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1: ****
2: Constructor Function and Procedure List of maxbox 3.9.9.101
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: 23336960 V3.9.9.101 Nov 2014 To EKON/BASTA/JAX/IBZ/SWS/EU/DT/PASCON
10: *****Now the Funclist*****
11: Funclist Function : 13685 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 8396 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1372 //995 //
16: def head:max: maxbox7: 24.10.2014 09:11:55
17: file E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt
18: doc file: maxbox_extract_funclist399_.txt (sort function list)
19: -----
20: Funclist total Size all is: 23452! Constructor, Function and Procedure
21: AExtract of EXE Functions of maxbox3.exe, locs of file = 23850
22: ASize of EXE: 23336960 (22041600) (16586240) (13511680)
23: SHA1 Hash of maxbox 3.9.9.101: 786FA3035226AC3F62F6B9E2E2B94C1D659297
24:
25: -----
26: -----
27: //////////////////////////////////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: Function *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: Function ( Index: Longint): Integer
34: function (Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: Function _CheckAutoResult( ResultCode: HResult) : HResult
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: Function Abs(e : Extended) : Extended;
39: Function Ackermann( const A, B : Integer) : Integer
40: Function AcquireLayoutLock : Boolean
41: Function ActionByName( const AName : string) : TWebActionItem
42: Function ACTIVEBUFFER : PCHAR
43: Function Add : TAggregate
44: function Add : TCollectionItem
45: Function Add : TColumn
46: Function Add : TComboExItem
47: Function Add : TCookie
48: Function Add : TCoolBand
49: Function Add : TFavoriteLinkItem
50: Function Add : TFileTypeItem
51: Function Add : THeaderSection
52: Function Add : THTMLTableColumn
53: Function Add : TIdEmailAddressItem
54: Function Add : TIdMessagePart
55: Function Add : TIdUserAccount
56: Function Add : TListColumn
57: Function Add : TListItem
58: Function Add : TStatusPanel
59: Function Add : TTaskDialogBaseButtonItem
60: Function Add : TWebActionItem
61: Function Add : TWorkArea
62: Function Add( AClass : TClass) : Integer
63: Function Add( AComponent : TComponent) : Integer
64: Function Add( AItem, AData : Integer) : Integer
65: Function Add( AItem, AData : Pointer) : Pointer
66: Function Add( AItem, AData : TObject) : TObject
67: Function Add( AObject : TObject) : Integer
68: Function Add( const Access, Count : Cardinal; const Offset : Int64) : Integer
69: Function Add( const S : WideString) : Integer
70: Function Add( Image, Mask : TBitmap) : Integer
71: Function Add( Index : LongInt; const Text : string) : LongInt
72: Function Add( Sibling : TTreeNode; const S : string) : TTreeNode
73: Function Add(const S: string): Integer
74: function Add(S: string): Integer;
75: Function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address: Pointer) : Integer
76: Function ADDCHILD : TFIELDDEF
77: Function AddChild( Index : LongInt; const Text : string) : LongInt
78: Function AddChild( Parent : TTreeNode; const S : string) : TTreeNode
79: Function AddChildFirst( Parent : TTreeNode; const S : string) : TTreeNode
80: Function AddChildObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
81: Function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
82: Function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
83: Function ADDFIELDDEF : TFIELDDEF
84: Function AddFileExtIfNecessary( AFileName, AExt : string) : string
85: Function AddFirst( Sibling : TTreeNode; const S : string) : TTreeNode
86: Function AddIcon( Image : TIcon) : Integer
87: Function AddImage( Value : TCustomImageList; Index : Integer) : Integer
88: Function ADDINDEXDEF : TINDEXDEF
89: Function AddItem(const Caption:String;const ImageIdx,SelectImageIdx,OverlayImagIdx,
    Indent:Int;Data:Ptr):TComboExItem

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

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179: Function ApplyUpdates( const Delta: OleVariant; MaxErrors: Integer; out ErrorCount: Integer): OleVariant;
180: Function ApplyUpdates( const Delta: OleVariant; MaxErrors: Integer; out ErrorCount: Integer) : OleVariant;
181: Function ApplyUpdates( MaxErrors : Integer) : Integer;
182: Function ApplyUpdates1( const Delta: OleVar; MaxErrs: Int; out ErrCount: Int; var OwnerData: OleVar): OleVariant;
183: Function ArcCos( const X : Extended) : Extended;
184: Function ArcCosh( const X : Extended) : Extended;
185: Function ArcCot( const X : Extended) : Extended;
186: Function ArcCoth( const X : Extended) : Extended;
187: Function ArcCsc( const X : Extended) : Extended;
188: Function ArcCsch( const X : Extended) : Extended;
189: Function ArcSec( const X : Extended) : Extended;
190: Function ArcSech( const X : Extended) : Extended;
191: Function ArcSin( const X : Extended) : Extended;
192: Function ArcSinh( const X : Extended) : Extended;
193: Function ArcTan( const X : Extended) : Extended;
194: Function ArcTan2( const Y, X : Extended) : Extended;
195: Function ArithmeticMean( const X : TDynDoubleArray) : Float;
196: function ArrayLength: integer;
197: Function AsHex( const AValue : T4x4LongWordRecord) : string;
198: Function AsHex( const AValue : T5x4LongWordRecord) : string;
199: Function ASNDeclen( var Start : Integer; const Buffer : string) : Integer;
200: Function ASNDecOIDItem( var Start : Integer; const Buffer : string) : Integer;
201: Function ASNEncInt( Value : Integer) : string;
202: Function ASNEncLen( Len : Integer) : string;
203: Function ASNEncOIDItem( Value : Integer) : string;
204: Function ASNEncUInt( Value : Integer) : string;
205: Function ASNItem( var Start : Integer; const Buffer : string; var ValueType : Integer) : string;
206: Function ASNObject( const Data : string; ASNType : Integer) : string;
207: Function Assigned( : Longint): Boolean;
208: Function AspectRatio(aWidth, aHeight: Integer): String;
209: Function AsWideString( Field : TField) : WideString;
210: Function AtLeast( ACount : Integer) : Boolean;
211: Function AttemptToUseSharedMemoryManager : Boolean;
212: Function Authenticate : Boolean;
213: Function AuthenticateUser( const AUusername, APassword : String) : Boolean;
214: Function Authentication : String;
215: Function BatchMove( ASource : 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 : TIddBytes; const AIIndex : Integer) : Cardinal
283: Function BytesToChar( const AValue : TIddBytes; const AIIndex : Integer) : Char
284: Function BytesToInt64( const AValue : TIddBytes; const AIIndex : Integer) : Int64
285: Function BytesToInteger( const AValue : TIddBytes; const AIIndex : Integer) : Integer
286: Function BytesToIPv6( const AValue : TIddBytes; const AIIndex : Integer) : TIidIpv6Address
287: Function BytesToShort( const AValue : TIddBytes; const AIIndex : Integer) : Short
288: Function BytesToString(ABytes:TIdBytes; AstartIndex:Integer; AMaxCount:Integer): string;
289: Function BytesToStr(const Value : TBytes): String;
290: Function BytesToWord( const AValue : TIddBytes; const AIIndex : Integer) : Word
291: Function ByteToBin(Int: Byte): String;
292: Function ByteToCharIndex( S : string; Index : Integer) : Integer
293: function ByteToCharIndex(const S: string; Index: Integer): Integer
294: Function ByteToCharLen( S : string; MaxLen : Integer) : Integer
295: function ByteToCharLen(const S: string; MaxLen: Integer): Integer
296: Function ByteToHex( const AByte : Byte) : string
297: Function ByteToOctal( const AByte : Byte) : string
298: Function ByteType( S : string; Index : Integer) : TMbcsByteType
299: function ByteType(const S: string; Index: Integer): TMbcsByteType)
300: Function CalctitleRect( Col : TColumn; ARow : Integer; var MasterCol : TColumn) : TRect
301: Function CalculateDFAFingerprint( oStates : TList) : integer
302: function CallTerminateProcs: Boolean)
303: function CANFOCUS:BOOLEAN
304: Function CanLoad( const Ext : string) : Boolean
305: Function CanParse( AWebRequest : TWebRequest) : Boolean
306: Function CanSave( const Ext : string) : Boolean
307: Function CanStart( cChar : char) : boolean
308: Function CaptureScreen : TBitmap;
309: Function CaptureScreen1( Rec : TRect) : TBitmap;
310: Function CardinalToFourChar( ACARDINAL : LongWord) : string
311: Function CastSoapToNative(Info: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 CheckCom(AComNumber: Integer): Integer;');
351: Function CheckLPT1: string;');
352: function ChrA(const a: byte): char;
353: Function ClassIDToProgID(const ClassID: TGUID): string;
354: Function ClassNameIs(const Name: string): Boolean
355: Function ClearBit( const Value : Byte; const Bit : TBitRange) : Byte;
356: Function ClearBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;

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

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

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524: Function CreateTwoColorsBrushPattern( Color1, Color2 : TColor ) : TBitmap
525: Function CreateValueBuffer( Length : Integer ) : TValueBuffer
526: Function CreateHexDump( AOwner : TWinControl ) : THexDump
527: Function Csc( const X : Extended ) : Extended
528: Function CscH( const X : Extended ) : Extended
529: function currencyDecimals: Byte
530: function currencyFormat: Byte
531: function currencyString: String
532: Function CurrentProcessId : TIdPID
533: Function CurrentReadBuffer : string
534: Function CurrentThreadId : TIdPID
535: Function CurrentYear : Word
536: Function CurrToBCD(const Curr: Currency; var BCD: TBcd; Precision: Integer; Decimals: Integer): Boolean
537: Function CurrToStr( Value : Currency ) : string;
538: Function CurrToStrF( Value : Currency; FormatSettings : TFormatSettings; Digits: Integer ) : string;
539: Function CurrToStrFS(Value:Currency;Format:TFloatFormat;Digits:Int;const
  FormatSettings:TFormatSettings):string;
540: function CursorToIdent(cursor: Longint; var Ident: string): Boolean;
541: function CursorToString(cursor: TCursor): string;
542: Function CustomSort( SortProc : TLVCompare; lParam : Longint ) : Boolean
543: Function CustomSort( SortProc : TTVCompare; Data : Longint; ARecurse : Boolean ) : Boolean
544: Function CycleToDeg( const Cycles : Extended ) : Extended
545: Function CycleToGrad( const Cycles : Extended ) : Extended
546: Function CycleToRad( const Cycles : Extended ) : Extended
547: Function D2H( N : Longint; A : Byte ) : string
548: Function DarkColor( const Color : TColor; const Pct : Single ) : TColor
549: Function DarkColorChannel( const Channel : Byte; const Pct : Single ) : Byte
550: Function DataLinkDir : string
551: Function DataRequest( Data : OleVariant ) : OleVariant
552: Function DataRequest( Input : OleVariant ) : OleVariant
553: Function DataToRawColumn( ACol : Integer ) : Integer
554: Function Date : TDateTime
555: function Date: TDateTime;
556: Function DateIsNull( const pdtValue : TDateTime; const pdtKind : TdtKind ) : Boolean
557: Function DateOf( const AValue : TDateTime ) : TDateTime
558: function DateSeparator: char;
559: Function DateTimeGMTToHttpStr( const GMTValue : TDateTime ) : String
560: Function DateTimeToFileDate( DateTime : TDateTime ) : Integer
561: function DateTimeToFileDate(DateTime: TDateTime): Integer;
562: Function DateTimeToGmtOffsetStr( ADateTime : TDateTime; SubGMT : Boolean ) : string
563: Function DateTimeToInternetStr( const Value : TDateTime; const AIsGMT : Boolean ) : String
564: Function DateTimeToJulianDate( const AValue : TDateTime ) : Double
565: Function DateTimeToModifiedJulianDate( const AValue : TDateTime ) : Double
566: Function DateTimeToStr( DateTime : TDateTime ) : string;
567: Function DateTimeToStr2( DateTime : TDateTime; FormatSettings : TFormatSettings ) : string;
568: function DatetimeToTimeStamp(DateTime: TDateTime): TTimeStamp
569: Function DateToUnix( const AValue : TDateTime ) : Int64
570: function DateToUnix(D: TDateTime): Int64;
571: Function DateToStr( DateTime : TDateTime ) : string;
572: function DateToStr(const DateTime: TDateTime): string;
573: function DateToStr(D: TDateTime): string;
574: Function DateToStr2( DateTime : TDateTime; FormatSettings : TFormatSettings ) : string;
575: Function DayOf( const AValue : TDateTime ) : Word
576: Function DayOfTheMonth( const AValue : TDateTime ) : Word
577: function DayOfTheMonth(const AValue: TDateTime): Word;
578: Function DayOfTheWeek( const AValue : TDateTime ) : Word
579: Function DayOfTheYear( const AValue : TDateTime ) : Word
580: function DayOfTheYear(const AValue: TDateTime): Word;
581: Function DayOfWeek( DateTime : TDateTime ) : Word
582: function DayOfWeek(const DateTime: TDateTime): Word;
583: Function DayOfWeekStr( DateTime : TDateTime ) : string
584: Function DaysBetween( const ANow, AThen : TDateTime ) : Integer
585: Function DaysInAMonth( const AYear, AMonth : Word ) : Word
586: Function DaysInAYear( const AYear : Word ) : Word
587: Function DaysInMonth( const AValue : TDateTime ) : Word
588: Function DaysInYear( const AValue : TDateTime ) : Word
589: Function DaySpan( const ANow, AThen : TDateTime ) : Double
590: Function DBUseRightToLeftAlignment( AControl : TControl; AField : TField ) : Boolean
591: function DecimalSeparator: char;
592: Function DecLimit( var B : Byte; const Limit : Byte; const Decr : Byte ) : Byte;
593: Function DecLimit1( var B : Shortint; const Limit : Shortint; const Decr : Shortint ) : Shortint;
594: Function DecLimit2( var B : Smallint; const Limit : Smallint; const Decr : Smallint ) : Smallint;
595: Function DecLimit3( var B : Word; const Limit : Word; const Decr : Word ) : Word;
596: Function DecLimit4( var B : Integer; const Limit : Integer; const Decr : Integer ) : Integer;
597: Function DecLimit5( var B : Cardinal; const Limit : Cardinal; const Decr : Cardinal ) : Cardinal;
598: Function DecLimit6( var B : Int64; const Limit : Int64; const Decr : Int64 ) : Int64;
599: Function DecLimitClamp( var B : Byte; const Limit : Byte; const Decr : Byte ) : Byte;
600: Function DecLimitClamp1( var B : Shortint; const Limit : Shortint; const Decr : Shortint ) : Shortint;
601: Function DecLimitClamp2( var B : Smallint; const Limit : Smallint; const Decr : Smallint ) : Smallint;
602: Function DecLimitClamp3( var B : Word; const Limit : Word; const Decr : Word ) : Word;
603: Function DecLimitClamp4( var B : Integer; const Limit : Integer; const Decr : Integer ) : Integer;
604: Function DecLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Decr : Cardinal ) : Cardinal;
605: Function DecLimitClamp6( var B : Int64; const Limit : Int64; const Decr : Int64 ) : Int64;
606: Function DecodeDateFully( DateTime : TDateTime; var Year, Month, Day, DOW : Word ) : Boolean
607: Function DecodeSoundexInt( AValue : Integer ) : string
608: Function DecodeSoundexWord( AValue : Word ) : string
609: Function DefaultAlignment : TAlignment
610: Function DefaultCaption : string
611: Function DefaultColor : TColor

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612: Function DefaultFont : TFont
613: Function DefaultIMEMode : TIMEMode
614: Function DefaultIMEName : TIMEName
615: Function DefaultReadOnly : Boolean
616: Function DefaultWidth : Integer
617: Function DegMinSecToFloat( const Degs, Mins, Secs : Float ) : Float
618: Function DegToCycle( const Degrees : Extended ) : Extended
619: Function DegToGrad( const Degrees : Extended ) : Extended
620: Function DegToGrad( const Value : Extended ) : Extended;
621: Function DegToGrad1( const Value : Double ) : Double;
622: Function DegToGrad2( const Value : Single ) : Single;
623: Function DegToRad( const Degrees : Extended ) : Extended
624: Function DegToRad( const Value : Extended ) : Extended;
625: Function DegToRad1( const Value : Double ) : Double;
626: Function DegToRad2( const Value : Single ) : Single;
627: Function DelChar( const pStr : string; const pchar : Char ) : string
628: Function DelEnvironmentVar( const Name : string ) : Boolean
629: Function Delete( const MsgNum : Integer ) : Boolean
630: Function DeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
631: Function DeleteFile( const FileName : string ) : boolean
632: Function DeleteFileEx( const FileName : string; Flags : FILEOP_FLAGS ) : Boolean
633: Function DelimiterPosn( const sString : string; const sDelimiters: string) : integer;
634: Function DelimiterPosn( const sString:string;const sDelimiters:string;out cDelimiter: char ) : integer;
635: Function DelSpace( const pStr : string ) : string
636: Function DelString( const pStr, pDelStr : string ) : string
637: Function DelTree( const Path : string ) : Boolean
638: Function Depth : Integer
639: Function Description : string
640: Function DescriptionsAvailable : Boolean
641: Function DescriptionToConvFamily( const ADescription : string; out AFamily : TConvFamily ) : Boolean
642: Function DescriptionToConvType( const ADescription : string; out AType : TConvType ) : Boolean;
643: Function DescriptionToConvTypeL( const AFamil:TConvFamily;const ADescr:string;out ATypr:TConvType):Boolean;
644: Function DetectUTF8Encoding( const s : UTF8String ) : TEncodeType
645: Function DialogsToPixelsX( const Dialogs : Word ) : Word
646: Function DialogsToPixelsY( const Dialogs : Word ) : Word
647: Function Digits( const X : Cardinal ) : Integer
648: Function DirectoryExists( const Name : string ) : Boolean
649: Function DirectoryExists( Directory : string ) : Boolean
650: Function DiskFree( Drive : Byte ) : Int64
651: function DiskFree(Drive: Byte): Int64)
652: Function DiskInDrive( Drive : Char ) : Boolean
653: Function DiskSize( Drive : Byte ) : Int64
654: function DiskSize(Drive: Byte): Int64)
655: Function DISPATCHCOMMAND( ACOMMAND : WORD ) : BOOLEAN
656: Function DispatchEnabled : Boolean
657: Function DispatchMask : TMask
658: Function DispatchMethodType : TMethodType
659: Function DISPATCHPOPUP( AHANDLE : HMENU ) : BOOLEAN
660: Function DispatchRequest( Sender : TObject; Request : TWebRequest; Response : TWebResponse ) : Boolean
661: Function DisplayCase( const S : String ) : String
662: Function DisplayRect( Code : TDisplayCode ) : TRect
663: Function DisplayRect( TextOnly : Boolean ) : TRect
664: Function DisplayStream( Stream : TStream ) : string
665: TBufferCoord', 'record Char : integer; Line : integer; end
666: TDisplayCoord', 'record Column : integer; Row : integer; end
667: Function DisplayCoord( AColumn, ARow : Integer ) : TDisplayCoord
668: Function BufferCoord( AChar, ALine : Integer ) : TBufferCoord
669: Function DomainName( const AHost : String ) : String
670: Function DownloadFile( SourceFile, DestFile : string ) : Boolean; //fast!
671: Function DownloadFileOpen( SourceFile, DestFile : string ) : Boolean; //open process
672: Function DosPathToUnixPath( const Path : string ) : string
673: Function DottedLineTo( const Canvas : TCanvas; const X, Y : Integer ) : Boolean;
674: Function DoubleDecliningBalance( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
675: Function DoubleToBcd( const AValue : Double ) : TBcd;
676: Function DoubleToHex( const D : Double ) : string
677: Function DoUpdates : Boolean
678: Function Dragging : Boolean;
679: Function DrawCaption( pl : HWND; p2 : HDC; const p3 : TRect; p4 : UINT ) : BOOL
680: Function DrawAnimatedRects( hwnd : HWND; idAni : Integer; const lprcFrom, lprcTo : TRect ) : BOOL
681: Function DrawEdge( hdc : HDC; var qrc : TRect; edge : UInt; grfFlags : UInt ) : BOOL
682: Function DrawFrameControl( DC : HDC; const Rect : TRect; uType, uState : UInt ) : BOOL
683: {Works like InputQuery but displays 2 edits. If PasswordChar <> #0, the second edit's PasswordChar is set}
684: Function DualInputQuery( const ACapt, Prpt1, Prpt2:string;var AVall,AVal2:string;PasswdChar:Char= #0):Bool;
685: Function DupeString( const AText : string; ACount : Integer ) : string
686: Function Edit : Boolean
687: Function EditCaption : Boolean
688: Function EditText : Boolean
689: Function EditFolderList( Folders : TStrings ) : Boolean
690: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
691: Function Elapsed( const Update : Boolean ) : Cardinal
692: Function EnableProcessPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
693: Function EnableThreadPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
694: Function EncodeDate( Year, Month, Day : Word ) : TDateTime
695: function EncodeDate(Year, Month, Day: Word): TDateTime;
696: Function EncodeDateDay( const AYear, ADayOfYear : Word ) : TDateTime
697: Function EncodeDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : TDateTime
698: Function EncodeDateTime( const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond : Word ) : TDateTime
699: Function EncodeDateWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
700: Function EncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word ) : TDateTime

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

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

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878: Function FindFirst2(const Path: string; Attr: Integer; var F: TSearchRec): Integer
879: Function FindNext2(var F: TSearchRec): Integer
880: procedure FindClose2(var F: TSearchRec)
881: Function FINDFIRST : BOOLEAN
882: TJvSpecialFolder = (sfRecycleBin, sfControlPanel, sfDesktop, sfDesktopDirectory,
883:   sfMyComputer, sfFonts, sfNetHood, sfNetwork, sfPersonal, sfPrinters, sfPrograms, sfRecent, sfSendTo,
884:   sfStartMenu, stStartUp, sfTemplates);
884: FFolder: array [TJvSpecialFolder] of Integer =
885:   (CSIDL_BITBUCKET, CSDL_CONTROLS, CSDL_DESKTOP, CSDL_DESKTOPDIRECTORY,
886:    CSDL_DRIVES, CSDL_FONTS, CSDL_NETHOOD, CSDL_NETWORK, CSDL_PERSONAL,
887:    CSDL_PRINTERS, CSDL_PROGRAMS, CSDL_RECENT, CSDL_SENDTO, CSDL_STARTMENU,
888:    CSDL_STARTUP, CSDL_TEMPLATES);
889: Function FindFilesDlg(StartIn: string; SpecialFolder: TJvSpecialFolder; UseFolder: Boolean): Boolean;
890: function Findfirst(const filepath: string; attr: integer): integer;
891: function Findfirst2(const Path: string; Attr: Integer; var F: TSearchRec): Integer
892: Function FindFirstNotOf( AFind, AText : String) : Integer
893: Function FindFirstOf( AFind, AText : String) : Integer
894: Function FindImmediateTransitionOn( cChar : char) : TniRegularExpressionState
895: Function FINDINDEXFORFIELDS( const FIELDS : String) : TINDEXDEF
896: Function FindInstanceOf( AClass : TClass; AExact: Boolean; AStartAt : Integer) : Integer
897: Function FINDITEM( VALUE : INTEGER; KIND : TFINDITEMKIND) : TMENUITEM
898: function FindItemId( Id : Integer) : TCollectionItem
899: Function FindKey( const KeyValues : array of const) : Boolean
900: Function FINDLAST : BOOLEAN
901: Function FindLineControl( ComponentType, ControlType : DWORD) : TJclMixerLineControl
902: Function FindModuleClass( AClass : TComponentClass) : TComponent
903: Function FindModuleName( const AClass : string) : TComponent
904: Function FINDNEXT : BOOLEAN
905: function FindNext: integer;
906: function FindNext2(var F: TSearchRec): Integer
907: Function FindNextPage( CurPage: TTabSheet; GoForward, CheckTabVisible : Boolean) : TTabSheet
908: Function FindNextToSelect : TTreeNode
909: Function FINDPARAM( const VALUE : String) : TPARAM
910: Function FindParam( const Value : WideString) : TParameter
911: Function FINDPRIOR : BOOLEAN
912: Function FindResource( ModuleHandle : HMODULE; ResourceName, ResourceType : PChar) : TResourceHandle
913: Function FindSession( const SessionName : string) : TSession
914: function FindStringResource(Ident: Integer): string
915: Function FindText( const SearchStr:string;StartPos,Length: Integer; Options: TSearchTypes):Integer
916: Function FindUnusedFileName( const FileName, FileExt, Suffix : AnsiString) : AnsiString
917: function FindVCLWindow(const Pos: TPoint): TwinControl;
918: function FindWindow(C1, C2: PChar): Longint;
919: Function FindinPaths(const fileName,paths: String): String;
920: Function Finger : String
921: Function First : TClass
922: Function First : TComponent
923: Function First : TObject
924: Function FirstDelimiter( const delimiters : string; const Str : String) : integer;
925: Function FirstDelimiter1( const delimiters : WideString; const Str : WideString) : integer;
926: Function FirstInstance( const ATitle : string) : Boolean
927: Function FloatPoint( const X, Y : Float) : TFloatPoint;
928: Function FloatPoint1( const P : TPoint) : TFloatPoint;
929: Function FloatPtInRect( const Rect : TFloatRect; const P : TFloatPoint) : Boolean
930: Function FloatRect( const ALeft, ATop, ARight, ABottom : Double) : TFloatRect;
931: Function FloatRect1( const Rect : TRect) : TFloatRect;
932: Function FloatsEqual( const X, Y : Float) : Boolean
933: Function FloatToBin(const D: Double): string; //doubletohex -> hextobin! in buffer
934: Function FloatToCurr( Value : Extended) : Currency
935: Function FloatToDateTIme( Value : Extended) : TDateTIme
936: Function FloatToStr( Value : Extended) : string;
937: Function FloatToStr(e : Extended) : String;
938: Function FloatToStrF( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer) : string;
939: function FloatToStrF(Value: Extended; Format: TFloatFormat;Precision:Integer; Digits: Integer): string)
940: Function FloatToStr2( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer; FormatSettings : TFormatSettings) : string;
941: Function FloatToStrFS( Value : Extended; Format : TFloatFormat; Precision, Digits : Integer; FormatSettings : TFormatSettings) : string;
942: function FloatToText(BufferArg: PChar; const Value: Extended; ValueType: TFloatValue;Format: TFloatFormat; Precision,Digits: Integer)
943: Function Floor( const X : Extended) : Integer
944: Function FloorInt( Value : Integer; StepSize : Integer) : Integer
945: Function FloorJ( const X : Extended) : Integer
946: Function Flush( const Count : Cardinal) : Boolean
947: Function Flush(var t: Text): Integer
948: function FmtLoadStr(Ident: Integer; const Args: array of const): string
949: function FOCUSED:BOOLEAN
950: Function ForceBackslash( const PathName : string) : string
951: Function ForceDirectories( const Dir : string) : Boolean
952: Function ForceDirectories( Dir : string) : Boolean
953: Function ForceDirectories( Name : string) : Boolean
954: Function ForceInBox( const Point : TPoint; const Box : TRect) : TPoint
955: Function ForceInRange( A, Min, Max : Integer) : Integer
956: Function ForceInRangeR( const A, Min, Max : Double) : Double
957: Function ForEach( AProc : TBucketProc; AInfo : Pointer) : Boolean;
958: Function ForEach1( AEvent : TBucketEvent) : Boolean;
959: Function ForegroundTask: Boolean
960: function Format(const Format: string; const Args: array of const): string;
961: Function FormatBcd( const Format : string; Bcd : TBcd) : string
962: FUNCTION FormatBigInt(s: string): STRING;

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

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1050: Function GetComPorts: TStringlist;
1051: Function GetCommonAppdataFolder : string
1052: Function GetCommonDesktopdirectoryFolder : string
1053: Function GetCommonFavoritesFolder : string
1054: Function GetCommonFilesFolder : string
1055: Function GetCommonProgramsFolder : string
1056: Function GetCommonStartmenuFolder : string
1057: Function GetCommonStartupFolder : string
1058: Function GetComponent( Owner, Parent : TComponent ) : TComponent
1059: Function GetConnectionRegistryFile( DesignMode : Boolean ) : string
1060: Function GetCookiesFolder : string
1061: Function GetCPUSpeed( var CpuSpeed : TFreqInfo ) : Boolean
1062: Function GetCurrent : TFavoriteLinkItem
1063: Function GetCurrent : TlistItem
1064: Function GetCurrent : TTaskDialogBaseButtonItem
1065: Function GetCurrent : TToolButton
1066: Function GetCurrent : TTreeNode
1067: Function GetCurrent : WideString
1068: Function GetCurrentDir : string
1069: function GetCurrentDir: string)
1070: Function GetCurrentFolder : string
1071: Function GETCURRENTRECORD( BUFFER : PCHAR ) : BOOLEAN
1072: Function GetCurrentProcessId : TIdPID
1073: Function GetCurrentThreadHandle : THandle
1074: Function GetCurrentThreadId: LongWord; stdcall;
1075: Function GetCustomHeader( const Name : string ) : String
1076: Function GetDataItem( Value : Pointer ) : Longint
1077: Function GetDataLinkFiles( FileNames : TWideStrings; Directory : string ) : Integer;
1078: Function GetDataLinkFiles1( FileNames : TStrings; Directory : string ) : Integer;
1079: Function GETDATASIZE : INTEGER
1080: Function GetDC(hdwnd: HWND): HDC;
1081: Function GetDefaultFileExt( const MIMEType : string ) : string
1082: Function GetDefaults : Boolean
1083: Function GetDefaultSchemaName : WideString
1084: Function GetDefaultStreamLoader : IStreamLoader
1085: Function GetDesktopDirectoryFolder : string
1086: Function GetDesktopFolder : string
1087: Function GetDFAState( oStates : TList ) : TniRegularExpressionState
1088: Function GetDirectorySize( const Path : string ) : Int64
1089: Function GetDisplayWidth : Integer
1090: Function GetDLLVersion( const DLLName : string; var pdwMajor, pdwMinor : Integer ) : Boolean
1091: Function GetDomainName : string
1092: Function GetDriverRegistryFile( DesignMode : Boolean ) : string
1093: function GetDriveType(rootpath: pchar): cardinal;
1094: Function GetDriveTypeStr( const Drive : Char ) : string
1095: Function GetEnumerator : TFavoriteLinkItemsEnumerator
1096: Function GetEnumerator : TListItemsEnumerator
1097: Function GetEnumerator : TTaskDialogButtonsEnumerator
1098: Function GetEnumerator : TToolBarEnumerator
1099: Function GetEnumerator : TTreeNodesEnumerator
1100: Function GetEnumerator : TWideStringsEnumerator
1101: Function GetEnvVar( const VarName : string ) : string
1102: Function GetEnvironmentVar( const AVariableName : string ) : string
1103: Function GetEnvironmentVariable( const VarName : string ) : string
1104: Function GetEnvironmentVar( const Name : string; var Value : string; Expand : Boolean ) : Boolean
1105: Function GetEnvironmentVars( const Vars : TStrings; Expand : Boolean ) : Boolean
1106: Function getEnvironmentString: string;
1107: Function GetExceptionHandler : TObject
1108: Function GetFavoritesFolder : string
1109: Function GetFieldByName( const Name : string ) : string
1110: Function GetFieldInfo( const Origin : Widestring; var FieldInfo : TFieldInfo ) : Boolean
1111: Function GetFieldValue( ACol : Integer ) : string
1112: Function GetFileAgeCoherence( const FileName : string ) : Boolean
1113: Function GetFileCreation( const FileName : string ) : TFileTime
1114: Function GetFileCreationTime( const Filename : string ) : TDateTime
1115: Function GetFileInfo( const FileName : string ) : TSearchRec
1116: Function GetFileLastAccess( const FileName : string ) : TFileTime
1117: Function GetFileLastWrite( const FileName : string ) : TFileTime
1118: Function GetFileList(FileList: TStringlist; apath: string): TStringlist;
1119: Function GetFileList1(apath: string): TStringlist;
1120: Function GetFileMIMEType( const AFileName : string ) : string
1121: Function GetFileSize( const FileName : string ) : Int64
1122: Function GetFileVersion( AFileName : string ) : Cardinal
1123: Function GetFileVersion( const AFilename : string ) : Cardinal
1124: Function GetFileVersion2(Handle: Integer; x: Integer): Integer; stdcall;
1125: Function GetFileDate(aFile:string; aWithTime:Boolean):string;
1126: Function GetFileCount(adirmask: string): integer; //files count in directory!
1127: Function GetFilterData( Root : PExprNode ) : TExprData
1128: Function getFirstChild : TTreeNode
1129: Function getFirstChild : TTreeNode
1130: Function GetFirstDelimitedToken( const cDelim : char; const cStr : string ) : string
1131: Function GetFirstNode : TTreeNode
1132: Function GetFontsFolder : string
1133: Function GetFormulaValue( const Formula : string ) : Extended
1134: Function GetFreePageFileMemory : Integer
1135: Function GetFreePhysicalMemory : Integer
1136: Function GetFreeSystemResources( const ResourceType : TFreeSysResKind ) : Integer;
1137: Function GetFreeSystemResources1 : TFreeSystemResources;
1138: Function GetFreeVirtualMemory : Integer

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1139: Function GetFromClipboard : Boolean
1140: Function GetFullURI( const AOptionalFileds : TIdURIOptionalFieldsSet) : String
1141: Function GetGBitmap( Value : TBitmap) : TBitmap
1142: Function GetGMTDateByName( const AfileName : TIdFileName) : TDateTime
1143: Function GetGroupState( Level : Integer) : TGroupPosInds
1144: Function GetHandle : HWND
1145: Function GETHELPCONTEXT( VALUE : INTEGER; BYCOMMAND : BOOLEAN) : THELPCONTEXT
1146: function GetHexArray(ahexdig: THexArray): THexArray;
1147: Function GetHighLightColor( const Color : TColor; Luminance : Integer) : TColor
1148: function GetHINSTANCE: longword;
1149: Function GetHistoryFolder : string
1150: Function GetHitTestInfoAt( X, Y : Integer) : THitTests
1151: function getHMODULE: longword;
1152: Function GetHostNameBy( const AComputerName: String): String;
1153: Function GetHostName : string
1154: Function getHostIP: string;
1155: Function GetHotSpot : TPoint
1156: Function GetHueBitmap( Value : TBitmap) : TBitmap
1157: Function GetImageBitmap : HBITMAP
1158: Function GETIMAGELIST : TCUSTOMIMAGELIST
1159: Function GetIncome( const aNetto : Currency) : Currency
1160: Function GetIncome( const aNetto : Extended) : Extended
1161: Function GetIncome( const aNetto : Extended): Extended
1162: Function GetIncome( const aNetto : Extended) : Extended
1163: function GetIncome( const aNetto: Currency): Currency
1164: Function GetIncome2( const aNetto : Currency) : Currency
1165: Function GetIncome2( const aNetto : Currency): Currency
1166: Function getIndex_Attrs( tag : string; var idx : Integer; var Attrs : string) : string
1167: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : BOOLEAN) : TINDEXDEF
1168: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet) : TIndexDef
1169: Function GetInstRes(Instance:THandle;ResType:TResType;const
  Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor):Boolean;
1170: Function
  GetInstRes1(Instance:THandle;ResType:TResType;ResID:DWORD;Width:Int;LoadFlags:TLoadResources;MaskColor:TColor):Bool;
1171: Function GetIntelCacheDescription( const D : Byte) : string
1172: Function GetInteractiveUserName : string
1173: Function GetInternetCacheFolder : string
1174: Function GetInternetFormattedFileTimeStamp( const Afilename : String) : String
1175: Function GetIPAddress( const HostName : string) : string
1176: Function GetIP( const HostName : string) : string
1177: Function GetIPHostName(const AComputerName: String): String;
1178: Function GetIsAdmin: Boolean;
1179: Function GetItem( X, Y : Integer) : LongInt
1180: Function GetItemAt( X, Y : Integer) : TListItem
1181: Function GetItemHeight(Font: TFont): Integer;
1182: Function GetItemPath( Index : Integer) : string
1183: Function GetKeyFieldNames( List : TStrings) : Integer;
1184: Function GetKeyFieldNames1( List : TWideStrings) : Integer;
1185: Function GetKeyState( const VirtualKey : Cardinal) : Boolean
1186: Function GetLastChild : LongInt
1187: Function GetLastChild : TTreeNode
1188: Function GetLastDelimitedToken( const cDelim : char; const cStr : string) : string
1189: function GetLastError: Integer
1190: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1191: Function GetLinesCount(sFileName : String): Integer;
1192: Function GetLoader( Ext : string) : TBitmapLoader
1193: Function GetLoadFilter : string
1194: Function GetLocalComputerName : string
1195: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char) : Char
1196: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string) : string
1197: Function GetLocalUserName : string
1198: Function GetLoginUsername : WideString
1199: function getLongDayNames: string)
1200: Function GetLongHint(const hint: string): string
1201: function getLongMonthNames: string)
1202: Function GetMacAddresses( const Machine : string; const Addresses : TStrings) : Integer
1203: Function GetMainAppWndFromPid( PID : DWORD) : HWND
1204: Function GetMapX(C_form,apath: string; const Data: string): boolean; //c_form: [html/json/xml]
1205: //if GetMAPX('html',ExePath+'cologne2mapX.html','cathedral cologne') then
1206: Procedure GetGEOMap(C_form,apath: string; const Data: string);
1207: Function GetMapXGeoReverse(C_form: string; const lat,long: string): string;
1208: //if GetMapXGeoReverse('XML',topPath,'47.0397826','7.62914761277888') then
1209: Function GetGeoCode(C_form,apath: string; const data: string; sfile: boolean): string;
1210: Function GetMaskBitmap : HBITMAP
1211: Function GetMaxAppAddress : Integer
1212: Function GetMciErrorMessage( const MciErrNo : MCIERROR) : string
1213: Function GetMemoryLoad : Byte
1214: Function GetMIMEDefaultFileExt( const MIMEType : string) : TIdFileName
1215: Function GetMIMETypeFrom( const AFile : string) : string
1216: Function GetMIMETypeFromFile( const AFile : TIdFileName) : string
1217: Function GetMinAppAddress : Integer
1218: Function GetModule : TComponent
1219: Function GetModuleHandle( ModuleName : PChar) : HMODULE
1220: Function GetModuleName( Module : HMODULE) : string
1221: Function GetModulePath( const Module : HMODULE) : string
1222: Function GetModuleFileName(Module: Integer; Filename: PChar;Size: Integer): Integer; stdcall;
1223: Function GetMorseID(InChar : Char): Word;');
1224: Function GetMorseString2(InChar : Char): string;');
1225: Function GetMorseLine(dots: boolean): string;'); //whole table! {1 or dots}

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

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

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1400: Function GetWindowsTempFolder : string
1401: Function GetWindowsUserID : string
1402: Function GetWindowsVersion : TWindowsVersion
1403: Function GetWindowsVersionString : string
1404: Function GmtOffsetStrToDateTime( S : string) : TDateTime
1405: Function GMTToLocalDateTime( S : string) : TDateTime
1406: Function GotoKey : Boolean
1407: Function GradToCycle( const Grads : Extended) : Extended
1408: Function GradToDeg( const Grads : Extended) : Extended
1409: Function GradToDeg( const Value : Extended) : Extended;
1410: Function GradToDeg1( const Value : Double) : Double;
1411: Function GradToDeg2( const Value : Single) : Single;
1412: Function GradToRad( const Grads : Extended) : Extended
1413: Function GradToRad( const Value : Extended) : Extended;
1414: Function GradToRad1( const Value : Double) : Double;
1415: Function GradToRad2( const Value : Single) : Single;
1416: Function Gray32( const Intensity : Byte; const Alpha : Byte) : TColor32
1417: Function GreenComponent( const Color32 : TColor32) : Integer
1418: function GUIDToString(const GUID: TGUID): string
1419: Function HandleAllocated : Boolean
1420: function HandleAllocated: Boolean;
1421: Function HandleRequest : Boolean
1422: Function HandleRequest( Request : TWebRequest; Response : TWebResponse) : Boolean
1423: Function HarmonicMean( const X : TDynFloatArray) : Float
1424: Function HasAsParent( Value : TTreeNode) : Boolean
1425: Function HASCHILDDEFS : BOOLEAN
1426: Function HasCurValues : Boolean
1427: Function HasExtendCharacter( const s : UTF8String) : Boolean
1428: Function HasFormat( Format : Word) : Boolean
1429: Function HashValue( AStream : TStream) : T5x4LongWordRecord;
1430: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1431: Function HashValue(AStream: TStream): LongWord
1432: Function HashValue(AStream: TStream): Word
1433: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64) : T5x4LongWordRecord;
1434: Function HashValue1(AStream : TStream): T4x4LongWordRecord
1435: Function HashValue128( const ASrc: string): T4x4LongWordRecord;
1436: Function HashValue128Stream(AStream: TStream): T4x4LongWordRecord;
1437: Function HashValue16( const ASrc : string) : Word;
1438: Function HashValue16Stream( AStream : TStream) : Word;
1439: Function HashValue32( const ASrc : string) : LongWord;
1440: Function HashValue32Stream( AStream : TStream) : LongWord;
1441: Function HasMergeConflicts : Boolean
1442: Function hasMoreTokens : boolean
1443: Function HASPARENT : BOOLEAN
1444: function HasParent: Boolean
1445: Function HasTransaction( Transaction : TDBXTransaction) : Boolean
1446: Function HasUTF8BOM( S : TStream) : boolean;
1447: Function HasUTF8BOM1( S : AnsiString) : boolean;
1448: Function Haversine( X : Float) : Float
1449: Function Head( s : string; const subs : string; var tail : string) : string
1450: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN
1451: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN
1452: function HELPJUMP(JUMPID:STRING):BOOLEAN
1453: Function HeronianMean( const a, b : Float) : Float
1454: function HexToStr(Value: string): string;
1455: function HexToBin(Text,Buffer:PChar; BufSize:Integer):Integer;
1456: function HexToBin2(HexNum: string): string;
1457: Function HexToDouble( const Hex : string) : Double
1458: function HexToInt(hexnum: string): LongInt;
1459: function HexToStr(Value: string): string;
1460: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
1461: function Hi(vdat: word): byte;
1462: function HiByte(W: Word): Byte)
1463: function High: Int64;
1464: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean
1465: function HINSTANCE: longword;
1466: function HiWord(l: DWORD): Word)
1467: function HMODULE: longword;
1468: Function HourOf( const AValue : TDateTime) : Word
1469: Function HourOfTheDay( const AValue : TDateTime) : Word
1470: Function HourOfTheMonth( const AValue : TDateTime) : Word
1471: Function HourOfTheWeek( const AValue : TDateTime) : Word
1472: Function HourOfTheYear( const AValue : TDateTime) : Word
1473: Function HoursBetween( const ANow, AThen : TDateTime) : Int64
1474: Function HourSpan( const ANow, AThen : TDateTime) : Double
1475: Function HSLToRGB1( const H, S, L : Single) : TColor32;
1476: Function HTMLDecode( const AStr : String) : String
1477: Function HTMLEncode( const AStr : String) : String
1478: Function HTMLEscape( const Str : string) : string
1479: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer) : string
1480: Function HTTPDecode( const AStr : String) : string
1481: Function HTTPEncode( const AStr : String) : string
1482: Function Hypot( const X, Y : Extended) : Extended
1483: Function IBMax( n1, n2 : Integer) : Integer
1484: Function IBMin( n1, n2 : Integer) : Integer
1485: Function IBRandomString( iLength : Integer) : String
1486: Function IBRandomInteger( iLow, iHigh : Integer) : Integer
1487: Function IBStripString( st : String; CharsToStrip : String) : String
1488: Function IBFormatIdentifier( Dialect : Integer; Value : String) : String

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

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1578: Function IndexOfString( Alist : TStringList; Value : Variant) : Integer
1579: Function IndyCompareStr( const A1 : string; const A2 : string) : Integer
1580: Function IndyGetHostName : string
1581: Function IndyInterlockedDecrement( var I : Integer) : Integer
1582: Function IndyInterlockedExchange( var A : Integer; B : Integer) : Integer
1583: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer) : Integer
1584: Function IndyInterlockedIncrement( var I : Integer) : Integer
1585: Function IndyLowerCase( const A1 : string) : string
1586: Function IndyStrToBool( const AString : String) : Boolean
1587: Function IndyUpperCase( const A1 : string) : string
1588: Function InitCommonControl( CC : Integer) : Boolean
1589: Function InitTempPath : string
1590: Function InMainThread : boolean
1591: Function InOpArray( W : WideChar; sets : array of WideChar) : boolean
1592: Function Input : Text)
1593: Function InputBox( const ACaption, APrompt, ADefault : string) : string
1594: function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string
1595: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1596: Function InputQuery( const ACaption, APrompt : string; var Value : string) : Boolean
1597: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1598: Function InquireSignal( RtlSigNum : Integer) : TSignalState
1599: Function InRangeR( const A, Min, Max : Double) : Boolean
1600: function Insert( Index : Integer) : TCollectionItem
1601: Function Insert( Index : Integer) : TComboExItem
1602: Function Insert( Index : Integer) : THeaderSection
1603: Function Insert( Index : Integer) : TListItem
1604: Function Insert( Index : Integer) : TStatusPanel
1605: Function Insert( Index : Integer) : TWorkArea
1606: Function Insert( Index : LongInt; const Text : string) : LongInt
1607: Function Insert( Sibling : TTreeNode; const S : string) : TTreeNode
1608: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM) : INTEGER
1609: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM) : INTEGER
1610: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1611: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
1612: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1613: Function Instance : Longint
1614: function InstanceSize: Longint
1615: Function Int(e : Extended) : Extended;
1616: function Int64ToStr(i: Int64): String;
1617: Function IntegerToBcd( const AValue : Integer) : TBcd
1618: Function Intensity( const Color32 : TColor32) : Integer;
1619: Function Intensity( const R, G, B : Single) : Single;
1620: Function InterestPayment( const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
  FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1621: Function InterestRate(NPeriods:Integer;const Payment,PresVal,
  FutureVal:Extended;PaymentTime:TPaymentTime):Extended
1622: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1623: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1624: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1625: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1626: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1627: Function IntMibToStr( const Value : string) : string
1628: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1629: Function IntToBin( Value : cardinal) : string
1630: Function IntToHex( Value : Integer; Digits : Integer) : string;
1631: function IntToHex(a: integer; b: integer): string;
1632: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1633: function IntToHex64(Value: Int64; Digits: Integer): string)
1634: Function IntTo3Str( Value : Longint; separator: string) : string
1635: Function inttobool( aInt : LongInt) : Boolean
1636: function IntToStr(i: Int64): String;
1637: Function IntToStr64(Value: Int64): string)
1638: function IOResult: Integer
1639: Function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1640: Function IsAccel(VK: Word; const Str: string): Boolean
1641: Function IsAddressInNetwork( Address : String) : Boolean
1642: Function IsAdministrator : Boolean
1643: Function IsAlias( const Name : string) : Boolean
1644: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1645: Function IsASCII( const AByte : Byte) : Boolean;
1646: Function IsASCIILDH( const AByte : Byte) : Boolean;
1647: Function IsAssembly(const FileName: string): Boolean;
1648: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1649: Function IsBinary(const AChar : Char) : Boolean
1650: function IsConsole: Boolean)
1651: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1652: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1653: Function IsDelphiDesignMode : boolean
1654: Function IsDelphiRunning : boolean
1655: Function IsDFAState : boolean
1656: Function IsDirectory( const FileName : string) : Boolean
1657: Function IsDomain( const S : String) : Boolean
1658: function IsDragObject(Sender: TObject): Boolean;
1659: Function IsEditing : Boolean
1660: Function ISEMPYTY : BOOLEAN
1661: Function IsEqual( Value : TParameters) : Boolean
1662: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1663: function IsEqualGUID(const guid1, guid2: TGUID): Boolean)
1664: Function IsFirstNode : Boolean

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1665: Function IsFloatZero( const X : Float ) : Boolean
1666: Function IsFormatRegistered( Extension, AppID : string ) : Boolean
1667: Function IsFormOpen(const FormName: string): Boolean;
1668: Function IsFQDN( const S : String ) : Boolean
1669: Function IsGrayScale : Boolean
1670: Function IsHex( AChar : Char ) : Boolean;
1671: Function IsHexString(const AString: string): Boolean;
1672: Function IsHostname( const S : String ) : Boolean
1673: Function IsInfinite( const AValue : Double ) : Boolean
1674: Function IsInLeapYear( const AValue : TDateTime ) : Boolean
1675: Function IsInternet: boolean;
1676: Function IsLeadChar( ACh : Char ) : Boolean
1677: Function IsLeapYear( Year : Word ) : Boolean
1678: function IsLeapYear(Year: Word): Boolean
1679: function IsLibrary: Boolean)
1680: Function ISLINE : BOOLEAN
1681: Function IsLinkedTo( DataSet : TDataSet ) : Boolean
1682: Function ISLINKEDTO( DATA SOURCE : TDATASOURCE ) : BOOLEAN
1683: Function IsLiteralChar( const EditMask : string; Offset : Integer ) : Boolean
1684: Function IsMatch( const Pattern, Text : string ) : Boolean //Grep like RegEx
1685: Function IsMainAppWindow( Wnd : HWND ) : Boolean
1686: Function IsMediaPresentInDrive( Drive : Char ) : Boolean
1687: function IsMemoryManagerSet: Boolean)
1688: Function IsMultiTableQuery( const SQL : WideString ) : Boolean
1689: function IsMultiThread: Boolean)
1690: Function IsNumeric( AChar : Char ) : Boolean;
1691: Function IsNumeric2( const AString : string ) : Boolean;
1692: Function IsNTFS: Boolean;
1693: Function IsOctal( AChar : Char ) : Boolean;
1694: Function IsOctalString(const AString: string) : Boolean;
1695: Function IsPathDelimiter( S : string; Index : Integer ) : Boolean
1696: function IsPathDelimiter(const S: string; Index: Integer): Boolean
1697: Function IsPM( const AValue : TDateTime ) : Boolean
1698: Function IsPositiveFloatArray( const X : TDynFloatArray ) : Boolean
1699: Function IsPortAvailable( ComNum : Cardinal ) : Boolean');
1700: Function IsCompReal( ComNum : Cardinal ) : Boolean');
1701: Function IsCOM( ComNum : Cardinal ) : Boolean');
1702: Function IsCOMPort: Boolean');
1703: Function IsPrimeFactor( const F, N : Cardinal ) : Boolean
1704: Function IsPrimer( N : Cardinal ) : Boolean //rabin miller
1705: Function IsPrimerTD( N : Cardinal ) : Boolean //trial division
1706: Function IsPrivilegeEnabled( const Privilege : string ) : Boolean
1707: Function ISqrt( const I : Smallint ) : Smallint
1708: Function IsReadOnly(const Filename: string): boolean;
1709: Function IsRectEmpty( const Rect : TRect ) : Boolean
1710: function IsRectEmpty(const Rect: TRect): Boolean)
1711: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1712: Function ISRIGHTTOLEFT : BOOLEAN
1713: function IsRightToLeft: Boolean
1714: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1715: Function ISSEQUENCED : BOOLEAN
1716: Function IsSystemModule( const Module : HMODULE ) : Boolean
1717: Function IsSystemResourcesMeterPresent : Boolean
1718: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1719: Function IsToday( const AValue : TDateTime ) : Boolean
1720: function IsToday(const AValue: TDateTime): Boolean;
1721: Function IsTopDomain( const AStr : string ) : Boolean
1722: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1723: Function IsUTF8String( const s : UTF8String ) : Boolean
1724: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1725: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1726: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1727: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1728: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1729: Function IsValidDateTime(const AYear,AMonth, ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1730: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1731: Function IsValidIdent( Ident : string ) : Boolean
1732: function IsValidIdent1(const Ident: string; AllowDots: Boolean): Boolean)
1733: Function IsValidIP( const S : String ) : Boolean
1734: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1735: Function IsValidPNG(stream: TStream): Boolean;
1736: Function IsValidJPEG(stream: TStream): Boolean;
1737: Function IsValidISBN( const ISBN : AnsiString ) : Boolean
1738: Function IsVariantManagerSet: Boolean; //deprecated;
1739: Function IsVirtualPcGuest : Boolean;
1740: Function IsVmWareGuest : Boolean;
1741: Function IsVCLControl(Handle: HWnd): Boolean;
1742: Function IsWhiteString( const AStr : String ) : Boolean
1743: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1744: Function IsWoW64: boolean;
1745: Function IsWin64: boolean;
1746: Function IsWow64String(var s: string): Boolean;
1747: Function IsWin64String(var s: string): Boolean;
1748: Function IsWindowsVista: boolean;
1749: Function isPowerof2(num: int64): boolean;
1750: Function powerOf2(exponent: integer): int64;
1751: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1752: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1753: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;

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

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1842: Function MakeFile( const FileName: string): integer');
1843: function MakeLong(A, B: Word): Longint)
1844: Function MakeTempFilename( const APath : String) : string
1845: Function MakeValidFileName( const Str : string) : string
1846: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1847: function MakeWord(A, B: Byte): Word)
1848: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1849: Function MapDateTime( const DateFormatType:string; DateFormat:string; Value:string; ToCds:Boolean): string
1850: Function MapValues( Mapping : string; Value : string) : string
1851: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1852: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1853: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1854: Function MaskGetFldSeparator( const EditMask : string) : Integer
1855: Function MaskGetMaskBlank( const EditMask : string) : Char
1856: Function MaskGetMaskSave( const EditMask : string) : Boolean
1857: Function MaskInTillLiteralToChar( IChar : Char) : Char
1858: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1859: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1860: Function MaskString( Mask, Value : String) : String
1861: Function Match( const sString : string) : TniRegularExpressionMatchResult
1862: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1863: Function Matches( const Filename : string) : Boolean
1864: Function MatchesMask( const Filename, Mask : string) : Boolean
1865: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1866: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1867: Function Max( AValueOne, AValueTwo : Integer) : Integer
1868: function Max(const x,y: Integer): Integer;
1869: Function Max1( const B1, B2 : Shortint) : Shortint;
1870: Function Max2( const B1, B2 : Smallint) : Smallint;
1871: Function Max3( const B1, B2 : Word) : Word;
1872: function Max3(const x,y,z: Integer): Integer;
1873: Function Max4( const B1, B2 : Integer) : Integer;
1874: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1875: Function Max6( const B1, B2 : Int64) : Int64;
1876: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1877: Function MaxFloat( const X, Y : Float) : Float
1878: Function MaxFloatArray( const B : TDynFloatArray) : Float
1879: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1880: function MaxIntValue(const Data: array of Integer):Integer)
1881: Function MaxJ( const B1, B2 : Byte) : Byte;
1882: function MaxPath: string;
1883: function MaxValue(const Data: array of Double): Double)
1884: Function MaxCalc( const Formula : string) : Extended //math expression parser
1885: Procedure MaxCalcF( const Formula : string); //out to console memo2
1886: function MD5(const fileName: string): string;
1887: Function Mean( const Data : array of Double) : Extended
1888: Function Median( const X : TDynFloatArray) : Float
1889: Function Memory : Pointer
1890: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1891: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1892: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1893: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1894: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1895: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
  Y:Integer):Integer;
1896: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
1897: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string) : Integer;
1898: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn) : Integer;
1899: Function MibToId( Mib : string) : string
1900: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer) : AnsiString;
1901: Function MidStr( const AText : WideString; const AStart, ACount : Integer) : WideString;
1902: Function microsecondsToCentimeters(msseconds: longint): longint; //340m/s speed of sound
1903: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64
1904: Function MIDIOut( DeviceID : Cardinal) : IJclMIDIOut
1905: Procedure GetMidiOutputs( const List : TStrings)
1906: // GetGEOMAPX('html',ExePath+'cologne2mapX.html','cathedral_cologne')
1907: Procedure GetGEOMap(C_form,apath: string; const Data: string); //c_form: [html/json/xml]
1908: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single) : TSsingleNoteTuningData
1909: Function MIDINoteToStr( Note : TMIDINote) : string
1910: Function WinMidiOut( DeviceID : Cardinal) : IJclWinMidiOut
1911: Procedure GetMidiOutputs( const List : TStrings)
1912: Procedure MidiOutCheck( Code : MMResult)
1913: Procedure MidiInCheck( Code : MMResult)
1914: Function MillisecondOf( const AValue : TDateTime) : Word
1915: Function MillisecondOfTheDay( const AValue : TDateTime) : LongWord
1916: Function MillisecondOfTheHour( const AValue : TDateTime) : LongWord
1917: Function MillisecondOfTheMinute( const AValue : TDateTime) : LongWord
1918: Function MillisecondOfTheMonth( const AValue : TDateTime) : LongWord
1919: Function MillisecondOfTheSecond( const AValue : TDateTime) : Word
1920: Function MillisecondOfTheWeek( const AValue : TDateTime) : LongWord
1921: Function MillisecondOfTheYear( const AValue : TDateTime) : Int64
1922: Function MillisecondsBetween( const ANow, AThen : TDateTime) : Int64
1923: Function MillisecondSpan( const ANow, AThen : TDateTime) : Double
1924: Function milliToDateTIme( Millisecond : LongInt) : TDateTime';
1925: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean) : Int64

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1926: Function millis: int64;
1927: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1928: Function Min1( const B1, B2 : Shortint ) : Shortint;
1929: Function Min2( const B1, B2 : Smallint ) : Smallint;
1930: Function Min3( const B1, B2 : Word ) : Word;
1931: Function Min4( const B1, B2 : Integer ) : Integer;
1932: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1933: Function Min6( const B1, B2 : Int64 ) : Int64;
1934: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1935: Function MinClientRect : TRect;
1936: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1937: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1938: Function MinFloat( const X, Y : Float ) : Float
1939: Function MinFloatArray( const B : TDynFloatArray ) : Float
1940: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1941: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1942: Function MinimizeName( const FileName : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1943: function MinimizeName( const Filename : String; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1944: Function MinIntValue( const Data : array of Integer ) : Integer
1945: function MinIntValue( const Data : array of Integer ) : Integer
1946: Function MinJ( const B1, B2 : Byte ) : Byte;
1947: Function MinuteOf( const AValue : TDateTime ) : Word
1948: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1949: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1950: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1951: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1952: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1953: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1954: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1955: Function MinValue( const Data : array of Double ) : Double
1956: function MinValue( const Data : array of Double ) : Double
1957: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1958: Function MMCheck( const MciError : MCIERROR; const Msg : string ) : MCIERROR
1959: Function ModFloat( const X, Y : Float ) : Float
1960: Function ModifiedJulianDateToDateTime( const AValue : Double ) : TDateTime
1961: Function Modify( const Key : string; Value : Integer ) : Boolean
1962: Function ModuleCacheID : Cardinal
1963: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1964: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1965: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1966: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1967: Function MonthOf( const AValue : TDateTime ) : Word
1968: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1969: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1970: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1971: Function MonthStr( DateTime : TDateTime ) : string
1972: Function MouseCoord( X, Y : Integer ) : TGridCoord
1973: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER
1974: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1975: Function MoveNext : Boolean
1976: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1977: function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1978: Function Name : string
1979: Function NetPresentValue( const Rate : Extended; const CashFlows : array of
    Double; PaymentTime : TPaymentTime ) : Extended
1980: function NetworkVolume( DriveChar : Char ) : string
1981: Function NEWBOTOMLINE : INTEGER
1982: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant ) : PExprNode
1983: Function NEWITEM( const ACAPTION : String; ASHORTCUT : TSHORCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNOTIFYEVENT; HCTX : WORD; const ANAME : String ) : TMENUITEM
1984: Function NEWLINE : TMENUITEM
1985: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1986: Function NewNode( Kind : TExprNodeKind; Operator : TCANOperator; const Data : Variant; Left, Right : PExprNode ) : PExprNode
1987: Function NEWPOPUPMENU( OWNER : TCOMPONENT; const ANAME : String; ALIGNMENT : TPOPUPALIGNMENT; AUTOPOPUP : BOOLEAN; const ITEMS : array of TCMENUITEM ) : TPOPUPMENU
1988: Function NewState( eType : ThRegularExpressionStateType ) : ThRegularExpressionState
1989: Function NEWSUBMENU( const ACAPT : String; HCTX : WORD; const ANAME : String; ITEMS : array of
    TMenuItem; AENABLED : Boolean ) : TMENUITEM
1990: Function NEWTOPLINE : INTEGER
1991: Function Next : TIdAuthWhatsNext
1992: Function NextCharIndex( S : String; Index : Integer ) : Integer
1993: Function NextRecordSet : TCustomSQLDataSet
1994: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1995: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLEToken ) : TSQLEToken;
1996: Function NextToken : Char
1997: Function nextToken : WideString
1998: function NextToken : Char
1999: Function Norm( const Data : array of Double ) : Extended
2000: Function NormalizeAngle( const Angle : Extended ) : Extended
2001: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
2002: Function NormalizeRect( const Rect : TRect ) : TRect
2003: function NormalizeRect( const Rect : TRect ) : TRect;
2004: Function Now : TDateTime
2005: function Now2 : TDateTime
2006: Function NumProcessThreads : integer
2007: Function NumThreadCount : integer
2008: Function NthDayOfWeek( const AValue : TDateTime ) : Word
2009: Function NtProductType : TNTProductType

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2010: Function NtProductTypeString : string
2011: function Null: Variant;
2012: Function NullPoint : TPoint
2013: Function NullRect : TRect
2014: Function Null2Blank(aString:String):String;
2015: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue : Extended; PaymentTime : TPaymentTime ) : Extended
2016: Function NumIP : integer
2017: function Odd(x: Longint): boolean;
2018: Function OffsetFromUTC : TDateTime
2019: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
2020: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
2021: function OffsetRect(var Rect : TRect; DX:Integer; DY:Integer): Boolean
2022: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
2023: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
2024: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
2025: Function OldCurrToBCD(const Curr:Currency; var BCD:TBCd; Precision:Integer;Decimals:Integer): Boolean
2026: function OpenBit:Integer
2027: Function OpenDatabase : TDatabase
2028: Function OpenDatabase( const DatabaseName : string ) : TDatabase
2029: Procedure OpenDir(adir: string);
2030: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
2031: Function OpenMap(const Data: string): boolean;
2032: Function OpenMapX(const Data: string): boolean;
2033: Function OpenObject( Value : PChar ) : Boolean;
2034: Function OpenObject1( Value : string ) : Boolean;
2035: Function OpenSession( const SessionName : string ) : TSession
2036: Function OpenVolume( const Drive : Char ) : THandle
2037: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte) : Cardinal
2038: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
2039: Function OrdToBinary( const Value : Byte ) : string;
2040: Function OrdToBinary1( const Value : Shortint ) : string;
2041: Function OrdToBinary2( const Value : Smallint ) : string;
2042: Function OrdToBinary3( const Value : Word ) : string;
2043: Function OrdToBinary4( const Value : Integer ) : string;
2044: Function OrdToBinary5( const Value : Cardinal ) : string;
2045: Function OrdToBinary6( const Value : Int64 ) : string;
2046: Function OSCheck( RetVal : Boolean ) : Boolean
2047: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
2048: Function OSIdentToString( const OSIdent : DWORD ) : string
2049: Function Output: Text)
2050: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2051: Function Owner : TCustomListView
2052: function Owner : TPersistent
2053: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2054: Function PadL( pStr : String; plTh : integer ) : String
2055: Function Padl(s : AnyString;I : longInt) : AnyString;
2056: Function PadLCh( pStr : String; plTh : integer; pChr : char ) : String
2057: Function PadR( pStr : String; plTh : integer ) : String
2058: Function Padr(s : AnyString;I : longInt) : AnyString;
2059: Function PadRCh( pStr : String; plTh : integer; pChr : char ) : String
2060: Function PadString( const AString : String; const ALen : Integer; const AChar : Char ) : String
2061: Function Padz(s : AnyString;I : longInt) : AnyString;
2062: Function PaethPredictor( a, b, c : Byte ) : Byte
2063: Function PARAMBYNAME( const VALUE : String ) : TPARAM
2064: Function ParamByName( const Value : Widestring ) : TParameter
2065: Function ParamCount: Integer
2066: Function ParamsEncode( const ASrc : string ) : string
2067: function ParamStr(Index: Integer): string)
2068: Function ParseDate( const DateStr : string ) : TDateTime
2069: Function PARSESQL( SQL : String; DOCREATE : BOOLEAN ) : String
2070: Function ParseSQL( SQL : WideString; DoCreate : Boolean ) : WideString
2071: Function PathAddExtension( const Path, Extension : string ) : string
2072: Function PathAddSeparator( const Path : string ) : string
2073: Function PathAppend( const Path, Append : string ) : string
2074: Function PathBuildRoot( const Drive : Byte ) : string
2075: Function PathCanonicalize( const Path : string ) : string
2076: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2077: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer:CmpFmt:TCompactPath):string;
2078: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int:CmpFmt:TCompactPath):string;
2079: Function PathEncode( const ASrc : string ) : string
2080: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2081: Function PathExtractFileNameNoExt( const Path : string ) : string
2082: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2083: Function PathGetDepth( const Path : string ) : Integer
2084: Function PathGetLongName( const Path : string ) : string
2085: Function PathGetLongName2( Path : string ) : string
2086: Function PathGetShortName( const Path : string ) : string
2087: Function PathIsAbsolute( const Path : string ) : Boolean
2088: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2089: Function PathIsDiskDevice( const Path : string ) : Boolean
2090: Function PathIsUNC( const Path : string ) : Boolean
2091: Function PathRemoveExtension( const Path : string ) : string
2092: Function PathRemoveSeparator( const Path : string ) : string
2093: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2094: Function Peek : Pointer
2095: Function Peek : TObject
2096: function PERFORM(MSG:CARDINAL;WPARAM:LPARAM,LPARAM:LONGINT):LONGINT

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2097: Function PeriodPayment( const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
      Extended; PaymentTime : TPaymentTime ) : Extended
2098: function Permutation(npr, k: integer): extended;
2099: function PermutationInt(npr, k: integer): Int64;
2100: Function PermutationJ( N, R : Cardinal ) : Float
2101: Function Pi : Extended;
2102: Function PiE : Extended;
2103: Function PixelsToDialogsX( const Pixels : Word) : Word
2104: Function PixelsToDialogsY( const Pixels : Word) : Word
2105: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2106: Function Point( X, Y : Integer ) : TPoint
2107: function Point(X, Y: Integer): TPoint)
2108: Function PointAssign( const X, Y : Integer ) : TPoint
2109: Function PointDist( const P1, P2 : TPoint ) : Double;
2110: function PointDist(const P1,P2: TFloatPoint): Double;
2111: Function PointDist1( const P1, P2 : TFloatPoint ) : Double;
2112: function PointDist2(const P1,P2: TPoint): Double;
2113: Function PointEqual( const P1, P2 : TPoint ) : Boolean
2114: Function PointIsNull( const P : TPoint ) : Boolean
2115: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint ) : Double
2116: Function Poly( const X : Extended; const Coefficients : array of Double ) : Extended
2117: Function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;
2118: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2119: Function Pop : Pointer
2120: Function Pop : TObject
2121: Function PopnStdDev( const Data : array of Double ) : Extended
2122: Function PopnVariance( const Data : array of Double ) : Extended
2123: Function PopulationVariance( const X : TDynFloatArray ) : Float
2124: function Pos(SubStr, S: AnyString): Longint;
2125: Function PosEqual( const Rect : TRect ) : Boolean
2126: Function PosEx( const SubStr, S : string; Offset : Integer ) : Integer
2127: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt ) : Integer
2128: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2129: Function Post1( AURL : string; const ASource : TStrings ) : string;
2130: Function Post2( AURL : string; const ASource : TStream ) : string;
2131: Function Post3( AURL : string; const ASource : TIIdMultiPartFormDataStream ) : string;
2132: Function PostData( const UserData : WideString; const CheckSum : DWORD ) : Boolean
2133: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2134: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2135: Function Power( const Base, Exponent : Extended ) : Extended
2136: Function PowerBig(aval, n:integer): string;
2137: Function PowerIntJ( const X : Float; N : Integer ) : Float;
2138: Function PowerJ( const Base, Exponent : Float ) : Float;
2139: Function PowerOffOS : Boolean
2140: Function PreformatDateString( Ps : string ) : string
2141: Function PresentValue( const Rate:Extend;NPeriods:Int;const Payment,
      FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2142: Function PrimeFactors( N : Cardinal ) : TDynCardinalArray
2143: Function Printer : TPrinter
2144: Function ProcessPath2( const ABasePath:String; const APath: String; const APathDelim:string): string
2145: Function ProcessResponse : TIidHTTPWhatsNext
2146: Function ProduceContent : string
2147: Function ProduceContentFromStream( Stream : TStream ) : string
2148: Function ProduceContentFromString( const S : string ) : string
2149: Function ProgIDToClassID(const ProgID: string): TGUID;
2150: Function PromptDataLinkfile( ParentHandle : THandle; InitialFile : WideString ) : WideString
2151: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString ) : WideString
2152: Function PromptForFileName( var AFileName : string; const AFilter : string; const ADefaultExt : string;
      const ATitle : string; const AInitialDir : string; SaveDialog: Boolean ) : Boolean
2153: function PromptForFileName(var AFileName: string; const AFilter: string; const ADefaultExt: string;const
      ATitle: string; const AInitialDir: string; SaveDialog: Boolean): Boolean
2154: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FileName,Output:String):Boolean
2155: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2156: function PtInRect(const Rect : TRect; const P: TPoint): Boolean
2157: Function Push( AItem : Pointer ) : Pointer
2158: Function Push( AObject : TObject ) : TObject
2159: Function Put1( AURL : string; const ASource : TStream ) : string;
2160: Function Pythagoras( const X, Y : Extended ) : Extended
2161: Function queryDLLInterface( var queryList : TStringList ) : TStringList
2162: Function queryDLLInterfaceTwo( var queryList : TStringList ) : TStringList
2163: Function QueryInterface(const IID: TGUID; out Obj): HResult, CdStdCall
2164: Function queryPerformanceCounter2(mse: int64): int64;
2165: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2166: //Function QueryPerformanceFrequency(mse: int64): boolean;
2167: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2168: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2169: Procedure QueryPerformanceCounter1(var ac: Int64);
2170: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2171: Function Quote( const ACommand : String ) : SmallInt
2172: Function QuotedStr( S : string ) : string
2173: Function RadToCycle( const Radians : Extended ) : Extended
2174: Function RadToDeg( const Radians : Extended ) : Extended
2175: Function RadToDeg( const Value : Extended ) : Extended;
2176: Function RadToDeg1( const Value : Double) : Double;
2177: Function RadToDeg2( const Value : Single) : Single;
2178: Function RadToGrad( const Radians : Extended ) : Extended;
2179: Function RadToGrad( const Value : Extended ) : Extended;
2180: Function RadToGrad1( const Value : Double ) : Double;
2181: Function RadToGrad2( const Value : Single ) : Single;

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2182: Function RandG( Mean, StdDev : Extended ) : Extended
2183: function Random(const ARange: Integer): Integer;
2184: function random2(a: integer): double
2185: function RandomE: Extended;
2186: function RandomF: Extended;
2187: Function RandomFrom( const AValues : array of string ) : string;
2188: Function RandomRange( const AFrom, ATo : Integer ) : Integer
2189: function randSeed: longint
2190: Function RawToDataColumn( ACol : Integer ) : Integer
2191: Function Read : Char
2192: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint ) : HResult
2193: function Read(Buffer:String;Count:LongInt):LongInt
2194: Function ReadBinaryStream( const Section, Name : string; Value : TStream ) : Integer
2195: Function ReadBool( const Section, Ident : string; Default : Boolean ) : Boolean
2196: Function ReadCardinal( const AConvert : boolean ) : Cardinal
2197: Function ReadChar : Char
2198: Function ReadClient( var Buffer, Count : Integer ) : Integer
2199: Function ReadDate( const Section, Name : string; Default : TDateTime ) : TDateTime
2200: Function ReadDateTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2201: Function ReadFloat( const Section, Name : string; Default : Double ) : Double
2202: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:Bool):Int
2203: Function ReadInteger( const AConvert : boolean ) : Integer
2204: Function ReadInteger( const Section, Ident : string; Default : Longint ) : Longint
2205: Function ReadLn : string
2206: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer ) : string
2207: function ReadLn(question: string): string
2208: Function readm: string; //read last line in memo2 - console!
2209: Function ReadLnWait( AFailCount: Integer ) : string
2210: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2211: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2212: Function ReadSmallInt( const AConvert : boolean ) : SmallInt
2213: Function ReadString( const ABytes : Integer ) : string
2214: Function ReadString( const Section, Ident, Default : string ) : string
2215: Function ReadString( Count : Integer ) : string
2216: Function ReadTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2217: Function ReadTimeStampCounter : Int64
2218: Function RebootOS : Boolean
2219: Function Receive( ATimeOut : Integer ) : TReplyStatus
2220: Function ReceiveBuf( var Buf, Count : Integer ) : Integer
2221: Function ReceiveLength : Integer
2222: Function ReceiveText : string
2223: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2224: Function ReceiveSerialText: string
2225: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word ) : TDateTime
2226: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,AMilliSec:Word):TDateTime
2227: Function RecodeDay( const AValue : TDateTime; const ADay : Word ) : TDateTime
2228: Function RecodeHour( const AValue : TDateTime; const AHour : Word ) : TDateTime
2229: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word ) : TDateTime
2230: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word ) : TDateTime
2231: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word ) : TDateTime
2232: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word ) : TDateTime
2233: Function RecodeTime( const AValue: TDateTime;const AHour,AMinute,ASecond,AMilliSecond:Word):TDateTime
2234: Function RecodeYear( const AValue : TDateTime; const AYear : Word ) : TDateTime
2235: Function Reconcile( const Results : OleVariant ) : Boolean
2236: Function Rect( Left, Top, Right, Bottom : Integer ) : TRect
2237: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect
2238: Function Rect2( const ATopLeft, ABottomRight : TPoint ) : TRect;
2239: Function RectAssign( const Left, Top, Right, Bottom : Integer ) : TRect
2240: Function RectAssignPoints( const TopLeft, BottomRight : TPoint ) : TRect
2241: Function RectBounds( const Left, Top, Width, Height : Integer ) : TRect
2242: Function RectCenter( const R : TRect ) : TPoint
2243: Function RectEqual( const R1, R2 : TRect ) : Boolean
2244: Function RectHeight( const R : TRect ) : Integer
2245: Function RectIncludesPoint( const R : TRect; const Pt : TPoint ) : Boolean
2246: Function RectIncludesRect( const R1, R2 : TRect ) : Boolean
2247: Function RectIntersection( const R1, R2 : TRect ) : TRect
2248: Function RectIntersectRect( const R1, R2 : TRect ) : Boolean
2249: Function RectIsEmpty( const R : TRect ) : Boolean
2250: Function RectIsNull( const R : TRect ) : Boolean
2251: Function RectIsSquare( const R : TRect ) : Boolean
2252: Function RectIsValid( const R : TRect ) : Boolean
2253: Function RectsAreValid( R : array of TRect ) : Boolean
2254: Function RectUnion( const R1, R2 : TRect ) : TRect
2255: Function RectWidth( const R : TRect ) : Integer
2256: Function RedComponent( const Color32 : TColor32 ) : Integer
2257: Function Refresh : Boolean
2258: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2259: Function RegisterConversionFamily( const ADescription : string ) : TConvFamily
2260: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType ) : Boolean;
2261: Function RegisterConversionType(const AFam:TConvFamil;const ADesc:string;const AFact:Double):TConvType
2262: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2263: Function ReleaseDC(hdwnd: HWND; hdc: HDC): integer;
2264: Function ReleaseHandle : HBITMAP
2265: Function ReleaseHandle : HENHMETAFILE
2266: Function ReleaseHandle : HICON
2267: Function ReleasePalette : HPALETTE
2268: Function RemainderFloat( const X, Y : Float ) : Float

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2269: Function Remove( AClass : TClass ) : Integer
2270: Function Remove( AComponent : TComponent ) : Integer
2271: Function Remove( AItem : Integer ) : Integer
2272: Function Remove( AItem : Pointer ) : Pointer
2273: Function Remove( AItem : TObject ) : TObject
2274: Function Remove( AObject : TObject ) : Integer
2275: Function RemoveBackslash( const PathName : string ) : string
2276: Function RemoveDF( aString : String ) : String //removes thousand separator
2277: Function RemoveDir( Dir : string ) : Boolean
2278: function RemoveDir(const Dir: string): Boolean
2279: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2280: Function RemoveFileExt( const FileName : string ) : string
2281: Function RemoveHeaderEntry( AHeader, AEntry : string ) : string
2282: Function RenameFile( OldName, NewName : string ) : Boolean
2283: function RenameFile(const OldName: string; const NewName: string): Boolean
2284: Function ReplaceStr( const AText, AFromText, AToText : string ) : string
2285: Function ReplaceText( const AText, AFromText, AToText : string ) : string
2286: Function Replicate(c : char;I : longInt) : String;
2287: Function Request : TWebRequest
2288: Function ResemblesText( const AText, AOther : string ) : Boolean
2289: Function Reset : Boolean
2290: function Reset2(mypath: string):string;
2291: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2292: Function ResourceLoad( ResType: TResType; const Name : string; MaskColor : TColor ) : Boolean
2293: Function Response : TWebResponse
2294: Function ResumeSupported : Boolean
2295: Function RETHINKHOTKEYS : BOOLEAN
2296: Function RETHINKLINES : BOOLEAN
2297: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2298: Function RetrieveCurrentDir : string
2299: Function RetrieveDeltas( const cdsArray : array of TClientDataset ) : Variant
2300: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2301: Function RetrieveMailBoxSize : integer
2302: Function RetrieveMsgSize( const MsgNum : Integer ) : Integer
2303: Function RetrieveProviders( const cdsArray : array of TClientDataset ) : Variant
2304: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStrings ) : boolean
2305: Function ReturnMIMEType( var MediaType, EncType : String ) : Boolean
2306: Function ReverseBits( Value : Byte ) : Byte;
2307: Function ReverseBits1( Value : Shortint ) : Shortint;
2308: Function ReverseBits2( Value : Smallint ) : Smallint;
2309: Function ReverseBits3( Value : Word ) : Word;
2310: Function ReverseBits4( Value : Cardinal ) : Cardinal;
2311: Function ReverseBits4( Value : Integer ) : Integer;
2312: Function ReverseBits5( Value : Int64 ) : Int64;
2313: Function ReverseBytes( Value : Word ) : Word;
2314: Function ReverseBytes1( Value : Smallint ) : Smallint;
2315: Function ReverseBytes2( Value : Integer ) : Integer;
2316: Function ReverseBytes3( Value : Cardinal ) : Cardinal;
2317: Function ReverseBytes4( Value : Int64 ) : Int64;
2318: Function ReverseString( const AText : string ) : string
2319: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
2320: Function Revert : HRESULT
2321: Function RGB(R,G,B: Byte): TColor;
2322: Function RGB2BGR( const Color : TColor ) : TColor
2323: Function RGB2TColor( R, G, B : Byte ) : TColor
2324: Function RGBToWebColorName( RGB : Integer ) : string
2325: Function RGBToWebColorStr( RGB : Integer ) : string
2326: Function RgbToHtml( Value : TColor ) : string
2327: Function HtmlToRgb(const Value: string): TColor;
2328: Function RightStr( const AStr : String; Len : Integer ) : String
2329: Function RightStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
2330: Function RightStr( const AText : WideString; const ACount : Integer ) : WideString;
2331: Function ROL( Aval : LongWord; AShift : Byte ) : LongWord
2332: Function ROR( Aval : LongWord; AShift : Byte ) : LongWord
2333: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float ) : TFloatPoint
2334: function RotatePoint(Point : TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2335: Function Round(e : Extended) : Longint;
2336: Function Round64(e: extended): Int64;
2337: Function Roundat( const Value : string; Position : SmallInt ) : string
2338: type TRoundToRange = -37..37; TRoundToEXRangeExtended = -20..20;
2339: Function RoundTo(const AValue: Extended; const ADigit: TRoundToEXRangeExtended): Extended;'+');
2340: Function SimpleRoundTo(const AValue: Extended; const ADigit: TRoundToRange): Extended;'+');
2341: Function RoundFrequency( const Frequency : Integer ) : Integer
2342: Function RoundInt( Value : Integer; StepSize : Integer ) : Integer
2343: Function RoundPoint( const X, Y : Double ) : TPoint
2344: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double ) : TRect
2345: Function RowCount : Integer
2346: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2347: Function RowRequest( Row : OleVariant; Options : TFetchOptions ) : OleVariant
2348: Function RPos( const ASub, AIn : String; AStart : Integer ) : Integer
2349: Function RRot( const Value : Byte; const Count : TBitRange ) : Byte;
2350: Function RRot1( const Value : Word; const Count : TBitRange ) : Word;
2351: Function RRot2( const Value : Integer; const Count : TBitRange ) : Integer;
2352: Function RunDLL32(const ModuleNa,FuncName,Cmdline:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2353: Function RunningProcessesList( const List : TStrings; FullPath : Boolean ) : Boolean
2354: Function RunByteCode(Bytecode: AnsiString; out RuntimeErrors: AnsiString): Boolean;'+');
2355: Function RunCompiledScript2(Bytecode: AnsiString; out RuntimeErrors: AnsiString): Boolean;'+');
2356: Function S_AddBackSlash( const ADirName : string ) : string

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2357: Function S_AllTrim( const cStr : string) : string
2358: Function S_AtRepl( const cAT, cStr, cRepl : string) : string
2359: Function S_Cut( const cStr : string; const iLen : integer) : string
2360: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2361: Function S_DirExists( const ADir : string) : Boolean
2362: Function S_Empty( const cStr : string) : boolean
2363: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2364: Function S_LargeFontsActive : Boolean
2365: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2366: Function S_LTrim( const cStr : string) : string
2367: Function S_ReadNextTextLineFromStream( stream : TStream) : string
2368: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2369: Function S_ReplFirst( const cAT, cStr, cRepl : string) : string
2370: Function S_RoundDecimal( AValue : Extended; APlaces : Integer) : Extended
2371: Function S_RTrim( const cStr : string) : string
2372: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2373: //Type TS_ShellExecuteCmd = (seCmdOpen, seCmdPrint, seCmdExplore);
2374: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2375: Function S_Space( const iLen : integer) : String
2376: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2377: Function S_StrBlanksCuttoLong( const cStr : string; const iLen : integer) : string
2378: Function S_StrCRC32( const Text : string) : LongWORD
2379: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2380: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2381: Function S_StringtoUTF_8( const AString : string) : string
2382: Function S_StrLBlanks( const cStr : string; const iLen : integer) : string
2383: function S_StrToReal(const cStr: string; var R: Double): Boolean
2384: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2385: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2386: Function S_UTF_8ToString( const AString : string) : string
2387: Function S_WBox( const AText : string) : integer
2388: Function SameDate( const A, B : TDateTime) : Boolean
2389: function SameDate(const A, B: TDateTime): Boolean;
2390: Function SameDateTime( const A, B : TDateTime) : Boolean
2391: function SameDateTime(const A, B: TDateTime): Boolean;
2392: Function SameFileName( S1, S2 : string) : Boolean
2393: Function SameText( S1, S2 : string) : Boolean
2394: function SameText(const S1: string; const S2: string): Boolean)
2395: Function SameTime( const A, B : TDateTime) : Boolean
2396: function SameTime(const A, B: TDateTime): Boolean;
2397: function SameValue(const A, B: Extended): Boolean //overload;
2398: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2399: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2400: Function SampleVariance( const X : TDynFloatArray) : Float
2401: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2402: Function Sar1( const Value : Smallint; const Count : TbitRange) : Smallint;
2403: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2404: Function SaveToFile( const AfileName : TFileName) : Boolean
2405: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2406: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2407: Function ScanF(const aformat: String; const args: array of const): string;
2408: Function SCREENTOCCLIENT(POINT:TPOINT):TPOINT
2409: Function SearchBuf(Buf:PChar; BufLen:Integer; SelStart,SelLength:Integer;SearchString:String;Options: TStringSearchOptions):PChar
2410: Function SearchBuf2(Buf: String;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer;
2411: function SearchRecattr: integer;
2412: function SearchRecExcludeAttr: integer;
2413: Function SearchRecFileSize64( const SearchRec : TSearchRec ) : Int64
2414: function SearchRecname: string;
2415: function SearchRecsize: integer;
2416: function SearchRectime: integer;
2417: Function Sec( const X : Extended) : Extended
2418: Function Secant( const X : Extended) : Extended
2419: Function SecH( const X : Extended) : Extended
2420: Function SecondOf( const AValue : TDateTime) : Word
2421: Function SecondOfDay( const AValue : TDateTime) : LongWord
2422: Function SecondOfTheHour( const AValue : TDateTime) : Word
2423: Function SecondOfTheMinute( const AValue : TDateTime) : Word
2424: Function SecondOfTheMonth( const AValue : TDateTime) : LongWord
2425: Function SecondOfTheWeek( const AValue : TDateTime) : LongWord
2426: Function SecondOfTheYear( const AValue : TDateTime) : LongWord
2427: Function SecondsBetween( const ANow, AThen : TDateTime) : Int64
2428: Function SecondSpan( const ANow, AThen : TDateTime) : Double
2429: Function SectionExists( const Section : string) : Boolean
2430: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption) : Boolean
2431: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint ) : HResult
2432: function Seek(Offset:LongInt-Origin:Word):LongInt
2433: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2434: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string; Options : TSelectDirExtOpts; Parent : TwinControl ) : Boolean;
2435: Function SelectImage( var AFileName : string; const Extensions, Filter : string) : Boolean
2436: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2437: Function SendBuf( var Buf, Count : Integer) : Integer
2438: Function SendCmd( const AOut : string; const AResponse : SmallInt) : SmallInt;
2439: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt) : SmallInt;
2440: Function SendKey( AppName : string; Key : Char) : Boolean
2441: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2442: Function SendStream( AStream : TStream) : Boolean

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2443: Function SendStreamThenDrop( AStream : TStream ) : Boolean
2444: Function SendText( const S : string ) : Integer
2445: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2446: Function SendSerialText(Data: String): cardinal
2447: Function Sent : Boolean
2448: Function ServicesFilePath: string
2449: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer ) : TColor32
2450: Function SetBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2451: Function SetBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2452: Function SetBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2453: Function SetBit3( const Value : Word; const Bit : TBitRange ) : Word;
2454: Function SetBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2455: Function SetBit4( const Value : Integer; const Bit : TBitRange ) : Integer;
2456: Function SetBit5( const Value : Int64; const Bit : TBitRange ) : Int64;
2457: Function SetClipboard( NewClipboard : TClipboard ) : TClipboard
2458: Function SetColorBlue( const Color : TColor; const Blue : Byte ) : TColor
2459: Function SetColorFlag( const Color : TColor; const Flag : Byte ) : TColor
2460: Function SetColorGreen( const Color : TColor; const Green : Byte ) : TColor
2461: Function SetColorRed( const Color : TColor; const Red : Byte ) : TColor
2462: Function SetCurrentDir( Dir : string ) : Boolean
2463: function SetCurrentDir(const Dir: string): Boolean
2464: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2465: Function SetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
2466: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
2467: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
2468: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
2469: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2470: Function SetEnvironmentVar( const Name, Value : string ) : Boolean
2471: Function SetErrorProc( ErrorProc : TSocketErrorProc ) : TSocketErrorProc
2472: Function SetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
2473: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
2474: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
2475: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer ) : Boolean
2476: function SETFOCUSEDCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2477: Function SetLocalTime( Value : TDateTime ) : boolean
2478: Function SetPrecisionTolerance( NewTolerance : Float ) : Float
2479: Function SetPrinter( NewPrinter : TPrinter ) : TPrinter
2480: Function SetPrivilege(privilegeName: string; enable: boolean): boolean
2481: Function SetRGBValue( const Red, Green, Blue : Byte ) : TColor
2482: Function SetSequence( S, Localizar, Substituir : shortstring ) : shortstring
2483: Function SetSize( libNewSize : Longint ) : HResult
2484: Function SetUserObjectFullAccess( hUserObject : THandle ) : Boolean
2485: Function Sgn( const X : Extended ) : Integer
2486: function SHA1(const fileName: string): string
2487: function SHA256(astr: string; amode: char): string
2488: function SHA512(astr: string; amode: char): string
2489: Function ShareMemoryManager : Boolean
2490: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2491: function Shelleexecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2492: Function ShellExecute3(afilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2493: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE ) : TSHORCUT
2494: Function SHORTCUTTOTEXT( SHORTCUT : TSHORCUT ) : String
2495: function ShortDateFormat: string;
2496: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
RTL:Bool;EllipsisWidth:Int):WideString
2497: function ShortTimeFormat: string;
2498: function SHOWMODAL:INTEGER
2499: Function ShowModalControl(aControl:TControl;BS:TFormBorderStyle;BI:TBorderIcons;WS:TWindowState;aColor:
TColor; BW: Integer;Title:String;BeforeShowModal:TNotifyEvent): TModalResult';
2500: Function
ShowModalPanel(aPnl:TCustomPanel;Titl:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2501: function ShowWindow(C1: HWND; C2: integer): boolean;
2502: procedure ShowMemory //in Dialog
2503: function ShowMemory2: string;
2504: Function ShutDownOS : Boolean
2505: Function Signe( const X, Y : Extended ) : Extended
2506: Function Sign( const X : Extended ) : Integer
2507: Function Sine( const X : Extended ) : Extended;
2508: Function sinc( const x : Double ) : Double
2509: Function SinJ( X : Float ) : Float
2510: Function Size( const AFileName : String ) : Integer
2511: function SizeOf: Longint;
2512: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle ) : Integer
2513: function SlashSep(const Path, S: String): String
2514: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer ) : Extended
2515: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL ) : DWORD
2516: Function SmallPoint(X, Y: Integer): TSmallPoint
2517: Function Soundex( const AText : string; ALength : TSoundexLength ) : string
2518: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength ) : Integer
2519: Function SoundexInt( const AText : string; ALength : TSoundexIntLength ) : Integer
2520: Function SoundexProc( const AText, AOther : string ) : Boolean
2521: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength ) : Boolean
2522: Function SoundexWord( const AText : string ) : Word
2523: Function SourcePos : Longint
2524: function SourcePos:LongInt
2525: Function Split0( Str : string; const substr : string ) : TStringList
2526: Procedure SplitNameValuePair( const Line : string; var Name, Value : string )
2527: Function SQLRequiresParams( const SQL : WideString ) : Boolean
2528: Function Sqr(e : Extended) : Extended;

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2529: Function Sqrt(e : Extended) : Extended;
2530: Function StartIP : String
2531: Function StartPan(WndHandle : THandle; AControl : TControl) : Boolean
2532: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2533: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2534: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime
2535: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2536: Function StartOfAYear( const AYear : Word) : TDateTime
2537: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2538: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2539: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2540: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2541: Function StartsStr( const ASubText, AText : string) : Boolean
2542: Function StartsText( const ASubText, AText : string) : Boolean
2543: Function StartsWith( const ANSIStr, APattern : String) : Boolean
2544: Function StartsWith( const str : string; const sub : string) : Boolean
2545: Function StartsWithACE( const ABBytes : TIdBytes) : Boolean
2546: Function StatusString( StatusCode : Integer) : string
2547: Function StdDev( const Data : array of Double) : Extended
2548: Function Stop : Float
2549: Function StopCount( var Counter : TJclCounter) : Float
2550: Function StoreColumns : Boolean
2551: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2552: Function StrAfterl( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2553: Function StrAlloc( Size : Cardinal) : PChar
2554: function StrAlloc(Size: Cardinal): PChar
2555: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2556: Function StrBeforel( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2557: Function StrBufSize( Str : PChar) : Cardinal
2558: function StrBufSize(const Str: PChar): Cardinal
2559: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType
2560: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType
2561: Function StrCat( Dest : PChar; Source : PChar) : PChar
2562: function StrCat(Dest: PChar; const Source: PChar): PChar
2563: Function StrCharLength( Str : PChar) : Integer
2564: Function StrComp( Str1, Str2 : PChar) : Integer
2565: function StrComp(const Str1: PChar; const Str2: PChar): Integer
2566: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2567: function StrCopy(Dest: PChar; const Source: PChar): PChar
2568: Function Stream_to_AnsiString( Source : TStream) : ansistring
2569: Function Stream_to_Base64( Source : TStream) : ansistring
2570: Function Stream_to_decimalbytes( Source : TStream) : string
2571: Function Stream2WideString( ostream : TStream) : WideString
2572: Function StreamtoAnsiString( Source : TStream) : ansistring
2573: Function StreamToByte( Source : TStream) : string
2574: Function Stream.ToDecimalbytes( Source : TStream) : string
2575: Function StreamToOrd( Source : TStream) : string
2576: Function StreamToString( Source : TStream) : string
2577: Function StreamToString2( Source : TStream) : string
2578: Function StreamToString3( Source : TStream) : string
2579: Function StreamToString4( Source : TStream) : string
2580: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2581: Function StrEmpty( const sString : string) : boolean
2582: Function StrEnd( Str : PChar) : PChar
2583: function StrEnd(const Str: PChar): PChar
2584: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2585: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar
2586: Function StrGet(var S : String; I : Integer) : Char
2587: Function StrGet2(S : String; I : Integer) : Char
2588: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2589: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2590: Function StrHtmlDecode( const AStr : String) : String
2591: Function StrHtmlEncode( const AStr : String) : String
2592: Function StrToBytes(const Value: String): TBytes;
2593: Function StrIComp( Str1, Str2 : PChar) : Integer
2594: Function StringOfChar(c : char;I : longInt) : String;
2595: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2596: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2597: Function StringRefCount(const s: String): integer;
2598: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2599: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2600: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2601: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2602: Function StringToBoolean( const Ps : string) : Boolean
2603: function StringToColor(const S: string): TColor
2604: function StringToCursor(const S: string): TCursor;
2605: function StringToGUID(const S: string): TGUID
2606: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2607: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2608: Function StringWidth( S : string) : Integer
2609: Function StrInternetToDateTIme( Value : string) : TDateTime
2610: Function StrIsDateTIme( const Ps : string) : Boolean
2611: Function StrIsFloatMoney( const Ps : string) : Boolean
2612: Function StrIsInteger( const S : string) : Boolean
2613: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2614: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2615: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2616: Function StrLen( Str : PChar) : Cardinal
2617: function StrLen(const Str: PChar): Cardinal)

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

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2707: Function SysErrorMessage( ErrorCode : Integer ) : string
2708: function SysErrorMessage(ErrorCode: Integer): string)
2709: Function SystemTimeToDate( SystemTime : TSystemTime ) : TDateTime
2710: function SystemTimeToDate( const SystemTime: TSystemTime): TDateTime;
2711: Function SysStringLen( const S: WideString): Integer; stdcall;
2712: Function TabRect( Index : Integer ) : TRect
2713: Function Tan( const X : Extended ) : Extended
2714: Function TaskMessageDlg( const Title,
    Msg:string; DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2715: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx : Longint; DefaultButton : TMsgDlgBtn) : Integer;
2716: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx : Longint; X, Y : Integer) : Integer;
2717: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
2718: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
    TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName: string) : Integer;
2719: Function TaskMessageDlgPosHelp1( const Title, Msg:string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
    HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2720: Function TenToY( const Y : Float ) : Float
2721: Function TerminateApp( ProcessID : DWORD; Timeout : Integer ) : TJclTerminateAppResult
2722: Function TerminateTask( Wnd : HWND; Timeout : Integer ) : TJclTerminateAppResult
2723: Function TestBit( const Value : Byte; const Bit : TBitRange ) : Boolean;
2724: Function TestBit2( const Value : Shortint; const Bit : TBitRange ) : Boolean;
2725: Function TestBit3( const Value : Smallint; const Bit : TBitRange ) : Boolean;
2726: Function TestBit4( const Value : Word; const Bit : TBitRange ) : Boolean;
2727: Function TestBit5( const Value : Cardinal; const Bit : TBitRange ) : Boolean;
2728: Function TestBit6( const Value : Integer; const Bit : TBitRange ) : Boolean;
2729: Function TestBit7( const Value : Int64; const Bit : TBitRange ) : Boolean;
2730: Function TestBits( const Value, Mask : Byte ) : Boolean;
2731: Function TestBits1( const Value, Mask : Shortint ) : Boolean;
2732: Function TestBits2( const Value, Mask : Smallint ) : Boolean;
2733: Function TestBits3( const Value, Mask : Word ) : Boolean;
2734: Function TestBits4( const Value, Mask : Cardinal ) : Boolean;
2735: Function TestBits5( const Value, Mask : Integer ) : Boolean;
2736: Function TestBits6( const Value, Mask : Int64 ) : Boolean;
2737: Function TestFDIVInstruction : Boolean
2738: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2739: Function TextExtent( const Text : string ) : TSize
2740: function TextHeight(Text: string): Integer;
2741: Function TextIsSame( const A1 : string; const A2 : string ) : Boolean
2742: Function TextStartsWith( const S, SubS : string ) : Boolean
2743: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean)
2744: Function ConvInteger(i : integer):string;
2745: Function IntegerToText(i : integer):string;
2746: Function TEXTTOSHORTCUT( TEXT : String ) : TSHORCUT
2747: function TextWidth(Text: string): Integer;
2748: Function ThreadCount : integer
2749: function ThousandSeparator: char;
2750: Function Ticks : Cardinal
2751: Function Time : TDateTime
2752: function Time: TDateTime;
2753: function TimeGetTime: int64;
2754: Function TimeOf( const AValue : TDateTime ) : TDateTime
2755: function TimeSeparator: char;
2756: functionTimeStampToDateTime(const TimeStamp: TTimeStamp): TDateTime
2757: Function TimeStampToMSecs( TimeStamp : TTimeStamp ) : Comp
2758: function TimeStampToMSecs(const TimeStamp: TTimeStamp): Comp)
2759: Function TimeToStr( DateTime : TDateTime ) : string;
2760: function TimeToStr(const DateTime: TDateTime): string;
2761: Function TimeZoneBias : TDateTime
2762: Function ToCommon( const AValue : Double ) : Double
2763: function ToCommon(const AValue: Double): Double;
2764: Function Today : TDateTime
2765: Function ToggleBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2766: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2767: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2768: Function ToggleBit3( const Value : Word; const Bit : TBitRange ) : Word;
2769: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2770: Function ToggleBit5( const Value : Integer; const Bit : TBitRange ) : Integer;
2771: Function ToggleBit6( const Value : Int64; const Bit : TBitRange ) : Int64;
2772: function TokenComponentIdent:string
2773: Function TokenFloat : Extended
2774: function TokenFloat:Extended
2775: Function TokenInt : Longint
2776: function TokenInt:LongInt
2777: Function TokenString : string
2778: function TokenString:String
2779: Function TokenSymbolIs( const S : string ) : Boolean
2780: function TokenSymbolIs(S:String):Boolean
2781: Function Tomorrow : TDateTime
2782: Function ToRightOf( const pc : TControl; piSpace : Integer ) : Integer
2783: Function ToString : string
2784: Function TotalVariance( const Data : array of Double ) : Extended
2785: Function Trace2( AURL : string ) : string;
2786: Function TrackMenu( Button : TToolButton ) : Boolean
2787: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN ) : INTEGER
2788: Function TranslateURI( const URI : string ) : string
2789: Function TranslationMatchesLanguages( Exact : Boolean ) : Boolean

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2790: Function TransparentStretchBlt( DstDC : HDC; DstX, DstY, DstW, DstH : Integer; SrcDC : HDC; SrcX, SrcY, SrcW,
2791:   SrcH : Integer; MaskDC : HDC; MaskX, MaskY : Integer ) : Boolean
2792: Function Trim( S : string ) : string;
2793: Function Trim( S : WideString ) : WideString;
2794: Function TrimAllOf( ATrim, AText : String ) : String
2795: Function TrimLeft( S : string ) : string;
2796: Function TrimLeft( S : WideString ) : WideString;
2797: function TrimLeft( const S : string ) : string
2798: Function TrimRight( S : string ) : string;
2799: Function TrimRight( S : WideString ) : WideString;
2800: function TrimRight( const S : string ) : string
2801: function TrueBoolStrs : array of string
2802: Function Trunc(e : Extended) : Longint;
2803: Function Trunc64(e : extended) : Int64;
2804: Function TruncPower( const Base, Exponent : Float ) : Float
2805: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily ) : Boolean;
2806: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily ) : Boolean;
2807: function TryEncodeDate( Year, Month, Day : Word; var Date : TDateTime ) : Boolean;
2808: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime ) : Boolean;
2809: Function TryEncodeDateMonthWeek( const AY, AMonth, AWeekOfMonth, ADayOfWeek : Word; var AValue : TDateTime ) : Boolean;
2810: Function TryEncodeDateTime( const AYear, AMonth, ADay, AHour, AMin, ASec, AMilliSecond : Word; out
2811:   AValue : TDateTime ) : Boolean;
2811: Function TryEncodeDateWeek( const AY, AWeekOfYear : Word; out AValue : TDateTime; const ADayOfWeek : Word ) : Boolean;
2812: Function TryEncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word; out
2813:   AVal : TDateTime ) : Boolean;
2813: function TryEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime ) : Boolean;
2814: Function TryFloatToDateTime( Value : Extended; AResult : TDateTime ) : Boolean;
2815: Function TryJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime ) : Boolean;
2816: Function TryLock : Boolean;
2817: Function TryModifiedJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime ) : Boolean;
2818: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecound,
2819:   ASecond : Word; out AResult : TDateTime ) : Boolean;
2820: Function TryStrToBcd( const AValue : string; var Bcd : TBcd ) : Boolean;
2821: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType ) : Boolean;
2822: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2823: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2824: Function TryStrToInt( const S : AnsiString; var I : Integer ) : Boolean;
2825: Function TryStrToInt64( const S : AnsiString; var I : Int64 ) : Boolean;
2826: function TryStrToBool( const S : string; out Value : Boolean ) : Boolean;
2827: Function TwoByteToWord( AByte1, AByte2 : Byte ) : Word;
2828: Function TwoCharToWord( AChar1, AChar2 : Char ) : Word;
2829: Function TwoToY( const Y : Float );
2830: Function UCS4StringToWideString( const S : UCS4String ) : WideString;
2831: Function UIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean;
2832: function Unassigned : Variant;
2833: Function UndoLastChange( FollowChange : Boolean ) : Boolean;
2834: function UniCodeToStr( Value : string ) : string;
2835: Function UnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
2836: function UnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
2837: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal ) : TDateTime;
2838: Function UnixPathToDosPath( const Path : string ) : string;
2839: Function UnixToDateTime( const AValue : Int64 ) : TDateTime;
2840: function UnixToDateTime( U : Int64 ) : TDateTime;
2841: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HResult;
2842: Function UnlockResource( ResData : HGLOBAL ) : LongBool;
2843: Function UnlockVolume( var Handle : THandle ) : Boolean;
2844: Function UnMaskString( Mask, Value : String ) : String;
2845: function UpCase( ch : Char ) : Char;
2846: Function UpCaseFirst( const AStr : string ) : string;
2847: Function UpCaseFirstWord( const AStr : string ) : string;
2848: Function UpdateAction( Action : TBasicAction ) : Boolean;
2849: Function UpdateKind : TUpdateKind;
2850: Function UPDATESTATUS : TUPDATESTATUS;
2851: Function UpperCase( S : string ) : string;
2852: Function Uppercase( s : AnyString ) : AnyString;
2853: Function URLDecode( ASrc : string ) : string;
2854: Function URLEncode( const ASrc : string ) : string;
2855: Function UseRightToLeftAlignment : Boolean;
2856: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment ) : Boolean;
2857: Function UseRightToLeftReading : Boolean;
2858: Function UTF8CharLength( Lead : Char ) : Integer;
2859: Function UTF8CharSize( Lead : Char ) : Integer;
2860: Function UTF8Decode( const S : UTF8String ) : WideString;
2861: Function UTF8Encode( const WS : WideString ) : UTF8String;
2862: Function UTF8LowerCase( const S : UTF8String ) : UTF8String;
2863: Function Utf8ToAnsi( const S : UTF8String ) : string;
2864: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string;
2865: Function UTF8UpperCase( const S : UTF8String ) : UTF8String;
2866: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean;
2867: Function ValidParentForm( control : TControl ) : TForm;
2868: Function Value : Variant;
2869: Function ValueExists( const Section, Ident : string ) : Boolean;
2870: Function ValueOf( const Key : string ) : Integer;
2871: Function ValueInSet( AValue : Variant; ASet : Variant ) : Boolean;
2872: Function VALUEOFKEY( const AKey : VARIANT ) : VARIANT;
2873: Function VarArrayFromStrings( Strings : TStrings ) : Variant;
2874: Function VarArrayFromWideStrings( Strings : TWideStrings ) : Variant;

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2875: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2876: Function VarFMTBcd : TVarType
2877: Function VarFMTBcdCreate1 : Variant;
2878: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word) : Variant;
2879: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word) : Variant;
2880: Function VarFMTBcdCreate4( const ABcd : TBcd) : Variant;
2881: Function Variance( const Data : array of Double) : Extended
2882: Function VariantAdd2( const V1 : Variant; const V2 : Variant) : Variant
2883: Function VariantAnd2( const V1 : Variant; const V2 : Variant) : Variant
2884: Function VariantDiv2( const V1 : Variant; const V2 : Variant) : Variant
2885: Function VariantGetElement( const V : Variant; i1 : integer) : Variant;
2886: Function VariantGetElement1( const V : Variant; i1, i2 : integer) : Variant;
2887: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer) : Variant;
2888: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer) : Variant;
2889: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer) : Variant;
2890: Function VariantMod2( const V1 : Variant; const V2 : Variant) : Variant
2891: Function VariantMul2( const V1 : Variant; const V2 : Variant) : Variant
2892: Function VariantNeg( const V1 : Variant) : Variant
2893: Function VariantNot( const V1 : Variant) : Variant
2894: Function VariantOr2( const V1 : Variant; const V2 : Variant) : Variant
2895: Function VariantShl2( const V1 : Variant; const V2 : Variant) : Variant
2896: Function VariantShr2( const V1 : Variant; const V2 : Variant) : Variant
2897: Function VariantSub2( const V1 : Variant; const V2 : Variant) : Variant
2898: Function VariantXor2( const V1 : Variant; const V2 : Variant) : Variant
2899: function VarIsEmpty(const V: Variant): Boolean;
2900: Function VarIsFMTBcd( const AValue : Variant) : Boolean;
2901: function VarIsNull(const V: Variant): Boolean;
2902: Function VarToBcd( const AValue : Variant) : TBcd
2903: function VarType(const V: Variant): TVarType;
2904: Function VarType( const V : Variant) : TVarType
2905: Function VarAsType( const V : Variant; AVarType : TVarType) : Variant
2906: Function VarIsType( const V : Variant; AVarType : TVarType) : Boolean;
2907: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType) : Boolean;
2908: Function VarIsByRef( const V : Variant) : Boolean
2909: Function VarIsEmpty( const V : Variant) : Boolean
2910: Procedure VarCheckEmpty( const V : Variant)
2911: Function VarIsNull( const V : Variant) : Boolean
2912: Function VarIsClear( const V : Variant) : Boolean
2913: Function VarIsCustom( const V : Variant) : Boolean
2914: Function VarIsOrdinal( const V : Variant) : Boolean
2915: Function VarIsFloat( const V : Variant) : Boolean
2916: Function VarIsNumeric( const V : Variant) : Boolean
2917: Function VarIsStr( const V : Variant) : Boolean
2918: Function VarToStr( const V : Variant) : string
2919: Function VarToStrDef( const V : Variant; const ADefault : string) : string
2920: Function VarToWideStr( const V : Variant) : WideString
2921: Function VarToWideStrDef( const V : Variant; const ADefault : WideString) : WideString
2922: Function VarToDateTIme( const V : Variant) : TDateTIme
2923: Function VarFromDateTIme( const DateTIme : TDateTIme) : Variant
2924: Function VarInRange( const AValue, AMin, AMax : Variant) : Boolean
2925: Function VarEnsureRange( const AValue, AMin, AMax : Variant) : Variant
2926: TVariantRelationship', '( vrEqual, vrLessThan, vrGreater Than, vrNotEqual )
2927: Function VarSameValue( const A, B : Variant) : Boolean
2928: Function VarCompareValue( const A, B : Variant) : TVariantRelationship
2929: Function VarIsEmptyParam( const V : Variant) : Boolean
2930: Function VarIsError( const V : Variant; out AResult : HRESULT) : Boolean;
2931: Function VarIsError1( const V : Variant) : Boolean;
2932: Function VarAsError( AResult : HRESULT) : Variant
2933: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant)
2934: Function VarIsArray( const A : Variant) : Boolean;
2935: Function VarIsArray1( const A : Variant; AResolveByRef : Boolean) : Boolean;
2936: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType) : Variant
2937: Function VarArrayOf( const Values : array of Variant) : Variant
2938: Function VarArrayRef( const A : Variant) : Variant
2939: Function VarTypeIsValidArrayType( const AVarType : TVarType) : Boolean
2940: Function VarTypeIsValidElementType( const AVarType : TVarType) : Boolean
2941: Function VarArrayDimCount( const A : Variant) : Integer
2942: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer
2943: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer
2944: Function VarArrayLock( const A : Variant) : __Pointer
2945: Procedure VarArrayUnlock( const A : Variant)
2946: Function VarArrayGet( const A : Variant; const Indices : array of Integer) : Variant
2947: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer)
2948: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer)
2949: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer)
2950: Function Unassigned : Variant
2951: Function Null : Variant
2952: Function VectorAdd( const V1, V2 : TFloPoint) : TFloPoint
2953: function VectorAdd(const V1,V2: TFloPoint): TFloPoint;
2954: Function VectorDot( const V1, V2 : TFloPoint) : Double
2955: function VectorDot(const V1,V2: TFloPoint): Double;
2956: Function VectorLengthSqr( const V : TFloPoint) : Double
2957: function VectorLengthSqr(const V: TFloPoint): Double;
2958: Function VectorMult( const V : TFloPoint; const s : Double) : TFloPoint
2959: function VectorMult(const V: TFloPoint; const s: Double): TFloPoint;
2960: Function VectorSubtract( const V1, V2 : TFloPoint) : TFloPoint
2961: function VectorSubtract(const V1,V2: TFloPoint): TFloPoint;
2962: Function Verify( AUserName : String) : String
2963: Function Versine( X : Float) : Float

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2964: function VersionCheck: boolean;
2965: function VersionCheckAct: string;
2966: Function VersionLanguageId( const LangIdRec : TLangIdRec ) : string
2967: Function VersionLanguageName( const LangId : Word ) : string
2968: Function VersionResourceAvailable( const FileName : string ) : Boolean
2969: Function Visible : Boolean
2970: function VolumeID(DriveChar: Char): string
2971: Function WaitFor( const AString : string ) : string
2972: Function WaitFor( const TimeOut : Cardinal ) : TJclWaitResult
2973: Function WaitForL : TWaitResult;
2974: Function WaitForData( Timeout : Longint ) : Boolean
2975: Function WebColorNameToColor( WebColorName : string ) : TColor
2976: Function WebColorStrToColor( WebColor : string ) : TColor
2977: Function WebColorToRGB( WebColor : Integer ) : Integer
2978: Function wGet(aURL, afile: string): boolean;
2979: Function wGet2(aURL, afile: string): boolean; //without file open
2980: Function wGetX(aURL, afile: string): boolean;
2981: Function wGetX2(aURL, afile: string): boolean; //without file open
2982: Function WebGet(aURL, afile: string): boolean;
2983: Function WebExists: boolean; //alias to isinternet
2984: Function WeekOf( const AValue : TDateTime ) : Word
2985: Function WeekOfTheMonth( const AValue : TDateTime ) : Word;
2986: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word ) : Word;
2987: Function WeekOfTheYear( const AValue : TDateTime ) : Word;
2988: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word ) : Word;
2989: Function WeeksBetween( const ANow, AThen : TDateTime ) : Integer
2990: Function WeeksInAYear( const AYear : Word ) : Word
2991: Function WeeksInYear( const AValue : TDateTime ) : Word
2992: Function WeekSpan( const ANow, AThen : TDateTime ) : Double
2993: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineStyle ) : WideString
2994: Function WideCat( const x, y : WideString ) : WideString
2995: Function WideCompareStr( S1, S2 : WideString ) : Integer
2996: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2997: Function WideCompareText( S1, S2 : WideString ) : Integer
2998: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2999: Function WideCopy( const src : WideString; index, count : Integer ) : WideString
3000: Function WideDequotedStr( const S : WideString; AQuote : WideChar ) : WideString
3001: Function WideEqual( const x, y : WideString ) : Boolean
3002: function WideFormat(const Format: WideString; const Args: array of const): WideString)
3003: Function WideGreater( const x, y : WideString ) : Boolean
3004: Function WideLength( const src : WideString ) : Integer
3005: Function WideLess( const x, y : WideString ) : Boolean
3006: Function WideLowerCase( S : WideString ) : WideString
3007: function WideLowerCase(const S: WideString): WideString
3008: Function WidePos( const src, sub : WideString ) : Integer
3009: Function WideQuotedStr( const S : WideString; Quote : WideChar ) : WideString
3010: Function WideReplaceStr( const AText, AFromText, AToText : WideString ) : WideString
3011: Function WideReplaceText( const AText, AFromText, AToText : WideString ) : WideString
3012: Function WideSameStr( S1, S2 : WideString ) : Boolean
3013: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
3014: Function WideSameText( S1, S2 : WideString ) : Boolean
3015: function WideSameText(const S1: WideString; const S2: WideString): Boolean
3016: Function WideStringReplace(const S,OldPattern, NewPattern: WideString; Flags: TReplaceFlags): WideString
3017: Function WideStringToUCS4String( const S : WideString ) : UCS4String
3018: Function WideUpperCase( S : WideString ) : WideString
3019: Function Win32BackupFile( const FileName : string; Move : Boolean ) : Boolean
3020: function Win32CheckRetVal: boolean): boolean
3021: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
3022: Function Win32RestoreFile( const FileName : string ) : Boolean
3023: Function Win32Type : TIWin32Type
3024: Function WinColor( const Color32 : TColor32 ) : TColor
3025: function winexec(FileName: pchar; showCmd: integer): integer;
3026: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3027: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3028: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer ) : Boolean
3029: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64 ) : Boolean
3030: Function WithinPastMilliseconds( const ANow, AThen : TDateTime; const AMilliseconds : Int64 ) : Boolean
3031: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64 ) : Boolean
3032: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer ) : Boolean
3033: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASconds : Int64 ) : Boolean
3034: Function WithinPastWeeks( const ANow, AThen : TDateTime; const AWeeks : Integer ) : Boolean
3035: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer ) : Boolean
3036: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
3037: Function WordToStr( const Value : Word ) : String
3038: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
3039: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
3040: Procedure GetWordGridFormatValues( Proc : TGetStrProc )
3041: Function WorkArea : Integer
3042: Function WrapText( Line : string; MaxCol : Integer ) : string;
3043: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
3044: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HResult
3045: function Write(Buffer:String;Count:LongInt):LongInt
3046: Function WriteClient( var Buffer, Count : Integer ) : Integer
3047: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal
3048: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string ) : Boolean
3049: Function WriteString( const AString : string ) : Boolean
3050: Function WStrGet(var S : AnyString; I : Integer) : WideChar;
3051: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list ) : Integer
3052: Function wsprintf( Output : PChar; Format : PChar ) : Integer

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3053: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string) : string
3054: Function XmlTimeToStr( const XmlTime : string; const Format : string) : string
3055: Function XorDecode( const Key, Source : string) : string
3056: Function XorEncode( const Key, Source : string) : string
3057: Function XorString( const Key, Src : ShortString) : ShortString
3058: Function Yield : Bool
3059: Function YearOf( const AValue : TDateTime) : Word
3060: Function YearsBetween( const ANow, AThen : TDateTime) : Integer
3061: Function YearSpan( const ANow, AThen : TDateTime) : Double
3062: Function Yesterday : TDateTime
3063: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3064: Function( const Name : string; Proc : TUserFunction)
3065: Function using Special_Scholz from 3.8.5.0
3066: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3067: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3068: Function FloatToTime2Dec(value:Extended):Extended;
3069: Function MinToStd(value:Extended):Extended;
3070: Function MinToStdAsString(value:Extended):string;
3071: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3072: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3073: Function Round2Dec (zahl:Extended):Extended;
3074: Function GetAngle(x,y:Extended):Double;
3075: Function AddAngle(a1,a2:Double):Double;
3076:
3077: ****
3078: unit uPSI_StText;
3079: ****
3080: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
3081: Function TextFileSize( var F : TextFile) : LongInt
3082: Function TextPos( var F : TextFile) : LongInt
3083: Function TextFlush( var F : TextFile) : Boolean
3084:
3085: ****
3086: from JvVCLUtils;
3087: ****
3088: { Windows resources (bitmaps and icons) VCL-oriented routines }
3089: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3090: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX, DstY: Integer; SrcRect: TRect,
  Bitmap: TBitmap; TransparentColor: TColor);
3091: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3092: function MakeBitmap(ResID: PChar): TBitmap;
3093: function MakeBitmapID(ResID: Word): TBitmap;
3094: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3095: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3096: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3097: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3098: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3100: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3101: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3102: {$IFDEF WIN32}
3103: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
  X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3105: {$ENDIF}
3106: function MakeIcon(ResID: PChar): TIcon;
3107: function MakeIconID(ResID: Word): TIcon;
3108: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3109: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3110: {$IFDEF WIN32}
3111: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3112: {$ENDIF}
3113: { Service routines }
3114: procedure NotImplemented;
3115: procedure ResourceNotFound(ResID: PChar);
3116: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3117: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3118: function PaletteColor(Color: TColor): Longint;
3119: function WidthOf(R: TRect): Integer;
3120: function HeightOf(R: TRect): Integer;
3121: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3122: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3123: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3124: procedure Delay(MSecs: Longint);
3125: procedure DeleteLine(StrList: TStringList; SearchPattern: String);
3126: procedure CenterControl(Control: TControl);
3127: Function PaletteEntries( Palette : HPALETTE ) : Integer
3128: Function WindowClassName( Wnd : HWND ) : string
3129: Function ScreenWorkArea : TRect
3130: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3131: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3132: Procedure ActivateWindow( Wnd : HWND )
3133: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3134: Procedure CenterWindow( Wnd : HWND )
3135: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3136: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3137: Function DialogsToPixelsX( Dlgs : Word) : Word
3138: Function DialogsToPixelsY( Dlgs : Word) : Word
3139: Function PixelsToDialogsX( Pixs : Word) : Word

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3140: Function PixelsToDialogsY( Pixs : Word) : Word
3141: {$IFDEF WIN32}
3142: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3143: function MakeVariant(const Values: array of Variant): Variant;
3144: {$ENDIF}
3145: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3146: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3147: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3148: {$IFDEF CBUUILDER}
3149: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3150: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3151: {$ELSE}
3152: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3153: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3154: {$ENDIF CBUUILDER}
3155: function IsForegroundTask: Boolean;
3156: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3157: function GetAveCharSize(Canvas: TCanvas): TPoint;
3158: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3159: procedure FreeUnusedOLE;
3160: procedure Beep;
3161: function GetWindowsVersion: string;
3162: function LoadDLL(const LibName: string): THandle;
3163: function RegisterServer(const ModuleName: string): Boolean;
3164: {$IFDEF WIN32}
3165: function IsLibrary: Boolean;
3166: {$ENDIF}
3167: { Gradient filling routine }
3168: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3169: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3170: { String routines }
3171: function GetEnvVar(const VarName: string): string;
3172: function AnsiUpperFirstChar(const S: string): string;
3173: function StringToPChar(var S: string): PChar;
3174: function StrPAalloc(const S: string): PChar;
3175: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3176: function DropT(const S: string): string;
3177: { Memory routines }
3178: function AllocMemo(Size: Longint): Pointer;
3179: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3180: procedure FreeMemo(var fpBlock: Pointer);
3181: function GetMemoSize(fpBlock: Pointer): Longint;
3182: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3183: {$IFDEF COMPILER5_UP}
3184: procedure FreeAndNil(var Obj);
3185: {$ENDIF}
3186: // from PNGloader
3187: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3188: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3189: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3190: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3191: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3192: Function IsAnAllResult( const AModalResult : TModalResult) : Boolean
3193: Function InitWndProc( HWindow : HWnd; Message, WParam : Longint; LParam : Longint) : Longint
3194: AddConstantN('CTL3D_ALL','LongWord').SetUInt($FFFF);
3195: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)
3196: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint) : Longint
3197: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3198: Procedure SetImeMode( hWnd : HWND; Mode : TImeMode)
3199: Procedure SetImeName( Name : TImeName)
3200: Function Win32NLEnableIME( hWnd : HWND; Enable : Boolean) : Boolean
3201: Function Imm32GetContext( hWnd : HWND) : HIMC
3202: Function Imm32ReleaseContext( hWnd : HWND; hIMC : HIMC) : Boolean
3203: Function Imm32GetConversionStatus( hIMC : HIMC; var Conversion, Sentence : longword) : Boolean
3204: Function Imm32SetConversionStatus( hIMC : HIMC; Conversion, Sentence : longword) : Boolean
3205: Function Imm32SetOpenStatus( hIMC : HIMC; fOpen : Boolean) : Boolean
3206: // Function Imm32SetCompositionWindow( hIMC : HIMC; lpCompForm : PCOMPOSITIONFORM) : Boolean
3207: //Function Imm32SetCompositionFont( hIMC : HIMC; lpLogFont : PLOGFONTA) : Boolean
3208: Function Imm32GetCompositionString(hIMC:HIMC;dwWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3209: Function Imm32IsIME( hK1 : longword) : Boolean
3210: Function Imm32NotifyIME( hIMC : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3211: Procedure DragDone( Drop : Boolean)
3212:
3213:
3214: //*****added from jvvcutils
3215: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3216: function ReplaceComponentReference(This, NewReference:TComponent;var VarReference:TComponent):Boolean;
3217: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3218: function IsPositiveResult(Value: TModalResult): Boolean;
3219: function IsNegativeResult(Value: TModalResult): Boolean;
3220: function IsAbortResult(const Value: TModalResult): Boolean;
3221: function StripAllFromResult(const Value: TModalResult): TModalResult;
3222: // returns either BrightColor or DarkColor depending on the luminance of AColor
3223: // This function gives the same result (AFAIK) as the function used in Windows to
3224: // calculate the desktop icon text color based on the desktop background color
3225: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3226: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);

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3227:
3228: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3229:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3230:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3231:   var LinkName: string; Scale: Integer = 100); overload;
3232: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3233:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3234:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3235:   var LinkName: string; Scale: Integer = 100); overload;
3236: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3237:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3238: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3239:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3240:   Scale: Integer = 100): string;
3241: function HTMLPlainText(const Text: string): string;
3242: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3243:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3244: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3245:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3246: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3247: function HTMLPrepareText(const Text: string): string;
3248:
3249: **** uPSI_JvAppUtils;
3250: Function GetDefaultSection( Component: TComponent ): string;
3251: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean);
3252: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string );
3253: Function GetDefaultIniName : string;
3254: //'OnGetDefaultIniName', 'TOnGetDefaultIniName');
3255: Function GetDefaultIniRegKey : string;
3256: Function FindForm( FormClass : TFormClass ) : TForm;
3257: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm;
3258: Function ShowDialog( FormClass : TFormClass ) : Boolean;
3259: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm;
3260: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean );
3261: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean );
3262: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile );
3263: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string );
3264: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string );
3265: Function GetUniquefileNameInDir( const Path, FileNameMask : string ) : string;
3266: Function StrToIniParam( const Str : string ) : string;
3267: Function IniParamToStr( const Str : string ) : string;
3268: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string;
3269: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string );
3270: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint;
3271: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint );
3272: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean;
3273: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean );
3274: Procedure IniReadSections( IniFile : TObject; Strings : TStrings );
3275: Procedure IniEraseSection( IniFile : TObject; const Section : string );
3276: Procedure IniDeleteKey( IniFile : TObject; const Section, Ident : string );
3277: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint );
3278: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint );
3279: Procedure AppTaskbarIcons( AppOnly : Boolean );
3280: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string );
3281: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string );
3282: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject );
3283: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject );
3284: **** uPSI_JvDBUtils;
3285: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject;
3286: Function IsDataSetEmpty( DataSet : TDataSet ) : Boolean;
3287: Procedure RefreshQuery( Query : TDataSet );
3288: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean;
3289: Function DataSetSectionName( DataSet : TDataSet ) : string;
3290: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string );
3291: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool);
3292: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant; Options: TLocateOptions) : Boolean;
3293: Procedure SaveFields( DataSet : TDataSet; IniFile : TIniFile );
3294: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIniFile; RestoreVisible : Boolean );
3295: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean );
3296: Function ConfirmDelete : Boolean;
3297: Procedure ConfirmDataSetCancel( DataSet : TDataSet );
3298: Procedure CheckRequiredField( Field : TField );
3299: Procedure CheckRequiredFields( const Fields : array of TField );
3300: Function DateToSQL( Value : TDateTime ) : string;
3301: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string ) : string;
3302: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string ) : string;
3303: Function FormatSQLNumericRange(const FieldName:string;LowVal,HighVal,LowEmpty,
HighEmpty:Double;Inclusive:Bool):string;
3304: Function StrMaskSQL( const Value : string ) : string;
3305: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string;
3306: Function FormatAnsSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string;
3307: Procedure _DBError( const Msg : string );
3308: Const('TrueExpr','String ''0=0');
3309: Const('sdfStandard16','String ''''''mm''''/''dd''''/''yyyy''''');
3310: Const('sdfStandard32','String ''''''dd/mm/yyyy''''');
3311: Const('sdfOracle','String ''TO_DATE('''dd/mm/yyyy'''', ''DD/MM/YYYY'''')");
3312: Const('sdfInterbase','String ''CAST('''mm''''/''dd''''/''yyyy''' '' AS DATE)'');
3313: Const('sdfMSSQL','String ''CONVERT(datetime, '''mm''''/''dd''''/''yyyy'''', 103)'');

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3314: AddTypeS('Largeint', 'Longint
3315: AddTypeS('TIFEException', '(ErNoError, erCannotImport, erInvalidType, ErInternalError, '+
3316:   'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3317:   'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3318:   'erVersionError, ErDivideByZero, ErMathError, erCouldNotCallProc, erOutOfRecordRange, '+
3319:   'erOutOfMemory, erException, erNullPointerException, erNullVariantError, erInterfaceNotSupported, erError);
3320: (*-----*)
3321: procedure SJRegister_JclIniFiles(CL: TPSPPascalCompiler);
3322: begin
3323:   Function JIniReadBool( const FileName, Section, Line : string ) : Boolean
3324:   Function JIniReadInteger( const FileName, Section, Line : string ) : Integer
3325:   Function JIniReadString( const FileName, Section, Line : string ) : string
3326:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean )
3327:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer )
3328:   Procedure JIniWriteString( const FileName, Section, Line, Value : string )
3329:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings )
3330:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings )
3331: end;
3332:
3333: (* === compile-time registration functions === *)
3334: (*-----*)
3335: procedure SJRegister_JclDateTime(CL: TPSPPascalCompiler);
3336: begin
3337:   'UnixTimeStart', 'LongInt'(' 25569');
3338:   Function JEncodeDate( const Year : Integer; Month, Day : Word ) : TDateTime
3339:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word );
3340:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word );
3341:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer );
3342:   Function CenturyOfDate( const Date : TDateTime ) : Integer
3343:   Function CenturyBaseYear( const Date : TDateTime ) : Integer
3344:   Function DayOfDate( const Date : TDateTime ) : Integer
3345:   Function MonthOfDay( const Date : TDateTime ) : Integer
3346:   Function YearOfDate( const Date : TDateTime ) : Integer
3347:   Function JDayOfTheYear( const Date : TDateTime; var Year : Integer ) : Integer
3348:   Function DayOfTheYear1( const Date : TDateTime ) : Integer
3349:   Function DayOfTheYearToDate( const Year, Day : Integer ) : TDateTime
3350:   Function HourOfTime( const Date : TDateTime ) : Integer
3351:   Function MinuteOfTime( const Date : TDateTime ) : Integer
3352:   Function SecondOfTime( const Date : TDateTime ) : Integer
3353:   Function GetISOYearNumberOfDays( const Year : Word ) : Word
3354:   Function IsISOLongYear( const Year : Word ) : Boolean
3355:   Function IsISOLongYear1( const Date : TDateTime ) : Boolean
3356:   Function ISODayOfWeek( const Date : TDateTime ) : Word
3357:   Function JISOWeekNumber( Date : TDateTime; var YearOfWeekNumber, WeekDay : Integer ) : Integer
3358:   Function ISOWeekNumber1( Date : TDateTime; var YearOfWeekNumber : Integer ) : Integer
3359:   Function ISOWeekNumber2( Date : TDateTime ) : Integer
3360:   Function ISOWeekToDate( const Year, Week, Day : Integer ) : TDateTime
3361:   Function JIsLeapYear( const Year : Integer ) : Boolean
3362:   Function IsLeapYear1( const Date : TDateTime ) : Boolean
3363:   Function JDaysInMonth( const Date : TDateTime ) : Integer
3364:   Function Make4DigitYear( Year, Pivot : Integer ) : Integer
3365:   Function JMakeYear4Digit( Year, WindowsillYear : Integer ) : Integer
3366:   Function JEasterSunday( const Year : Integer ) : TDateTime // TDosDateTime', 'Integer
3367:   Function JFormatDateTime( Form : string; Date : TDateTime ) : string
3368:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3369:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFiletime ) : Boolean;
3370:   Function HoursToMsecs( Hours : Integer ) : Integer
3371:   Function MinutesToMsecs( Minutes : Integer ) : Integer
3372:   Function SecondsToMsecs( Seconds : Integer ) : Integer
3373:   Function TimeOfDateTimeToSeconds( Date : TDateTime ) : Integer
3374:   Function TimeOfDateTimeToMsecs( Date : TDateTime ) : Integer
3375:   Function DateTimeToLocalDateTime( Date : TDateTime ) : TDateTime
3376:   Function LocalDateTimeToDate( Date : TDateTime ) : TDateTime
3377:   Function DateTimeToDosDateTime( const Date : TDateTime ) : TDosDateTime
3378:   Function JDateTimeToFileTime( Date : TDateTime ) : TFileTime
3379:   Function JDATimeToSystemTime( Date : TDateTime ) : TSystemTime;
3380:   Procedure DateTimeToSystemTime1( Date : TDateTime; var SysTime : TSystemTime );
3381:   Function LocalDateTimeToFileTime( Date : TDateTime ) : FileTime
3382:   Function DosDateTimeToDate( const DosTime : TDosDateTime ) : TDateTime
3383:   Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3384:   Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3385:   Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3386:   Function DosDateTimeToStr( Date : Integer ) : string
3387:   Function JFileTimeToDate( const FileTime : TFileTime ) : TDateTime
3388:   Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3389:   Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3390:   Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3391:   Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3392:   Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime );
3393:   Function FileTimeToStr( const FileTime : TFileTime ) : string
3394:   Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3395:   Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3396:   Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3397:   Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3398:   Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3399:   Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3400:   Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3401:   TJclUnixTime32', 'Longword
3402:   Function JDateTimeToUnixTime( Date : TDateTime ) : TJclUnixTime32

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3403: Function JUnixTimeToDateTIme( const UnixTime : TJclUnixTime32 ) : TDateTime
3404: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3405: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3406: Function JNullStamp : TTimeStamp
3407: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3408: Function JEEqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3409: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3410: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3411: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3412: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3413: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3414: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3415: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3416: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3417: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3418: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3419: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3420: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3421: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3422: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3423: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3424:   FindClass('TOBJECT'), 'EJclDateTimeError'
3425: end;
3426:
3427: procedure SIRegister_JclMiscel2(CL: TPPascalCompiler);
3428: begin
3429:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3430:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3431:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3432:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3433:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3434:   TJclKillLevel', '( kNormal, kNoSignal, kTimeOut )
3435:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3436:   Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3437:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3438:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3439:   Function RebootOS( Killlevel : TJclKillLevel ) : Boolean
3440:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3441:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3442:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;
3443:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3444:   Function AbortShutDown : Boolean;
3445:   Function AbortShutDown1( const MachineName : string ) : Boolean
3446:   TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3447:   TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3448:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3449:   FindClass('TOBJECT'), 'EJclCreateProcessError'
3450:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3451:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar);
3452:   // with Add(EJclCreateProcessError) do
3453: end;
3454:
3455:
3456: procedure SIRegister_JclAnsiStrings(CL: TPPascalCompiler);
3457: begin
3458:   // 'AnsiSigns', 'Set').SetSet(['-', '+']);
3459:   'C1_UPPER', 'LongWord( $0001 );
3460:   'C1_LOWER', 'LongWord( $0002 );
3461:   'C1_DIGIT', 'LongWord').SetUInt( $0004 );
3462:   'C1_SPACE', 'LongWord').SetUInt( $0008 );
3463:   'C1_PUNCT', 'LongWord').SetUInt( $0010 );
3464:   'C1_CNTRL', 'LongWord').SetUInt( $0020 );
3465:   'C1_BLANK', 'LongWord').SetUInt( $0040 );
3466:   'C1_XDIGIT', 'LongWord').SetUInt( $0080 );
3467:   'C1_ALPHA', 'LongWord').SetUInt( $0100 );
3468:   AnsiChar', 'Char
3469:   Function StrIsAlpha( const S : AnsiString ) : Boolean
3470:   Function StrIsAlphaNum( const S : AnsiString ) : Boolean
3471:   Function StrIsAlphaNumUnderscore( const S : AnsiString ) : Boolean
3472:   Function StrContainsChars( const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean ) : Boolean
3473:   Function StrConsistsOfNumberChars( const S : AnsiString ) : Boolean
3474:   Function StrIsDigit( const S : AnsiString ) : Boolean
3475:   Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet ) : Boolean
3476:   Function StrSame( const S1, S2 : AnsiString ) : Boolean
3477:   //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar ) : AnsiString
3478:   Function StrCharPosLower( const S : AnsiString; CharPos : Integer ) : AnsiString
3479:   Function StrCharPosUpper( const S : AnsiString; CharPos : Integer ) : AnsiString
3480:   Function StrDoubleQuote( const S : AnsiString ) : AnsiString
3481:   Function StrEnsureNoPrefix( const Prefix, Text : AnsiString ) : AnsiString
3482:   Function StrEnsureNoSuffix( const Suffix, Text : AnsiString ) : AnsiString
3483:   Function StrEnsurePrefix( const Prefix, Text : AnsiString ) : AnsiString
3484:   Function StrEnsureSuffix( const Suffix, Text : AnsiString ) : AnsiString
3485:   Function StrEscapedToString( const S : AnsiString ) : AnsiString
3486:   Function JStrLower( const S : AnsiString ) : AnsiString
3487:   Procedure StrLowerInPlace( var S : AnsiString )
3488:   //Procedure StrLowerBuff( S : PAnsiChar )
3489:   Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer;
3490:   Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString

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3491: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3492: Function StrProper( const S : AnsiString ) : AnsiString
3493: //Procedure StrProperBuff( S : PAnsiChar )
3494: Function StrQuote( const S : AnsiString; C : AnsiChar ) : AnsiString
3495: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3496: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3497: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3498: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar ) : AnsiString
3499: Function StrReplaceChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3500: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;
3501: Function StrRepeat( const S : AnsiString; Count : Integer ) : AnsiString
3502: Function StrRepeatLength( const S : AnsiString; const L : Integer ) : AnsiString
3503: Function StrReverse( const S : AnsiString ) : AnsiString
3504: Procedure StrReverseInPlace( var S : AnsiString )
3505: Function StrSingleQuote( const S : AnsiString ) : AnsiString
3506: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet ) : AnsiString
3507: Function StrStringToEscaped( const S : AnsiString ) : AnsiString
3508: Function StrStripNonNumberChars( const S : AnsiString ) : AnsiString
3509: Function StrToHex( const Source : AnsiString ) : AnsiString
3510: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar ) : AnsiString
3511: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3512: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar ) : AnsiString
3513: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3514: Function StrTrimQuotes( const S : AnsiString ) : AnsiString
3515: Function JStrUpper( const S : AnsiString ) : AnsiString
3516: Procedure StrUpperInPlace( var S : AnsiString )
3517: //Procedure StrUpperBuff( S : PAnsiChar )
3518: Function StrOemToAansi( const S : AnsiString ) : AnsiString
3519: Function StrAnsiToOem( const S : AnsiString ) : AnsiString
3520: Procedure StrAddRef( var S : AnsiString )
3521: Function StrAllocSize( const S : AnsiString ) : Longint
3522: Procedure StrDecRef( var S : AnsiString )
3523: //Function StrLen( S : PAnsiChar ) : Integer
3524: Function StrLength( const S : AnsiString ) : Longint
3525: Function StrRefCount( const S : AnsiString ) : Longint
3526: Procedure StrResetLength( var S : AnsiString )
3527: Function StrCharCount( const S : AnsiString; C : AnsiChar ) : Integer
3528: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet ) : Integer
3529: Function StrSbCount( const S, SubS : AnsiString ) : Integer
3530: Function StrCompare( const S1, S2 : AnsiString ) : Integer
3531: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer ) : Integer
3532: //Function StrFillChar( const C : AnsiChar; Count : Integer ) : AnsiString;
3533: Function StrFillCharl( const C : Char; Count : Integer ) : AnsiString;
3534: Function StrFillChar( const C: Char; Count: Integer): string';
3535: Function IntFillChar( const I: Integer; Count: Integer): string');
3536: Function ByteFillChar( const B: Byte; Count: Integer): string');
3537: Function ArrFillChar( const AC: Char; Count: Integer): TCharArray';
3538: Function ArrByteFillChar( const AB: Char; Count: Integer): TByteArray;
3539: Function StrFind( const Substr, S : AnsiString; const Index : Integer ) : Integer
3540: //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString ) : Boolean
3541: Function StrIndex( const S : AnsiString; const List : array of AnsiString ) : Integer
3542: Function StrILastPos( const SubStr, S : AnsiString ) : Integer
3543: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3544: Function StrIsOneof( const S : AnsiString; const List : array of AnsiString ) : Boolean
3545: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3546: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3547: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3548: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3549: Function StrNPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3550: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString ) : Integer
3551: Function StrSearch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3552: //Function StrAfter( const SubStr, S : AnsiString ) : AnsiString
3553: //Function StrBefore( const SubStr, S : AnsiString ) : AnsiString
3554: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3555: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3556: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3557: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3558: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3559: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3560: Function CharEqualNoCase( const C1, C2 : AnsiChar ) : Boolean
3561: Function CharIsAlpha( const C : AnsiChar ) : Boolean
3562: Function CharIsAlphaNum( const C : AnsiChar ) : Boolean
3563: Function CharIsBlank( const C : AnsiChar ) : Boolean
3564: Function CharIsControl( const C : AnsiChar ) : Boolean
3565: Function CharIsDelete( const C : AnsiChar ) : Boolean
3566: Function CharIsDigit( const C : AnsiChar ) : Boolean
3567: Function CharIsLower( const C : AnsiChar ) : Boolean
3568: Function CharIsNumberChar( const C : AnsiChar ) : Boolean
3569: Function CharIsPrintable( const C : AnsiChar ) : Boolean
3570: Function CharIsPunctuation( const C : AnsiChar ) : Boolean
3571: Function CharIsReturn( const C : AnsiChar ) : Boolean
3572: Function CharIsSpace( const C : AnsiChar ) : Boolean
3573: Function CharIsUpper( const C : AnsiChar ) : Boolean
3574: Function CharIsWhiteSpace( const C : AnsiChar ) : Boolean
3575: Function CharType( const C : AnsiChar ) : Word
3576: Function CharHex( const C : AnsiChar ) : Byte
3577: Function CharLower( const C : AnsiChar ) : AnsiChar
3578: Function CharUpper( const C : AnsiChar ) : AnsiChar
3579: Function CharToggleCase( const C : AnsiChar ) : AnsiChar

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3580: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3581: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3582: Function CharIPos( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3583: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3584: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3585: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3586: Function StringsToStr( const List:TStrings;const Sep:AnsiString;const AllowEmptyString:Bool ):AnsiString;
3587: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean )
3588: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean )
3589: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean )
3590: Function AddStringToStrings( const S:AnsiString;Strings:TStrings; const Unique:Boolean ):Boolean
3591: Function BooleanToStr( B : Boolean ) : AnsiString
3592: Function FileToString( const FileName : AnsiString ) : AnsiString
3593: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean )
3594: Function StringTokenizer( var S : AnsiString; Separator : Ansichar ) : AnsiString
3595: Procedure StringTokenizer( const S : AnsiString; const List : TStrings )
3596: Procedure StringTokenizer( S : AnsiString; Separator : Ansichar; const List : TStrings )
3597: //Function StrWord( var S : PAnsichar; out Word : AnsiString ) : Boolean
3598: Function StrToFloatSafe( const S : AnsiString ) : Float
3599: Function StrToIntSafe( const S : AnsiString ) : Integer
3600: Procedure StrNormIndex( const StrLen : Integer; var Index : Integer; var Count : Integer );
3601: Function ArrayOf( List : TStrings ) : TDynStringArray;
3602:   EJclStringError', 'EJclError
3603: function IsClass(Address: TObject): Boolean;
3604: function IsObject(Address: TObject): Boolean;
3605: // Console Utilities
3606: //function ReadKey: Char;
3607: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3608: function JclGUIDToString(const GUID: TGUID): string;
3609: function JclStringToGUID(const S: string): TGUID;
3610: end;
3611:
3612:
3613: ***** uPSI_JvDBUtil;
3614: Procedure ExecuteSQLScript(Base:TDataBase; const Script: string; const Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3615: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3616: Function GetStoredProcedureResult( const ADatabaseName, AStoredProcName : string; AParams : array of Variant; const AResultName : string ) : Variant
3617: //Function StrFieldDesc( Field : FLDdesc ) : string
3618: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3619: Procedure CopyRecord( DataSet : TDataSet )
3620: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string; MasterField : Word; ModOp, DelOp : RINTQual )
3621: Procedure AddMasterPassword( Table : TTable; pswd : string )
3622: Procedure PackTable( Table : TTable )
3623: Procedure PackEncryptedTable( Table : TTable; pswd : string )
3624: Function EncodeQuotes( const S : string ) : string
3625: Function Cmp( const S1, S2 : string ) : Boolean
3626: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3627: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string
3628: Function ReplaceString( S : string; const OldPattern, NewPattern : string ) : string
3629: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer )
3630: *****uPSI_JvJvBDEutils;*****
3631: //JvBDEutils
3632: Function CreateDbLocate : TJvLocateObject
3633: //Function CheckOpen( Status : DBIResult ) : Boolean
3634: Procedure FetchAllRecords( DataSet : TBDEDataSet )
3635: Function TransActive( Database : TDatabase ) : Boolean
3636: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3637: Function GetQuoteChar( Database : TDatabase ) : string
3638: Procedure ExecuteQuery( const DbName, QueryText : string )
3639: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string )
3640: Function FieldLogicMap( FldType : TFieldType ) : Integer
3641: Function FieldSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer )
3642: Function GetAliasPath( const AliasName : string ) : string
3643: Function IsDirectory( const DatabaseName : string ) : Boolean
3644: Function GetBdeDirectory : string
3645: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3646: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3647: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3648: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3649: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3650: Function DataSetPositionStr( DataSet : TDataSet ) : string
3651: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean )
3652: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3653: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3654: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3655: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3656: Procedure RestoreIndex( Table : TTable )
3657: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3658: Procedure PackTable( Table : TTable )
3659: Procedure ReindexTable( Table : TTable )
3660: Procedure BdeFlushBuffers
3661: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3662: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string )
3663: Procedure DbNotSupported
3664: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint )

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

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3752: function HasAnyChar(const Chars: string; const S: string): Boolean;
3753: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3754: function CountOfChar(const Ch: Char; const S: string): Integer;
3755: function DefStr(const S: string; Default: string): string;
3756: {**** files routines}
3757: { GetWinDir returns Windows folder name }
3758: function GetWinDir: TFileName;
3759: function GetSysDir: String;
3760: { GetTempDir returns Windows temporary folder name }
3761: function GetTempDir: string;
3762: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3763: function GenTempFileName(FileName: string): string;
3764: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3765: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3766: { ClearDir clears folder Dir }
3767: function ClearDir(const Dir: string): Boolean;
3768: { DeleteDir clears and then delete folder Dir }
3769: function DeleteDir(const Dir: string): Boolean;
3770: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3771: function FileEquMask(FileName, Mask: TFileName): Boolean;
3772: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3773: Masks must be separated with comma (';') }
3774: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3775: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3776: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3777: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3778: { FileGetInfo fills SearchRec record for specified file attributes}
3779: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3780: { HasSubFolder returns True, if folder APath contains other folders }
3781: function HasSubFolder(APath: TFileName): Boolean;
3782: { IsEmptyFolder returns True, if there are no files or folders in given folder, APath}
3783: function IsEmptyFolder(APath: TFileName): Boolean;
3784: { AddSlash add slash Char to Dir parameter, if needed }
3785: procedure AddSlash(var Dir: TFileName);
3786: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3787: function AddSlash2(const Dir: TFileName): string;
3788: { AddPath returns FileName with Path, if FileName not contain any path }
3789: function AddPath(const FileName, Path: TFileName): TFileName;
3790: function AddPaths(const PathList, Path: string): string;
3791: function ParentPath(const Path: TFileName): TFileName;
3792: function FindInPath(const FileName, PathList: string): TFileName;
3793: function FindInPaths(const fileName,paths: String): String;
3794: {$IFDEF BCB1}
3795: { BrowseForFolder displays Browse For Folder dialog }
3796: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3797: {$ENDIF BCB1}
3798: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
AHelpContext : THelpContext) : Boolean
3799: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
AHelpContext : THelpContext) : Boolean
3800: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3801: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3802:
3803: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3804: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3805: { HasParam returns True, if program running with specified parameter, Param }
3806: function HasParam(const Param: string): Boolean;
3807: function HasSwitch(const Param: string): Boolean;
3808: function Switch(const Param: string): string;
3809: { ExePath returns ExtractFilePath(ParamStr(0)) }
3810: function ExePath: TFileName;
3811: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3812: function FileTimeToDateTime(const FT: TFileTime): TDateTime;
3813: function MakeValidfileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3814: {**** Graphic routines }
3815: { TTFontSelected returns True, if True Type font is selected in specified device context }
3816: function TTFontSelected(const DC: HDC): Boolean;
3817: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3818: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3819: {**** Windows routines }
3820: { SetWindowTop put window to top without recreating window }
3821: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3822: {**** other routines }
3823: { KeyPressed returns True, if Key VK is now pressed }
3824: function KeyPressed(VK: Integer): Boolean;
3825: procedure SwapInt(var Int1, Int2: Integer);
3826: function IntPower(Base, Exponent: Integer): Integer;
3827: function ChangeTopException(E: TObject): TObject;
3828: function StrToBool(const S: string): Boolean;
3829: {$IFDEF COMPILER3_UP}
3830: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3831: Length of MaxLen bytes. The compare operation is controlled by the
3832: current Windows locale. The return value is the same as for CompareStr. }
3833: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3834: function AnsiStrICmp(S1, S2: PChar): Integer;
3835: {$ENDIF}
3836: function Var2Type(V: Variant; const VarType: Integer): Variant;
3837: function VarToInt(V: Variant): Integer;
3838: function VarToFloat(V: Variant): Double;

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3839: { following functions are not documented because they are don't work properly , so don't use them }
3840: function ReplaceSokrl(S: string; const Word, Frase: string): string;
3841: { ReplaceSokrl is full equal to ReplaceString function - only for compatibility - don't use }
3842: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3843: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3844: function GetParameter: string;
3845: function GetLongFileName(FileName: string): string;
3846: {* from FileCtrl}
3847: function DirectoryExists(const Name: string): Boolean;
3848: procedure ForceDirectories(Dir: string);
3849: (# from FileCtrl)
3850: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3851: function GetComputerID: string;
3852: function GetComputerName: string;
3853: {**** string routines }
3854: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
3855: same Index.Also see RAUtilsW.ReplaceSokr function }
3856: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3857: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3858:   in the list, Words, and if founds, replaces this Word with string from another list, Frases, with the
3859: same Index, and then update NewSelStart variable }
3860: function ReplaceSokr(S:string;PosBeg,Len:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3861: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3862: function CountOfLines(const S: string): Integer;
3863: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3864: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3865:   Note: If strings SQL already contains where-statement, it must be started on beginning of any line }
3866: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3867: {**** files routines - }
3868: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3869:   Resource can be compressed using MS Compress program}
3870: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3871: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3872: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3873: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3874: { IniReadSection read section, Section, from ini-file,
3875:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3876:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3877: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3878: { LoadTextFile load text file, FileName, into string }
3879: function LoadTextFile(const FileName: TFileName): string;
3880: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3881: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3882: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3883: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3884: {$IFDEF COMPILER3_UP}
3885: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3886: function TargetFileName(const FileName: TFileName): TFileName;
3887: { return filename ShortCut linked to }
3888: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3889: {$ENDIF COMPILER3_UP}
3890: {**** Graphic routines - }
3891: { LoadIcoToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3892: procedure LoadIcoToImage(ALarge, ASmall: TImageList; const NameRes: string);
3893: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3894: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3895: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3896: function RATextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;
3897: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3898: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3899: { Cinema draws some visual effect }
3900: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3901: { Roughed fills rect with special 3D pattern }
3902: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3903: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
3904:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
3905: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3906: function TextWidth(AStr: string): Integer;
3907: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3908: function DefineCursor(Identifier: PChar): TCursor;
3909: {**** other routines - }
3910: { FindFormByClass returns first form specified class, FormClass,owned by Application global variable }
3911: function FindFormByClass(FormClass: TFormClass): TForm;
3912: function FindFormByName(FormClassName: string): TForm;
3913: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
3914:   having Tag property value, equaled to Tag parameter }
3915: function FindByTag(WinControl:TWinControl;ComponentClass:TComponentClass;const Tag:Integer):TComponent;
3916: { ControlAtPos2 equal to TWInControl.ControlAtPos function, but works better }
3917: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3918: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3919: function RBTAG(Parent: TWinControl): Integer;
3920: { AppMinimized returns True, if Application is minimized }
3921: function AppMinimized: Boolean;
3922: { MessageBox is Application.MessageBox with string (not PChar) parameters.
3923:   if Caption parameter = '', it replaced with Application.Title }
3924: function MessageBoxJ(const Msg: string; Caption: string;const Flags: Integer): Integer;

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3925: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
3926:   Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3927: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
3928:   Buttons: TMsgDlgButtons; DefButton: TMsgDlgBtn; HelpContext: Integer; Control: TWinControl): Integer;
3929: { Delay stop program execution to MSec msec }
3930: procedure Delay(MSec: Longword);
3931: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3932: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3933: procedure EnableMenuItem(Menuitem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3934: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3935: function PanelBorder(Panel: TCustomPanel): Integer;
3936: function Pixels(Control: TControl; APixels: Integer): Integer;
3937: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3938: procedure Error(const Msg: string);
3939: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3940:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3941: {ex. Text parameter: 'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:Blue>blue</i>'}
3942: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3943:   const HideSelColor: Boolean): string;
3944: function ItemHtWidth(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3945:   const HideSelColor: Boolean): Integer;
3946: function ItemHtPlain(const Text: string): string;
3947: { ClearList - clears list of TObject }
3948: procedure ClearList(List: TList);
3949: procedure MemStreamToClipBoard(MemStream: TMemoryStream; const Format: Word);
3950: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3951: { RTTI support }
3952: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3953: function GetPropStr(Obj: TObject; const PropName: string): string;
3954: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3955: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3956: procedure PrepareIniSection(SS: TStringList);
3957: { following functions are not documented because they are don't work properly, so don't use them }
3958: {$IFDEF COMPILER2}
3959: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3960: {$ENDIF}
3961:
3962: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3963: begin
3964: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3965: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3966: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
3967: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3968: Procedure BoxMoveSelected( List : TWinControl; Items : TStringList)
3969: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3970: Function BoxGetFirstSelection( List : TWinControl ) : Integer
3971: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3972: end;
3973:
3974: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3975: begin
3976: Const ('MaxInitStrNum','LongInt'( 9 );
3977: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
: array of AnsiString; MaxSplit : Integer ) : Integer
3978: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
string; MaxSplit : Integer ) : Integer
3979: Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3980: Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3981: Function JvStrStrip( S : string ) : string
3982: Function GetString( var Source : AnsiString; const Separator : AnsiString ) : AnsiString
3983: Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3984: Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3985: Function StrEatWhiteSpace( const S : string ) : string
3986: Function HexToAscii( const S : AnsiString ) : AnsiString
3987: Function AsciiToHex( const S : AnsiString ) : AnsiString
3988: Function StripQuotes( const S1 : AnsiString ) : AnsiString
3989: Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3990: Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3991: Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
3992: Function HexPCharToInt( S1 : PAnsiChar ) : Integer
3993: Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
3994: Function StripCharQuotes( S1 : PAnsiChar ) : AnsiString
3995: Function JvValidIdentifierA( S1 : PAnsiChar ) : Boolean
3996: Function JvValidIdentifier( S1 : string ) : Boolean
3997: Function JvEndChar( X : AnsiChar ) : Boolean
3998: Procedure JvGetToken( S1, S2 : PAnsiChar )
3999: Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
4000: Function IsKeyword( S1 : PAnsiChar ) : Boolean
4001: Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
4002: Function GetParenthesis( S1, S2 : PAnsiChar ) : Boolean
4003: Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar )
4004: Procedure JvEatWhitespaceChars( S1 : PAnsiChar );
4005: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
4006: Function GetTokenCount : Integer
4007: Procedure ResetTokenCount
4008: end;
4009:

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4010: procedure SIRegister_JvDBQueryParamsForm(CL: TPSPascalCompiler);
4011: begin
4012:   SIRegister_TJvQueryParamsDialog(CL);
4013:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
4014: end;
4015:
4016: ***** JvStringUtil / JvStringUtilities *****
4017: function FindNotBlankCharPos(const S: string): Integer;
4018: function AnsiChangeCase(const S: string): string;
4019: function GetWordOnPos(const S: string; const P: Integer): string;
4020: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4021: function Cmp(const S1, S2: string): Boolean;
4022: { Spaces returns string consists on N space chars }
4023: function Spaces(const N: Integer): string;
4024: { HasChar returns True, if char, Ch, contains in string, S }
4025: function HasChar(const Ch: Char; const S: string): Boolean;
4026: function HasAnyChar(const Chars: string; const S: string): Boolean;
4027: { SubStr returns substring from string, S, separated with Separator string}
4028: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
4029: { SubStrEnd same to previous function but Index numerated from the end of string }
4030: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4031: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
4032: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
4033: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
4034: { GetXYByPos is same to previous function, but returns X position in line too}
4035: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4036: { AddSlash returns string with added slash char to Dir parameter, if needed }
4037: function AddSlash2(const Dir: TFileName): string;
4038: { AddPath returns FileName with Path, if FileName not contain any path }
4039: function AddPath(const FileName, Path: TFileName): TFileName;
4040: { ExePath returns ExtractFilePath(ParamStr(0)) }
4041: function ExePath: TFileName;
4042: function LoadTextFile(const FileName: TFileName): string;
4043: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4044: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
4045: function ConcatSep(const S, S2, Separator: string): string;
4046: { FileEqMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4047: function FileEqMask(FileName, Mask: TFileName): Boolean;
4048: { FileEqMasks returns True if file, FileName, is compatible with given Masks.
4049:   Masks must be separated with comma (',') }
4050: function FileEqMasks(FileName, Masks: TFileName): Boolean;
4051: function StringEndsWith(const Str, SubStr: string): Boolean;
4052: function ExtractFilePath2(const FileName: string): string;
4053: function StrToOem(const AnsiStr: string): string;
4054: { StrToOem translates a string from the Windows character set into the OEM character set. }
4055: function OemToAnsiStr(const OemStr: string): string;
4056: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4057: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
4058: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
4059: function ReplaceStr(const S, Srch, Replace: string): string;
4060: { Returns string with every occurrence of Srch string replaced with Replace string. }
4061: function DelSpace(const S: string): string;
4062: { DelSpace return a string with all white spaces removed. }
4063: function DelChars(const S: string; Chr: Char): string;
4064: { DelChars return a string with all Chr characters removed. }
4065: function DelBSpace(const S: string): string;
4066: { DelBSpace trims leading spaces from the given string. }
4067: function DelESpace(const S: string): string;
4068: { DelESpace trims trailing spaces from the given string. }
4069: function DelRSpace(const S: string): string;
4070: { DelRSpace trims leading and trailing spaces from the given string. }
4071: function DelSpace1(const S: string): string;
4072: { DelSpace1 return a string with all non-single white spaces removed. }
4073: function Tab2Space(const S: string; Numb: Byte): string;
4074: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4075: function NPos(const C: string; S: string; N: Integer): Integer;
4076: { NPos searches for a N-th position of substring C in a given string. }
4077: function MakeStr(C: Char; N: Integer): string;
4078: function MS(C: Char; N: Integer): string;
4079: { MakeStr return a string of length N filled with character C. }
4080: function AddChar(C: Char; const S: string; N: Integer): string;
4081: { AddChar return a string left-padded to length N with characters C. }
4082: function AddCharR(C: Char; const S: string; N: Integer): string;
4083: { AddCharR return a string right-padded to length N with characters C. }
4084: function LeftStr(const S: string; N: Integer): string;
4085: { LeftStr return a string right-padded to length N with blanks. }
4086: function RightStr(const S: string; N: Integer): string;
4087: { RightStr return a string left-padded to length N with blanks. }
4088: function CenterStr(const S: string; Len: Integer): string;
4089: { CenterStr centers the characters in the string based upon the Len specified. }
4090: function CompStr(const S1, S2: string): Integer;
4091: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2,0 if S1 = S2,or 1 if S1>S2. }
4092: function CompText(const S1, S2: string): Integer;
4093: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4094: function Copy2Symb(const S: string; Symb: Char): string;
4095: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4096: function Copy2SymbDel(var S: string; Symb: Char): string;
4097: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4098: function Copy2Space(const S: string): string;

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4099: { Copy2Symb returns a substring of a string S from begining to first white space. }
4100: function Copy2SpaceDel(var S: string): string;
4101: { Copy2SpaceDel returns a substring of a string S from begining to first white space and removes this substring from S. }
4102: 
4103: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4104: { Returns string, with the first letter of each word in uppercase, all other letters in lowercase. Words are delimited by WordDelims. }
4105: 
4106: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4107: { WordCount given a set of word delimiters, returns number of words in S. }
4108: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4109: { Given a set of word delimiters, returns start position of N'th word in S. }
4110: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4111: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4112: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4113: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word delimiters, return the N'th word in S. }
4114: 
4115: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4116: { ExtractSubstr given set of word delimiters, returns the substring from S, that started from position Pos. }
4117: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4118: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4119: function QuotedString(const S: string; Quote: Char): string;
4120: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4121: function ExtractQuotedString(const S: string; Quote: Char): string;
4122: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string, and reduces pairs of Quote characters within the quoted string to a single character. }
4123: 
4124: function FindPart(const HelpWilds, InputStr: string): Integer;
4125: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4126: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4127: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4128: function XorString(const Key, Src: ShortString): ShortString;
4129: function XorEncode(const Key, Source: string): string;
4130: function XorDecode(const Key, Source: string): string;
4131: { ** Command line routines ** }
4132: {$IFDEF COMPILER4_UP}
4133: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4134: {$ENDIF}
4135: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4136: { ** Numeric string handling routines ** }
4137: function Numb2USA(const S: string): string;
4138: { Numb2USA converts numeric string S to USA-format. }
4139: function Dec2Hex(N: Longint; A: Byte): string;
4140: function D2H(N: Longint; A: Byte): string;
4141: { Dec2Hex converts the given value to a hexadecimal string representation with the minimum number of digits (A) specified. }
4142: 
4143: function Hex2Dec(const S: string): Longint;
4144: function H2D(const S: string): Longint;
4145: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4146: function Dec2Numb(N: Longint; A: Byte): string;
4147: { Dec2Numb converts the given value to a string representation with the base equal to B and with the minimum number of digits (A) specified. }
4148: 
4149: function Numb2Dec(S: string; B: Byte): Longint;
4150: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4151: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4152: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4153: function IntToRoman(Value: Longint): string;
4154: { IntToRoman converts the given value to a roman numeric string representation. }
4155: function RomanToInt(const S: string): Longint;
4156: { RomanToInt converts the given string to an integer value. If the string doesn't contain a valid roman numeric value, the 0 value is returned. }
4157: 
4158: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4159: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4160: ***** JvFileUtil;*****
4161: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4162: procedure CopyFileEx(const FileName, DestName: string; OverwriteReadOnly, ShellDialog: Boolean; ProgressControl: TControl);
4163: procedure MoveFile(const FileName, DestName: TFileName);
4164: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4165: {$IFDEF COMPILER4_UP}
4166: function GetFileSize(const FileName: string): Int64;
4167: {$ELSE}
4168: function GetFileSize(const FileName: string): Longint;
4169: {$ENDIF}
4170: function FileDateTime(const FileName: string): TDateTime;
4171: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4172: function DeleteFiles(const FileMask: string): Boolean;
4173: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4174: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4175: function NormalDir(const DirName: string): string;
4176: function RemoveBackSlash(const DirName: string): string;
4177: function ValidFileName(const FileName: string): Boolean;
4178: function DirExists(Name: string): Boolean;
4179: procedure ForceDirectories(Dir: string);
4180: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4181: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4182: {$IFDEF COMPILER4_UP}
4183: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4184: {$ENDIF}
4185: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4186: {$IFDEF COMPILER4_UP} overload; {$ENDIF}

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4187: {$IFDEF COMPILER4_UP}
4188: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4189: {$ENDIF}
4190: function GetTempDir: string;
4191: function GetWindowsDir: string;
4192: function GetSystemDir: string;
4193: function BrowseDirectory(var AFolderPath:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4194: {$IFDEF WIN32}
4195: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4196: function ShortToLongFileName(const ShortName: string): string;
4197: function ShortToLongPath(const ShortName: string): string;
4198: function LongToShortFileName(const LongName: string): string;
4199: function LongToShortPath(const LongName: string): string;
4200: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4201: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4202: {$ENDIF WIN32}
4203: {$IFNDEF COMPILER3_UP}
4204: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4205: {$ENDIF}
4206: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4207: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4208: Function CreatePopupCalculator( AOwner : TComponent ) : TWinControl;
4209: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4210:
4211: //*****procedure SIRegister_VarHlpr(CL: TPSPascalCompiler);
4212: Procedure VariantClear( var V : Variant );
4213: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4214: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4215: Procedure VariantCpy( const src : Variant; var dst : Variant );
4216: Procedure VariantAdd( const src : Variant; var dst : Variant );
4217: Procedure VariantSub( const src : Variant; var dst : Variant );
4218: Procedure VariantMul( const src : Variant; var dst : Variant );
4219: Procedure VariantDiv( const src : Variant; var dst : Variant );
4220: Procedure VariantMod( const src : Variant; var dst : Variant );
4221: Procedure VariantAnd( const src : Variant; var dst : Variant );
4222: Procedure VariantOr( const src : Variant; var dst : Variant );
4223: Procedure VariantXor( const src : Variant; var dst : Variant );
4224: Procedure VariantShl( const src : Variant; var dst : Variant );
4225: Procedure VariantShr( const src : Variant; var dst : Variant );
4226: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4227: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4228: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4229: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4230: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4231: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4232: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4233: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4234: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4235: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4236: Function VariantNot( const V1 : Variant ) : Variant;
4237: Function VariantNeg( const V1 : Variant ) : Variant;
4238: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
4239: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
4240: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
4241: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
4242: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
4243: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer );
4244: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer );
4245: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer );
4246: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer );
4247: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer );
4248: end;
4249:
4250: *****unit uPSI_JvgUtils;*****
4251: function IsEven(I: Integer): Boolean;
4252: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4253: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4254: procedure SwapInt(var I1, I2: Integer);
4255: function Spaces(Count: Integer): string;
4256: function DupStr(const Str: string; Count: Integer): string;
4257: function DupChar(C: Char; Count: Integer): string;
4258: procedure Msg(const AMsg: string);
4259: function RectW(R: TRect): Integer;
4260: function RectH(R: TRect): Integer;
4261: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4262: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4263: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4264: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4265: HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4266: procedure DrawTextInRect(DC: HDC; R: TRect; const Text:string;Style:TglTextStyle;Fnt:TFont;Flags: UINT);
4267: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4268: Style: TglTextStyle; ADelinedate, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor: TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4269: procedure DrawBox(DC:HDC; var R:TRect; Style:TglBoxStyle;BackgrColor: Longint; ATransparent: Boolean);
4270: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4271: BevelInner, BevelOuter: TPanelBevel; Bold:Boolean; BackgrColor: Longint; ATransparent: Boolean): TRect;
4272: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient; PenStyle, PenWidth: Integer);
4273: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4274: procedure DrawBitmapExt(DC: HDC; { DC - background & result }

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4275:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4276:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4277:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4278:   procedure CreateBitmapExt(DC: HDC; { DC - background & result}
4279:     SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4280:     BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4281:     ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4282:   procedure BringParentWindowToTop(Wnd: TWinControl);
4283:   function GetParentForm(Control: TControl): TForm;
4284:   procedure GetWindowImageFrom(Control: TWinControl; X, Y: Integer; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4285:   procedure GetWindowImage(Control: TWinControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4286:   procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4287:   function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4288:   function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4289:   procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4290:   function CalcMathString(AExpression: string): Single;
4291:   function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4292:   function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4293:   function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4294:   procedure TypeStringOnKeyboard(const S: string);
4295:   function NextStringGridCell(Grid: TStringGrid): Boolean;
4296:   procedure DrawTextExtAligned(Canvas: TCanvas; const
4297:     Text: string; R: TRect; Alignment: TglAlignment; WordWrap: Boolean);
4298:   procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4299:   procedure SaveComponentToTextFile(Component: TComponent; const FileName: string);
4300:   function ComponentToString(Component: TComponent): string;
4301:   procedure StringToComponent(Component: TComponent; const Value: string);
4302:   function PlayWaveResource(const ResName: string): Boolean;
4303:   function UserName: string;
4304:   function ComputerName: string;
4305:   function ExpandString(const Str: string; Len: Integer): string;
4306:   function Transliterate(const Str: string; RusToLat: Boolean): string;
4307:   function IsSmallFonts: Boolean;
4308:   function SystemColorDepth: Integer;
4309:   function GetFileTypeJ(const FileName: string): TglFileType;
4310:   Function GetFileType(hfile : THandle) : DWORD';
4311:   function FindControlAtPt(Control: TWinControl; Pt: TPoint; MinClass: TClass): TControl;
4312:   function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4313:
4314: { **** Utility routines of unit classes }
4315:   function LineStart(Buffer, BufPos: PChar): PChar;
4316:   function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar; '+
4317:     'Strings: TStrings): Integer;
4318:   Function TestStreamFormat(Stream : TStream) : TStreamOriginalFormat;
4319:   Procedure RegisterClass(AClass : TPersistentClass);
4320:   Procedure RegisterClasses(AClasses : array of TPersistentClass);
4321:   Procedure RegisterClassAlias(AClass : TPersistentClass; const Alias : string);
4322:   Procedure UnRegisterClass(AClass : TPersistentClass);
4323:   Procedure UnRegisterClasses(AClasses : array of TPersistentClass);
4324:   Procedure UnRegisterModuleClasses(Module : HMODULE);
4325:   Function FindGlobalComponent(const Name: string): TComponent;
4326:   Function IsUniqueGlobalComponentName(const Name: string): Boolean;
4327:   Function InitInheritedComponent(Instance: TComponent; RootAncestor: TClass): Boolean;
4328:   Function InitComponentRes(const ResName: string; Instance: TComponent): Boolean;
4329:   Function ReadComponentRes(const ResName: string; Instance: TComponent): TComponent;
4330:   Function ReadComponentResEx(HInstance: THandle; const ResName: string): TComponent;
4331:   Function ReadComponentResFile(const FileName: string; Instance: TComponent): TComponent;
4332:   Procedure WriteComponentResFile(const FileName: string; Instance: TComponent);
4333:   Procedure GlobalFixupReferences;
4334:   Procedure GetFixupReferenceNames(Root: TComponent; Names: TStrings);
4335:   Procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName: string; Names: TStrings);
4336:   Procedure RedirectFixupReferences(Root: TComponent; const OldRootName, NewRootName: string);
4337:   Procedure RemoveFixupReferences(Root: TComponent; const RootName: string);
4338:   Procedure RemoveFixups(Instance: TPersistent);
4339:   Function FindNestedComponent(Root: TComponent; const NamePath: string): TComponent;
4340:   Procedure BeginGlobalLoading;
4341:   Procedure NotifyGlobalLoading;
4342:   Procedure EndGlobalLoading;
4343:   Function GetUltimateOwner1(ACollection: TCollection): TPersistent;
4344:   Function GetUltimateOwner(APersistent: TPersistent): TPersistent;
4345:   // AddTypeS('TWndMethod', 'Procedure (var Message : TMessage)
4346:   //Function MakeObjectInstance( Method : TWndMethod ) : Pointer
4347:   Procedure FreeObjectInstance(ObjectInstance: Pointer);
4348:   // Function AllocateHWnd( Method : TWndMethod ) : HWnd
4349:   Procedure DeallocateHWnd(Wnd: HWnd);
4350:   Function AncestorIsValid(Ancestor: TPersistent; Root, RootAncestor: TComponent): Boolean;
4351: { ****unit uPSI_SqlTimSt and DB;*****}
4352:   Procedure VarSQLTimeStampCreate4(var aDest: Variant; const ASQLTimeStamp: TSQLTimeStamp);
4353:   Function VarSQLTimeStampCreate3: Variant;
4354:   Function VarSQLTimeStampCreate2(const AValue: string): Variant;
4355:   Function VarSQLTimeStampCreate1(const AValue: TDateTime): Variant;
4356:   Function VarSQLTimeStampCreate(const ASQLTimeStamp: TSQLTimeStamp): Variant;
4357:   Function VarSQLTimeStamp: TVarType;
4358:   Function VarIsSQLTimeStamp(const aValue: Variant): Boolean;
4359:   Function LocalToUTC(var TZInfo: TTimeZone; var Value: TSQLTimeStamp): TSQLTimeStamp //beta
4360:   Function UTCToLocal(var TZInfo: TTimeZone; var Value: TSQLTimeStamp): TSQLTimeStamp //beta
4361:   Function VarToSQLTimeStamp(const aValue: Variant): TSQLTimeStamp;
4362:   Function SQLTimeStampToStr(const Format: string; DateTime: TSQLTimeStamp): string;

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4363: Function SQLDayOfWeek( const DateTime : TSQLTimeStamp ) : integer
4364: Function DateTimeToSQLTimeStamp( const DateTime : TDateTime ) : TSQLTimeStamp
4365: Function SQLTimeStampToDate( const DateTime : TSQLTimeStamp ) : TDateTime
4366: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQLTimeStamp ) : Boolean
4367: Function StrToSQLTimeStamp( const S : string ) : TSQLTimeStamp
4368: Procedure CheckSQLTimeStamp( const ASQLTimeStamp : TSQLTimeStamp )
4369: Function ExtractFieldName( const Fields : string; var Pos : Integer ) : string;
4370: Function ExtractFieldName( const Fields : WideString; var Pos : Integer ) : WideString;
4371: //Procedure RegisterFields( const FieldClasses : array of TFieldClass )
4372: Procedure DatabaseError( const Message : WideString; Component : TComponent )
4373: Procedure DatabaseErrorFmt( const Message:WideString; const Args:array of const;Component:TComponent )
4374: Procedure DisposeMem( var Buffer, Size : Integer )
4375: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer ) : Boolean
4376: Function GetFieldProperty(DataSet:DataSet; Control:TComponent; const FieldName: WideString): TField
4377: Function VarTypeToDataType( VarType : Integer ) : TFieldType
4378: *****unit JvStrings;*****
4379: {template functions}
4380: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4381: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4382: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4383: function RemoveMasterBlocks(const SourceStr: string): string;
4384: function RemoveFields(const SourceStr: string): string;
4385: {http functions}
4386: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4387: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4388: {set functions}
4389: procedure SplitSet(AText: string; AList: TStringList);
4390: function JoinSet(AList: TStringList): string;
4391: function FirstOfSet(const AText: string): string;
4392: function LastOfSet(const AText: string): string;
4393: function CountOfSet(const AText: string): Integer;
4394: function SetRotateRight(const AText: string): string;
4395: function SetRotateLeft(const AText: string): string;
4396: function SetPick(const AText: string; AIndex: Integer): string;
4397: function SetSort(const AText: string): string;
4398: function SetUnion(const Set1, Set2: string): string;
4399: function SetIntersect(const Set1, Set2: string): string;
4400: function SetExclude(const Set1, Set2: string): string;
4401: {replace any <,> etc by &lt;,&gt;}
4402: function XMLSafe(const AText: string): string;
4403: {simple hash, Result can be used in Encrypt}
4404: function Hash(const AText: string): Integer;
4405: { Base64 encode and decode a string }
4406: function B64Encode(const S: AnsiString): AnsiString;
4407: function B64Decode(const S: AnsiString): AnsiString;
4408: {Basic encryption from a Borland Example}
4409: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4410: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4411: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4412: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4413: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4414: procedure CSVToTags(Src, Dst: TStringList);
4415: // converts a csv list to a tagged string list
4416: procedure TagsToCSV(Src, Dst: TStringList);
4417: // converts a tagged string list to a csv list
4418: // only fieldnames from the first record are scanned in the other records
4419: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4420: {selects akey=avalue from Src and returns recordset in Dst}
4421: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4422: {filters Src for akey=avalue}
4423: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4424: {orders a tagged Src list by akey}
4425: function PosStr(const FindString, SourceString: string);
4426: StartPos: Integer = 1): Integer;
4427: { PosStr searches the first occurrence of a substring FindString in a string
4428: given by SourceString with case sensitivity (upper and lower case characters
4429: are differed). This function returns the index value of the first character
4430: of a specified substring from which it occurs in a given string starting with
4431: StartPos character index. If a specified substring is not found Q_PosStr
4432: returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4433: function PosStrLast(const FindString, SourceString: string): Integer;
4434: {finds the last occurrence}
4435: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4436: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4437: { PosText searches the first occurrence of a substring FindString in a string
4438: given by SourceString without case sensitivity (upper and lower case characters are not differed). This
4439: function returns the index value of the first character of a specified substring from which it occurs in a
4440: given string starting with Start
4441: function PosTextLast(const FindString, SourceString: string): Integer;
4442: {$IFDEF MSWINDOWS}
4443: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4444: {$ENDIF MSWINDOWS}
4445: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4446: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4447: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4448: procedure SaveString(const AFile, AText: string);
4449: Procedure SaveStringasFile( const AFile, AText : string)

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4450: function LoadStringJ(const AFile: string): string;
4451: Function LoadStringOfFile( const AFile : string ) : string
4452: Procedure SaveStringToFile( const AFile, AText : string)
4453: Function LoadStringFromFile( const AFile : string ) : string
4454: function HexToColor(const AText: string): TColor;
4455: function UppercaseHTMLTags(const AText: string): string;
4456: function LowercaseHTMLTags(const AText: string): string;
4457: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4458: function RelativePath(const ASrc, ADst: string): string;
4459: function GetToken(var Start: Integer; const SourceText: string): string;
4460: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4461: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4462: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4463: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4464: // parses the beginning of an attribute: space + alpha character
4465: function ParseAttribute(var Start:Integer; const SourceText:string; var AName,AValue:string): Boolean;
4466: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4467: procedure ParseAttributes(const SourceText: string; Attributes: TStrings);
4468: // parses all name=value attributes to the attributes TStringList
4469: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4470: // checks if a name="value" pair exists and returns any value
4471: function GetStrValue(const AText, AName, ADefault: string): string;
4472: // retrieves string value from a line like:
4473: // name="jan verhoeven" email="janl dott verhoeven att wxs dott nl"
4474: // returns ADefault when not found
4475: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4476: // same for a color
4477: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4478: // same for an Integer
4479: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4480: // same for a float
4481: function GetBoolValue(const AText, AName: string): Boolean;
4482: // same for Boolean but without default
4483: function GetValue(const AText, AName: string): string;
4484: //retrieves string value from a line like: name="jan verhoeven" email="janl verhoeven att wxs dott nl"
4485: procedure SetValue(var AText: string; const AName, AValue: string);
4486: // sets a string value in a line
4487: procedure DeleteValue(var AText: string; const AName: string);
4488: // deletes a AName="value" pair from AText
4489: procedure GetNames(AText: string; Alist: TStringList);
4490: // get a list of names from a string with name="value" pairs
4491: function GetHTMLColor(AColor: TColor): string;
4492: // converts a color value to the HTML hex value
4493: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4494: // finds a string backward case sensitive
4495: function BackPostText(Start: Integer; const FindString, SourceString: string): Integer;
4496: // finds a string backward case insensitive
4497: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4498: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4499: // finds a text range, e.g. <TD>....</TD> case sensitive
4500: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4501: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4502: // finds a text range, e.g. <TD>....</td> case insensitive
4503: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4504: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4505: // finds a text range backward, e.g. <TD>....</TD> case sensitive
4506: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4507: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4508: // finds a text range backward, e.g. <TD>....</td> case insensitive
4509: function PosTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4510: var RangeEnd: Integer): Boolean;
4511: // finds a HTML or XML tag: <....>
4512: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4513: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4514: // finds the innertext between opening and closing tags
4515: function Easter(NYear: Integer): TDateTime;
4516: // returns the easter date of a year.
4517: function GetWeekNumber(Today: TDateTime): string;
4518: //gets a datecode. Returns year and weeknumber in format: YYWW
4519: function ParseNumber(const S: string): Integer;
4520: // parse number returns the last position, starting from 1
4521: function ParseDate(const S: string): Integer;
4522: // parse a SQL style date string from positions 1,
4523: // starts and ends with #
4524:
4525: *****unit JvJCLUtils;*****
4526:
4527: function VarIsInt(Value: Variant): Boolean;
4528: // VarIsInt returns VarIsOrdinal-[varBoolean]
4529: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4530: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4531: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4532: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4533: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4534: function GetWordOnPos(const S: string; const P: Integer): string;
4535: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4536: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4537: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4538: { GetWordOnPosEx working like GetWordOnPos function, but

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4539: also returns Word position in iBeg, iEnd variables }
4540: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4541: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4542: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4543: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4544: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4545: { GetEndPosCaret returns the caret position of the last char. For the position
4546:   after the last char of Text you must add 1 to the returned X value. }
4547: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4548: { GetEndPosCaret returns the caret position of the last char. For the position
4549:   after the last char of Text you must add 1 to the returned X value. }
4550: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4551: function SubStrBySeparator(const S:string;const Index:Integer;const
4552: Separator:string;startIndex:Int=1):string;
4552: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
4553: Separator:WideString;startIndex:Int:WideString;
4554: { SubStrEnd same to previous function but Index numerated from the end of string }
4554: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4555: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4556: function SubWord(P: PChar; var P2: PChar): string;
4557: function CurrencyByWord(Value: Currency): string;
4558: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4559: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4560: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4561: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4562: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4563: { ReplaceString searches for all substrings, OldPattern,
4564:   in a string, S, and replaces them with NewPattern }
4565: function ReplaceString(S: string; const OldPattern,NewPattern: string; StartIndex:Integer = 1):string;
4566: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
4567: WideString;StartIndex:Integer=1):WideString;
4568: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4568: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4569: SUPPORTS_INLINE}
4569: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4570: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4570: SUPPORTS_INLINE}
4571:
4572: { Next 4 function for russian chars transliterating.
4573:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4574: procedure Dos2Win(var S: AnsiString);
4575: procedure Win2Dos(var S: AnsiString);
4576: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4577: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4578: function Win2Koi(const S: AnsiString): AnsiString;
4579: { FillString fills the string Buffer with Count Chars }
4580: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4581: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4582: { MoveString copies Count Chars from Source to Dest }
4583: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
4583: inline; {$ENDIF SUPPORTS_INLINE} overload;
4584: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
4585: DstStartIdx: Integer; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4586: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4587: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4588: { MoveWideChar copies Count WideChars from Source to Dest }
4589: procedure MoveWideChar(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4589: SUPPORTS_INLINE}
4590: { FillNativeChar fills Buffer with Count NativeChars }
4591: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
4591: SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4592: { MoveWideChar copies Count WideChars from Source to Dest }
4593: procedure MoveNativeChar(const Source: string; var Dest: string; Count: Integer); // D2009 internal error {$IFDEF
4593: SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4594: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4595: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4596: { Spaces returns string consists on N space chars }
4597: function Spaces(const N: Integer): string;
4598: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4599: function AddSpaces(const S: string; const N: Integer): string;
4600: function SpacesW(const N: Integer): WideString;
4601: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4602: { function LastDateRUS for russian users only }
4603: { returns date relative to current date: 'åââ åïý íâçàâ' }
4604: function LastDateRUS(const Dat: TDateTime): string;
4605: { CurrencyToStr format Currency, Cur, using ffcurrency float format}
4606: function CurrencyToStr(const Cur: Currency): string;
4607: { HasChar returns True, if Char, Ch, contains in string, S }
4608: function HasChar(const Ch: Char; const S: string): Boolean;
4609: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$IFDEF SUPPORTS_INLINE}
4610: function HasAnyChar(const Chars: string; const S: string): Boolean;
4611: {$IFNDEF COMPILER12_UP}
4612: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$IFDEF SUPPORTS_INLINE}
4613: {$ENDIF ~COMPILER12_UP}
4614: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$IFDEF
4614: SUPPORTS_INLINE}
4615: function CountOfChar(const Ch: Char; const S: string): Integer;
4616: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4616: SUPPORTS_INLINE}

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4617: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4618: function StrLICompW(S1, S2: PWideChar; MaxLen: Integer): Integer;
4619: function StrPosW(S, SubStr: PWideChar): PWideChar;
4620: function StrLenW(S: PWideChar): Integer;
4621: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4622: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4623: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4624: TPixelFormat', '( pfDevice, pf1bit, pf4bit, pf8bit, pf24bit )
4625: TMappingMethod', '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4626: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4627: Function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4628: Procedure SetBitmapPixelFormat( Bitmap : TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4629: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4630: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4631: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4632: Procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer )
4633: Function ScreenPixelFormat : TPixelFormat
4634: Function ScreenColorCount : Integer
4635: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic )
4636: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4637: // SIRegister_TJvGradient(CL);
4638:
4639: {***** files routines}
4640: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4641: const
4642: {$IFDEF MSWINDOWS}
4643: DefaultCaseSensitivity = False;
4644: {$ENDIF MSWINDOWS}
4645: {$IFDEF UNIX}
4646: DefaultCaseSensitivity = True;
4647: {$ENDIF UNIX}
4648: { GenTempFileName returns temporary file name on
4649:   drive, there FileName is placed }
4650: function GenTempFileName(FileName: string): string;
4651: { GenTempFileNameExt same to previous function, but
4652:   returning filename has given extension, FileExt }
4653: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4654: { ClearDir clears folder Dir }
4655: function ClearDir(const Dir: string): Boolean;
4656: { DeleteDir clears and than delete folder Dir }
4657: function DeleteDir(const Dir: string): Boolean;
4658: { FileEqMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4659: function FileEqMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4660: { FileEqMasks returns True if file, FileName, is compatible with given Masks.
4661:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4662: function FileEqMasks(FileName, Masks: TFileName;
4663:   CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4664: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4665: {$IFDEF MSWINDOWS}
4666: { LZFileExpand expand file, FileSource,
4667:   into FileDest. Given file must be compressed, using MS Compress program }
4668: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4669: {$ENDIF MSWINDOWS}
4670: { FileGetInfo fills SearchRec record for specified file attributes}
4671: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4672: { HasSubFolder returns True, if folder APath contains other folders }
4673: function HasSubFolder(APath: TFileName): Boolean;
4674: { IsEmptyFolder returns True, if there are no files or
4675:   folders in given folder, APath}
4676: function IsEmptyFolder(APath: TFileName): Boolean;
4677: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4678: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4679: { AddPath returns FileName with Path, if FileName not contain any path }
4680: function AddPath(const FileName, Path: TFileName): TFileName;
4681: function AddPaths(const PathList, Path: string): string;
4682: function ParentPath(const Path: TFileName): TFileName;
4683: function FindInPath(const FileName, PathList: string): TFileName;
4684: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4685: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4686: { HasParam returns True, if program running with specified parameter, Param }
4687: function HasParam(const Param: string): Boolean;
4688: function HasSwitch(const Param: string): Boolean;
4689: function Switch(const Param: string): string;
4690: { ExePath returns ExtractFilePath(ParamStr(0)) }
4691: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4692: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4693: //function FileTimeToDate(FT: TFileTime): TDate;
4694: procedure FileTimeToDosDateTimeDWord(const FT: TFileTime; out Dft: DWORD);
4695: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4696: {**** Graphic routines }
4697: { IsTTFontSelected returns True, if True Type font is selected in specified device context }
4698: function IsTTFontSelected(const DC: HDC): Boolean;
4699: function KeyPressed(VK: Integer): Boolean;
4700: Function isKeypressed: boolean; //true if key on memo2 (shell output) is pressed
4701: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4702: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4703: {**** Color routines }
4704: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);

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4705: function RGBToBGR(Value: Cardinal): Cardinal;
4706: //function ColorToPrettyName(Value: TColor): string;
4707: //function PrettyNameToColor(const Value: string): TColor;
4708: {**** other routines }
4709: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4710: function IntPower(Base, Exponent: Integer): Integer;
4711: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4712: function StrToBool(const S: string): Boolean;
4713: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4714: function VarToInt(V: Variant): Integer;
4715: function VarToFloat(V: Variant): Double;
4716: { following functions are not documented because they not work properly sometimes, so do not use them }
4717: // (rom) ReplaceStrings1, GetSubStr removed
4718: function GetLongFileName(const FileName: string): string;
4719: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4720: function GetParameter: string;
4721: function GetComputerID: string;
4722: function GetComputerName: string;
4723: {**** string routines }
4724: { ReplaceAllStrings searches for all substrings, Words,
4725:   in a string, S, and replaces them with Frases with the same Index. }
4726: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4727: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4728:   in the list, Words, and if founds, replaces this Word with string from another list,Frases, with the
4729:   same Index, and then update NewSelStart variable }
4729: function ReplaceStrings(const S:string;PosBeg,Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4730: { CountOfLines calculates the lines count in a string, S,
4731:   each line must be separated from another with Crlf sequence }
4732: function CountOfLines(const S: string): Integer;
4733: { DeleteLines deletes all lines from strings which in the words, words.
4734:   The word of will be deleted from strings. }
4735: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4736: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4737:   Lines contained only spaces also deletes. }
4738: procedure DeleteEmptyLines(Ss: TStrings);
4739: { SQLAddWhere addes or modifies existing where-statement, where,
4740:   to the strings, SQL. Note: If strings SQL alreadly contains where-statement,
4741:   it must be started on the begining of any line }
4742: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4743: {**** files routines - }
4744: {$IFDEF MSWINDOWS}
4745: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4746:   Resource can be compressed using MS Compress program}
4747: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4748: function ResSaveToFileEx(Instance:HINST;Typ,Name:PChar;const Compressed:Boolean;const FileName:string): Boolean;
4749: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4750: {$ENDIF MSWINDOWS}
4751: { IniReadSection read section, Section, from ini-file,
4752:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4753:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
4754: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4755: { LoadTextFile load text file, FileName, into string }
4756: function LoadTextFile(const FileName: TFileName): string;
4757: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4758: { ReadFolder reads files list from disk folder,Folder,that are equal to mask, Mask,into strings, FileList}
4759: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4760: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4761: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4762: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4763: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
4764: function RATextOutEx(Canvas: TCanvas; const R, RClip:TRect; const S:string;const CalcHeight:Boolean):Integer;
4765: { RATextCalcHeight calculate needed height for
4766:   correct output, using RATextOut or RATextOutEx functions }
4767: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4768: { Cinema draws some visual effect }
4769: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4770: { Roughed fills rect with special 3D pattern }
4771: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4772: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4773:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4773: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4774: { TextWidth calculate text with for writing using standard desktop font }
4775: function TextWidth(const AStr: string): Integer;
4776: { TextHeight calculate text height for writing using standard desktop font }
4777: function TextHeight(const AStr: string): Integer;
4778: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4779: procedure Error(const Msg: string);
4780: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4781:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4782: {example Text parameter:'Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4783: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4784:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4785: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4786:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4787: function ItemHtPlain(const Text: string): string;
4788: { ClearList - clears list of TObject }
4789: procedure ClearList(List: TList);
4790: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);

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4791: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
4792: { RTTI support }
4793: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4794: function GetPropStr(Obj: TObject; const PropName: string): string;
4795: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4796: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4797: procedure PrepareIniSection(Ss: TStrings);
4798: { following functions are not documented because they are don't work properly, so don't use them }
4799: // (rom) from JvBandWindows to make it obsolete
4800: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4801: // (rom) from JvBandUtils to make it obsolete
4802: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4803: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4804: function CreateIconFromClipboard: TIcon;
4805: { begin JvIconClipboardUtils } { Icon clipboard routines }
4806: function CF_ICON: Word;
4807: procedure AssignClipboardIcon(Icon: TIcon);
4808: { Real-size icons support routines (32-bit only) }
4809: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4810: function CreateRealSizeIcon(Icon: TIcon): HICON;
4811: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4812: {end JvIconClipboardUtils }
4813: function CreateScreenCompatibleDC: HDC;
4814: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4815: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4816: { begin JvRLE } // (rom) changed API for inclusion in JCL
4817: procedure RleCompressTo(InStream, OutStream: TStream);
4818: procedure RleDecompressTo(InStream, OutStream: TStream);
4819: procedure RleCompress(Stream: TStream);
4820: procedure RleDecompress(Stream: TStream);
4821: { end JvRLE } { begin JvDateUtil }
4822: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4823: function IsLeapYear(AYear: Integer): Boolean;
4824: function DaysInAMonth(const AYear, AMonth: Word): Word;
4825: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4826: function FirstDayOfPrevMonth: TDateTime;
4827: function LastDayOfPrevMonth: TDateTime;
4828: function FirstDayOfNextMonth: TDateTime;
4829: function ExtractDay(ADate: TDateTime): Word;
4830: function ExtractMonth(ADate: TDateTime): Word;
4831: function ExtractYear(ADate: TDateTime): Word;
4832: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4833: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4834: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4835: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4836: function Validate(ADate: TDateTime): Boolean;
4837: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4838: function MonthsBetween(Date1, Date2: TDateTime): Double;
4839: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4840: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4841: function DaysBetween(Date1, Date2: TDateTime): Longint;
4842: { The same as previous but if Date2 < Date1 result = 0 }
4843: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4844: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4845: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4846: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4847: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4848: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4849: { String to date conversions }
4850: function GetDateOrder(const DateFormat: string): TDateOrder;
4851: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4852: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4853: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4854: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4855: //function DefDateFormat(AFourDigitYear: Boolean): string;
4856: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4857: function FormatLongDate(Value: TDateTime): string;
4858: function FormatLongDateTime(Value: TDateTime): string;
4859: { end JvDateUtil }
4860: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4861: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4862: { begin JvStrUtils } { ** Common string handling routines ** }
4863: {$IFDEF UNIX}
4864: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4865: { const ToCode, FromCode: AnsiString}): Boolean;
4866: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4867: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4868: function OemStrToAcsi(const S: AnsiString): AnsiString;
4869: function AnsiStrToOem(const S: AnsiString): AnsiString;
4870: {$ENDIF UNIX}
4871: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4872: { StrToOem translates a string from the Windows character set into the OEM character set. }
4873: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4874: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4875: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4876: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4877: function ReplaceStr(const S, Srch, Replace: string): string;
4878: { Returns string with every occurrence of Srch string replaced with Replace string. }

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4879: function DelSpace(const S: string): string;
4880: { DelSpace return a string with all white spaces removed. }
4881: function DelChars(const S: string; Chr: Char): string;
4882: { DelChars return a string with all Chr characters removed. }
4883: function DelBSpace(const S: string): string;
4884: { DelBSpace trims leading spaces from the given string. }
4885: function DelESpace(const S: string): string;
4886: { DelESpace trims trailing spaces from the given string. }
4887: function DelRSpace(const S: string): string;
4888: { DelRSpace trims leading and trailing spaces from the given string. }
4889: function DelSpace1(const S: string): string;
4890: { DelSpace1 return a string with all non-single white spaces removed. }
4891: function Tab2Space(const S: string; Numb: Byte): string;
4892: { Tab2Space converts any tabulation character in the given string to the
4893:   Numb spaces characters. }
4894: function NPos(const C: string; S: string; N: Integer): Integer;
4895: { NPos searches for a N-th position of substring C in a given string. }
4896: function MakeStr(C: Char; N: Integer): string; overload;
4897: {$IFNDEF COMPILER12_UP}
4898: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4899: {$ENDIF !COMPILER12_UP}
4900: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4901: { MakeStr return a string of length N filled with character C. }
4902: function AddChar(C: Char; const S: string; N: Integer): string;
4903: { AddChar return a string left-padded to length N with characters c. }
4904: function AddCharR(C: Char; const S: string; N: Integer): string;
4905: { AddCharR return a string right-padded to length N with characters c. }
4906: function LeftStr(const S: string; N: Integer): string;
4907: { LeftStr return a string right-padded to length N with blanks. }
4908: function RightStr(const S: string; N: Integer): string;
4909: { RightStr return a string left-padded to length N with blanks. }
4910: function CenterStr(const S: string; Len: Integer): string;
4911: { CenterStr centers the characters in the string based upon the Len specified. }
4912: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4913: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4914:   -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4915: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4916: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4917: function Copy2Symb(const S: string; Symb: Char): string;
4918: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4919: function Copy2SymbDel(var S: string; Symb: Char): string;
4920: { Copy2SymbDel returns a substring of a string S from beginning to first
4921:   character Symb and removes this substring from S. }
4922: function Copy2Space(const S: string): string;
4923: { Copy2Space returns a substring of a string S from beginning to first white space. }
4924: function Copy2SpaceDel(var S: string): string;
4925: { Copy2SpaceDel returns a substring of a string S from beginning to first
4926:   white space and removes this substring from S. }
4927: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4928: { Returns string, with the first letter of each word in uppercase,
4929:   all other letters in lowercase. Words are delimited by WordDelims. }
4930: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4931: { WordCount given a set of word delimiters, returns number of words in S. }
4932: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4933: { Given a set of word delimiters, returns start position of N'th word in S. }
4934: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4935: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4936: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4937: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4938:   delimiters, return the N'th word in S. }
4939: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4940: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4941:   that started from position Pos. }
4942: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4943: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4944: function QuotedString(const S: string; Quote: Char): string;
4945: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4946: function ExtractQuotedString(const S: string; Quote: Char): string;
4947: { ExtractQuotedString removes the Quote characters from the beginning and
4948:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4949: function FindPart(const HelpWilds, InputStr: string): Integer;
4950: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4951: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4952: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4953: function XorString(const Key, Src: ShortString): ShortString;
4954: function XorEncode(const Key, Source: string): string;
4955: function XorDecode(const Key, Source: string): string;
4956: { ** Command line routines ** }
4957: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4958: { ** Numeric string handling routines ** }
4959: function Numb2USA(const S: string): string;
4960: { Numb2USA converts numeric string S to USA-format. }
4961: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4962: { Dec2Hex converts the given value to a hexadecimal string representation
4963:   with the minimum number of digits (A) specified. }
4964: function Hex2Dec(const S: string): Longint;
4965: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4966: function Dec2Numb(N: Int64; A, B: Byte): string;
4967: { Dec2Numb converts the given value to a string representation with the

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4968:   base equal to B and with the minimum number of digits (A) specified. }
4969: function Numb2Dec(S: string; B: Byte): Int64;
4970: { Numb2Dec converts the given B-based numeric string to the corresponding
4971:   integer value. }
4972: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4973: { IntToBin converts the given value to a binary string representation
4974:   with the minimum number of digits specified. }
4975: function IntToRoman(Value: Longint): string;
4976: { IntToRoman converts the given value to a roman numeric string representation. }
4977: function RomanToInt(const S: string): Longint;
4978: { RomanToInt converts the given string to an integer value. If the string
4979:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4980: function FindNotBlankCharPos(const S: string): Integer;
4981: function FindNotBlankCharPosW(const S: WideString): Integer;
4982: function AnsiChangeCase(const S: string): string;
4983: function WideChangeCase(const S: string): string;
4984: function StartsText(const SubStr, S: string): Boolean;
4985: function EndsText(const SubStr, S: string): Boolean;
4986: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4987: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4988: {end JvStringUtil}
4989: {$IFDEF UNIX}
4990: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4991: {$ENDIF UNIX}
4992: { begin JvFileUtil }
4993: function FileDateTime(const FileName: string): TDateTime;
4994: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4995: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4996: function NormalDir(const DirName: string): string;
4997: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4998: function ValidFileName(const FileName: string): Boolean;
4999: {$IFDEF MSWINDOWS}
5000: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
5001: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
5002: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
5003: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
5004: {$ENDIF MSWINDOWS}
5005: function GetWindowsDir: string;
5006: function GetSystemDir: string;
5007: function ShortToLongFileName(const ShortName: string): string;
5008: function LongToShortFileName(const LongName: string): string;
5009: function ShortToLongPath(const ShortName: string): string;
5010: function LongToShortPath(const LongName: string): string;
5011: {$IFDEF MSWINDOWS}
5012: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
5013: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
5014: {$ENDIF MSWINDOWS}
5015: { end JvFileUtil }
5016: // Works like PtInRect but includes all edges in comparision
5017: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
5018: // Works like PtInRect but excludes all edges from comparision
5019: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
5020: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
5021: function IsFourDigitYear: Boolean;
5022: { moved from JvJVCLUtils }
5023: //Open an object with the shell (url or something like that)
5024: function OpenObject(const Value: string): Boolean; overload;
5025: function OpenObject(Value: PChar): Boolean; overload;
5026: {$IFDEF MSWINDOWS}
5027: //Raise the last Exception
5028: procedure RaiseLastWin32; overload;
5029: procedure RaiseLastWin32(const Text: string); overload;
5030: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
5031: // significant 32 bits of a file's binary version number. Typically, this includes the major and minor
5032: // version placed together in one 32-bit Integer. I
5033: function GetFileVersion(const AFileName: string): Cardinal;
5034: {$EXTERNALSYM GetFileVersion}
5035: //Get version of Shell.dll
5036: function GetShellVersion: Cardinal;
5037: {$EXTERNALSYM GetShellVersion}
5038: // CD functions on HW
5039: procedure OpenCdDrive;
5040: procedure CloseCdDrive;
5041: // returns True if Drive is accessible
5042: function DiskInDrive(Drive: Char): Boolean;
5043: {$ENDIF MSWINDOWS}
5044: //Same as linux function ;
5045: procedure PError(const Text: string);
5046: // execute a program without waiting
5047: procedure Exec(const FileName, Parameters, Directory: string);
5048: // execute a program and wait for it to finish
5049: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
5050: // returns True if this is the first instance of the program that is running
5051: function FirstInstance(const ATitle: string): Boolean;
5052: // restores a window based on it's classname and Caption. Either can be left empty
5053: // to widen the search
5054: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
5055: // manipulate the traybar and start button
5056: procedure HideTraybar;
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5055: procedure ShowTraybar;
5056: procedure ShowStartButton(Visible: Boolean = True);
5057: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
5058: procedure MonitorOn;
5059: procedure MonitorOff;
5060: procedure LowPower;
5061: // send a key to the window named AppName
5062: function SendKey(const AppName: string; Key: Char): Boolean;
5063: {$IFDEF MSWINDOWS}
5064: // returns a list of all win currently visible, the Objects property is filled with their window handle
5065: procedure GetVisibleWindows(List: TStrings);
5066: Function GetVisibleWindowsF( List : TStrings):TStrings';
5067: // associates an extension to a specific program
5068: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5069: procedure AddToRecentDocs(const FileName: string);
5070: function GetRecentDocs: TStringList;
5071: {$ENDIF MSWINDOWS}
5072: function CharIsMoney(const Ch: Char): Boolean;
5073: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5074: function IntToExtended(I: Integer): Extended;
5075: { GetChangedText works out the new text given the current cursor pos & the key pressed
5076: It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5077: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5078: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5079: //function StrIsInteger(const S: string): Boolean;
5080: function StrIsFloatMoney(const Ps: string): Boolean;
5081: function StrIsDateTime(const Ps: string): Boolean;
5082: function PreformatDateString(Ps: string): string;
5083: function BooleanToInteger(const B: Boolean): Integer;
5084: function StringToBoolean(const Ps: string): Boolean;
5085: function SafeStrToDate(const Ps: string): TDateTime;
5086: function SafeStrToDate(const Ps: string): TDateTime;
5087: function SafeStrToTime(const Ps: string): TDateTime;
5088: function StrDelete(const psSub, psMain: string): string;
5089: { returns the fractional value of pcValue }
5090: function TimeOnly(pcValue: TDateTime): TTime;
5091: { returns the integral value of pcValue }
5092: function DateOnly(pcValue: TDateTime): TDate;
5093: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5094: const { TDateTime value used to signify Null value}
5095: NullEquivalentDate: TDateTime = 0.0;
5096: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5097: // Replacement for Win32Check to avoid platform specific warnings in D6
5098: function OSCheck(RetVal: Boolean): Boolean;
5099: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5100: Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5101: not be forced to use FileCtrl unnecessarily }
5102: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5103: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5104: { MinimizeString truncates long string, S, and appends...'symbols,if Length of S is more than MaxLen }
5105: function MinimizeString(const S: string; const MaxLen: Integer): string;
5106: procedure RunDl32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5107: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
5108: minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
5109: found. }
5108: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5109: {$ENDIF MSWINDOWS}
5110: procedure ResourceNotFound(ResID: PChar);
5111: function EmptyRect: TRect;
5112: function RectWidth(R: TRect): Integer;
5113: function RectHeight(R: TRect): Integer;
5114: function CompareRect(const R1, R2: TRect): Boolean;
5115: procedure RectNormalize(var R: TRect);
5116: function RectIsSquare(const R: TRect): Boolean;
5117: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5118: //IF AMaxSize = -1,then auto calc Square's max size
5119: {$ENDIF MSWINDOWS}
5120: procedure FreeUnusedOle;
5121: function GetWindowsVersion: string;
5122: function LoadDLL(const LibName: string): THandle;
5123: function RegisterServer(const ModuleName: string): Boolean;
5124: function UnregisterServer(const ModuleName: string): Boolean;
5125: {$ENDIF MSWINDOWS}
5126: { String routines }
5127: function GetEnvVar(const VarName: string): string;
5128: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5129: function StringToPChar(var S: string): PChar;
5130: function StrAlloc(const S: string): PChar;
5131: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5132: function DropT(const S: string): string;
5133: { Memory routines }
5134: function AllocMemo(Size: Longint): Pointer;
5135: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5136: procedure FreeMemeo(var fpBlock: Pointer);
5137: function GetMemeoSize(fpBlock: Pointer): Longint;
5138: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5139: { Manipulate huge pointers routines }
5140: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);

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5141: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5142: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5143: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5144: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5145: function WindowClassName(Wnd: THandle): string;
5146: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5147: procedure ActivateWindow(Wnd: THandle);
5148: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5149: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5150: { SetWindowTop put window to top without recreating window }
5151: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5152: procedure CenterWindow(Wnd: THandle);
5153: function MakeVariant(const Values: array of Variant): Variant;
5154: { Convert dialog units to pixels and backwards }
5155: {$IFDEF MSWINDOWS}
5156: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5157: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5158: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5159: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5160: {$ENDIF MSWINDOWS}
5161: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5162: {$IFDEF BCB}
5163: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5164: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5165: {$ELSE}
5166: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5167: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5168: {$ENDIF BCB}
5169: {$IFDEF MSWINDOWS}
5170: { BrowseForFolderNative displays Browse For Folder dialog }
5171: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5172: {$ENDIF MSWINDOWS}
5173: procedure AntiAlias(Clip: TBitmap);
5174: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5175: procedure CopyRectIBits(ACanvas: TCanvas; const DestRect: TRect;
5176: ABitmap: TBitmap; const SourceRect: TRect);
5177: function IsTrueType(const FontName: string): Boolean;
5178: // Removes all non-numeric characters from AValue and returns the resulting string
5179: function TextToValText(const AValue: string): string;
5180: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean
5181: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings )
5182: Function ReplaceRegExpr( const ARegExpr,AInputStr,
5183: AReplaceStr:RegExprString;AUseSubstitution:bool):RegExprString;
5184: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString
5185: Function RegExprSubExpressions(const ARegExpr:string; ASubExprs:TStrings; AExtendedSyntax : boolean) :
5186: *****unit uPSI_JvTFUtils;
5187: Function JExtractYear( ADate : TDateTime ) : Word
5188: Function JExtractMonth( ADate : TDateTime ) : Word
5189: Function JExtractDay( ADate : TDateTime ) : Word
5190: Function ExtractHours( ATime : TDateTime ) : Word
5191: Function ExtractMins( ATime : TDateTime ) : Word
5192: Function ExtractSecs( ATime : TDateTime ) : Word
5193: Function ExtractMSecs( ATime : TDateTime ) : Word
5194: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5195: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5196: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5197: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )
5198: Procedure IncDOW( var DOW : TTFFDayOfWeek; N : Integer )
5199: Procedure IncDays( var ADate : TDateTime; N : Integer )
5200: Procedure IncWeeks( var ADate : TDateTime; N : Integer )
5201: Procedure IncMonths( var ADate : TDateTime; N : Integer )
5202: Procedure IncYears( var ADate : TDateTime; N : Integer )
5203: Function EndOfMonth( ADate : TDateTime ) : TDateTime
5204: Function IsFirstOfMonth( ADate : TDateTime ) : Boolean
5205: Function IsEndOfMonth( ADate : TDateTime ) : Boolean
5206: Procedure EnsureMonth( Month : Word )
5207: Procedure EnsureDOW( DOW : Word )
5208: Function EqualDates( D1, D2 : TDateTime ) : Boolean
5209: Function Lesser( N1, N2 : Integer ) : Integer
5210: Function Greater( N1, N2 : Integer ) : Integer
5211: Function GetDivLength( TotalLength, DivCount, DivNum : Integer ) : Integer
5212: Function GetDivNum( TotalLength, DivCount, X : Integer ) : Integer
5213: Function GetDivStart( TotalLength, DivCount, DivNum : Integer ) : Integer
5214: Function DOWToBorl( ADOW : TTFFDayOfWeek ) : Integer
5215: Function BorlToDOW( BorlDOW : Integer ) : TTFFDayOfWeek
5216: Function DateToDOW( ADate : TDateTime ) : TTFFDayOfWeek
5217: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
5218: AFont:TFont;AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5219: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
5220: HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5221: Function JRectWidth( ARect : TRect ) : Integer
5222: Function JRectHeight( ARect : TRect ) : Integer
5223: Function JEmptyRect : TRect
5224: Function IsClassByName( Obj : TObject; ClassName : string ) : Boolean
5225: begin
5226: Procedure HideTaskBarButton( hWindow : HWND )

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5227: Function msLoadStr( ID : Integer ) : String
5228: Function msFormat( fmt : String; params : array of const ) : String
5229: Function msFileExists( const FileName : String ) : Boolean
5230: Function msIntToStr( Int : Int64 ) : String
5231: Function msStrPas( const Str : PChar ) : String
5232: Function msRenamefile( const OldName, NewName : String ) : Boolean
5233: Function CutFileName( s : String ) : String
5234: Function GetVersionInfo( var VersionString : String ) : DWORD
5235: Function FormatTime( t : Cardinal ) : String
5236: Function msCreateDir( const Dir : string ) : Boolean
5237: Function SetAutoRun( NeedAutoRun : Boolean; AppName : String ) : Boolean
5238: Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword ) : DWORD
5239: Function msStrLen( Str : PChar ) : Integer
5240: Function msDirectoryExists( const Directory : String ) : Boolean
5241: Function GetFolder( hWnd : hWnd; RootDir : Integer; Caption : String ) : String
5242: Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte ) : LongBool
5243: Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
5244: Procedure SetEditWndProc( hWnd : HWND; ptr : TObject )
5245: Function GetTextFromFile( Filename : String ) : string
5246: Function IsTopMost( hWnd : HWND ) : Bool // 'LWA_ALPHA', 'LongWord').SetUIInt( $00000002 );
5247: Function msStrToIntDef( const s : String; const i : Integer ) : Integer
5248: Function msStrToInt( s : String ) : Integer
5249: Function GetItemText( hDlg : THandle; ID : DWORD ) : String
5250: end;
5251:
5252: procedure SIRegister_ESBMaths2(CL: TPSPPascalCompiler);
5253: begin
5254:   //TDynFloatArray', 'array of Extended
5255:   TDynLWordArray', 'array of LongWord
5256:   TDynLIntArray', 'array of LongInt
5257:   TDynFloatMatrix', 'array of TDynFloatArray
5258:   TDynLWordMatrix', 'array of TDynLWordArray
5259:   TDynLIntMatrix', 'array of TDynLIntArray
5260:   Function SquareAll( const X : TDynFloatArray ) : TDynFloatArray
5261:   Function InverseAll( const X : TDynFloatArray ) : TDynFloatArray
5262:   Function LnAll( const X : TDynFloatArray ) : TDynFloatArray
5263:   Function Log10All( const X : TDynFloatArray ) : TDynFloatArray
5264:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended ) : TDynFloatArray
5265:   Function AddVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5266:   Function SubVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5267:   Function MultVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5268:   Function DotProduct( const X, Y : TDynFloatArray ) : Extended
5269:   Function MNorm( const X : TDynFloatArray ) : Extended
5270:   Function MatrixIsRectangular( const X : TDynFloatMatrix ) : Boolean
5271:   Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean);
5272:   Function MatrixIsSquare( const X : TDynFloatMatrix ) : Boolean
5273:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix ) : Boolean
5274:   Function AddMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix
5275:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix )
5276:   Function SubtractMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix
5277:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix )
5278:   Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended ) : TDynFloatMatrix
5279:   Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended );
5280:   Function MultiplyMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix;
5281:   Function TransposeMatrix( const X : TDynFloatMatrix ) : TDynFloatMatrix;
5282:   Function GrandMean( const X : TDynFloatMatrix; var N : LongWord ) : Extended
5283: end;
5284:
5285: procedure SIRegister_ESBMaths(CL: TPSPPascalCompiler);
5286: begin
5287:   'ESBMinSingle','Single').setExtended( 1.5e-45 );
5288:   'ESBMaxSingle','Single').setExtended( 3.4e+38 );
5289:   'ESBMinDouble','Double').setExtended( 5.0e-324 );
5290:   'ESBMaxDouble','Double').setExtended( 1.7e+308 );
5291:   'ESBMinExtended','Extended').setExtended( 3.6e-4951 );
5292:   'ESBMaxExtended','Extended').setExtended( 1.1e+4932 );
5293:   'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807 );
5294:   'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807 );
5295:   'ESBSqrt2','Extended').setExtended( 1.4142135623730950488 );
5296:   'ESBSqrt3','Extended').setExtended( 1.7320508075688772935 );
5297:   'ESBSqrt5','Extended').setExtended( 2.2360679774997896964 );
5298:   'ESBSqrt10','Extended').setExtended( 3.1622776601683793320 );
5299:   'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729 );
5300:   'ESBCbrt2','Extended').setExtended( 1.2599210498948731648 );
5301:   'ESBCbrt3','Extended').setExtended( 1.4422495703074083823 );
5302:   'ESBCbrt10','Extended').setExtended( 2.1544346900318837219 );
5303:   'ESBCbrt100','Extended').setExtended( 4.6415888336127788924 );
5304:   'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630 );
5305:   'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440 );
5306:   'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451 );
5307:   'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928 );
5308:   'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695 );
5309:   'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147 );
5310:   'ESBe','Extended').setExtended( 2.7182818284590452354 );
5311:   'ESBe2','Extended').setExtended( 7.3890560989306502272 );
5312:   'ESBePi','Extended').setExtended( 23.140692632779269006 );
5313:   'ESBePiOn2','Extended').setExtended( 4.8104773809653516555 );
5314:   'ESBePiOn4','Extended').setExtended( 2.1932800507380154566 );
5315:   'ESBLn2','Extended').setExtended( 0.69314718055994530942 );

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5316: 'ESBLn10','Extended').setExtended( 2.30258509299404568402);
5317: 'ESBLnPi','Extended').setExtended( 1.14472988584940017414);
5318: 'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478);
5319: 'ESBLog2Base10','Extended').setExtended( 0.30102999566398119521);
5320: 'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730);
5321: 'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339);
5322: 'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765);
5323: 'ESBPi','Extended').setExtended( 3.1415926535897932385);
5324: 'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1);
5325: 'ESBTwopi','Extended').setExtended( 6.2831853071795864769);
5326: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5327: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5328: 'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5329: 'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5330: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5331: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5332: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5333: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5334: 'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0);
5335: 'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5336: 'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5337: 'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5338: 'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5339: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5340: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5341: //LongWord', 'Cardinal
5342: TBitList', 'Word
5343: Function UMul( const Num1, Num2 : LongWord) : LongWord
5344: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5345: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5346: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5347: Function SameFloat( const X1, X2 : Extended) : Boolean
5348: Function FloatIsZero( const X : Extended) : Boolean
5349: Function FloatIsPositive( const X : Extended) : Boolean
5350: Function FloatIsNegative( const X : Extended) : Boolean
5351: Procedure IncLim( var B : Byte; const Limit : Byte)
5352: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5353: Procedure IncLimW( var B : Word; const Limit : Word)
5354: Procedure IncLimI( var B : Integer; const Limit : Integer)
5355: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5356: Procedure DecLim( var B : Byte; const Limit : Byte)
5357: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5358: Procedure DecLimW( var B : Word; const Limit : Word)
5359: Procedure DecLimI( var B : Integer; const Limit : Integer)
5360: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5361: Function MaxB( const B1, B2 : Byte) : Byte
5362: Function MinB( const B1, B2 : Byte) : Byte
5363: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5364: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5365: Function MaxW( const B1, B2 : Word) : Word
5366: Function MinW( const B1, B2 : Word) : Word
5367: Function esbMaxI( const B1, B2 : Integer) : Integer
5368: Function esbMinI( const B1, B2 : Integer) : Integer
5369: Function MaxL( const B1, B2 : LongInt) : LongInt
5370: Function MinL( const B1, B2 : LongInt) : LongInt
5371: Procedure SwapB( var B1, B2 : Byte)
5372: Procedure SwapSI( var B1, B2 : ShortInt)
5373: Procedure SwapW( var B1, B2 : Word)
5374: Procedure SwapI( var B1, B2 : SmallInt)
5375: Procedure SwapL( var B1, B2 : LongInt)
5376: Procedure SwapI32( var B1, B2 : Integer)
5377: Procedure SwapC( var B1, B2 : LongWord)
5378: Procedure SwapInt64( var X, Y : Int64)
5379: Function esbSign( const B : LongInt) : ShortInt
5380: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5381: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5382: Function Max3Word( const X1, X2, X3 : Word) : Word
5383: Function Min3Word( const X1, X2, X3 : Word) : Word
5384: Function MaxBArray( const B : array of Byte) : Byte
5385: Function MaxWArray( const B : array of Word) : Word
5386: Function MaxSIArry( const B : array of Shortint) : ShortInt
5387: Function MaxIArry( const B : array of Integer) : Integer
5388: Function MaxLArry( const B : array of LongInt) : LongInt
5389: Function MinBArry( const B : array of Byte) : Byte
5390: Function MinWArry( const B : array of Word) : Word
5391: Function MinSIArry( const B : array of Shortint) : ShortInt
5392: Function MinIArry( const B : array of Integer) : Integer
5393: Function MinLArry( const B : array of Longint) : Longint
5394: Function SumBArray( const B : array of Byte) : Byte
5395: Function SumBArray2( const B : array of Byte) : Word
5396: Function SumSIArry( const B : array of ShortInt) : ShortInt
5397: Function SumSIArry2( const B : array of ShortInt) : Integer
5398: Function SumWArray( const B : array of Word) : Word
5399: Function SumWArray2( const B : array of Word) : LongInt
5400: Function SumIArray( const B : array of Integer) : Integer
5401: Function SumLArray( const B : array of LongInt) : LongInt
5402: Function SumLWArray( const B : array of LongWord) : LongWord
5403: Function ESBDigits( const X : LongWord) : Byte
5404: Function BitsHighest( const X : LongWord) : Integer

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5405: Function ESBitsNeeded( const X : LongWord) : Integer
5406: Function esbGCD( const X, Y : LongWord) : LongWord
5407: Function esbLCM( const X, Y : LongInt) : Int64
5408: //Function esbLCM( const X, Y : LongInt) : LongInt
5409: Function RelativePrime( const X, Y : LongWord) : Boolean
5410: Function Get87ControlWord : TBitList
5411: Procedure Set87ControlWord( const CWord : TBitList)
5412: Procedure SwapExt( var X, Y : Extended)
5413: Procedure SwapDbl( var X, Y : Double)
5414: Procedure SwapSing( var X, Y : Single)
5415: Function esbSgn( const X : Extended) : ShortInt
5416: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5417: Function ExtMod( const X, Y : Extended) : Extended
5418: Function ExtRem( const X, Y : Extended) : Extended
5419: Function CompMOD( const X, Y : Comp) : Comp
5420: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5421: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5422: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5423: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5424: Function MaxExt( const X, Y : Extended) : Extended
5425: Function MinExt( const X, Y : Extended) : Extended
5426: Function MaxEArray( const B : array of Extended) : Extended
5427: Function MinEArray( const B : array of Extended) : Extended
5428: Function MaxSArray( const B : array of Single) : Single
5429: Function MinSArray( const B : array of Single) : Single
5430: Function MaxCArray( const B : array of Comp) : Comp
5431: Function MinCArray( const B : array of Comp) : Comp
5432: Function SumSArray( const B : array of Single) : Single
5433: Function SumEArray( const B : array of Extended) : Extended
5434: Function SumSqEArray( const B : array of Extended) : Extended
5435: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5436: Function SumXEArray( const X, Y : array of Extended) : Extended
5437: Function SumCArray( const B : array of Comp) : Comp
5438: Function FactorialX( A : LongWord) : Extended
5439: Function PermutationX( N, R : LongWord) : Extended
5440: Function esbBinomialCoeff( N, R : LongWord) : Extended
5441: Function IsPositiveEArray( const X : array of Extended) : Boolean
5442: Function esbGeometricMean( const X : array of Extended) : Extended
5443: Function esbHarmonicMean( const X : array of Extended) : Extended
5444: Function ESBMean( const X : array of Extended) : Extended
5445: Function esbSampleVariance( const X : array of Extended) : Extended
5446: Function esbPopulationVariance( const X : array of Extended) : Extended
5447: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5448: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5449: Function GetMedian( const SortedX : array of Extended) : Extended
5450: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5451: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5452: Function ESBMagnitude( const X : Extended) : Integer
5453: Function ESBTan( Angle : Extended) : Extended
5454: Function ESB Cot( Angle : Extended) : Extended
5455: Function ESB Cosec( const Angle : Extended) : Extended
5456: Function ESB Sec( const Angle : Extended) : Extended
5457: Function ESB ArcTan( X, Y : Extended) : Extended
5458: Procedure ESB SinCos( Angle : Extended; var SinX, CosX : Extended)
5459: Function ESB ArcCos( const X : Extended) : Extended
5460: Function ESB ArcSin( const X : Extended) : Extended
5461: Function ESB ArcSec( const X : Extended) : Extended
5462: Function ESB ArcCosec( const X : Extended) : Extended
5463: Function ESB Log10( const X : Extended) : Extended
5464: Function ESB Log2( const X : Extended) : Extended
5465: Function ESB LogBase( const X, Base : Extended) : Extended
5466: Function Pow2( const X : Extended) : Extended
5467: Function IntPow( const Base : Extended; const Exponent : LongWord) : Extended
5468: Function ESB IntPower( const X : Extended; const N : LongInt) : Extended
5469: Function XtoY( const X, Y : Extended) : Extended
5470: Function esbTentToY( const Y : Extended) : Extended
5471: Function esbTwoToY( const Y : Extended) : Extended
5472: Function LogXtoBaseY( const X, Y : Extended) : Extended
5473: Function esbISqr( const I : LongWord) : Longword
5474: Function ILLog2( const I : LongWord) : LongWord
5475: Function IGreatestPowerOf2( const N : LongWord) : LongWord
5476: Function ESB ArCosh( X : Extended) : Extended
5477: Function ESB ArSinh( X : Extended) : Extended
5478: Function ESB ArTanh( X : Extended) : Extended
5479: Function ESB Cosh( X : Extended) : Extended
5480: Function ESB Sinh( X : Extended) : Extended
5481: Function ESB Tanh( X : Extended) : Extended
5482: Function InverseGamma( const X : Extended) : Extended
5483: Function esbGamma( const X : Extended) : Extended
5484: Function esbLnGamma( const X : Extended) : Extended
5485: Function esbBeta( const X, Y : Extended) : Extended
5486: Function IncompleteBeta( X : Extended; P, Q : Extended) : Extended
5487: end;
5488:
5489: *****Integer Huge Cardinal Utils*****
5490: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean) : uint64
5491: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean) : uint32
5492: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean) : uint64
5493: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean) : uint32

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5494: Function BitCount_8( Value : byte ) : integer
5495: Function BitCount_16( Value : uint16 ) : integer
5496: Function BitCount_32( Value : uint32 ) : integer
5497: Function BitCount_64( Value : uint64 ) : integer
5498: Function CountSetBits_64( Value : uint64 ) : integer TPrimalityTestNoticeProc',
5499: Procedure ( CountPrimalityTests : integer )
5500: Function gcd( a, b : THugeCardinal ) : THugeCardinal
5501: Function lcm( a, b : THugeCardinal ) : THugeCardinal
5502: Function isCoPrime( a, b : THugeCardinal ) : boolean
5503: Function isProbablyPrime(p: THugeCardinal;OnProgress: TProgress; var wasAborted: boolean): boolean
5504: Function hasSmallFactor( p : THugeCardinal ) : boolean
5505: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
NumbersTested: integer ) : boolean
5506: Function Inverse( Prime, Modulus : THugeCardinal ) : THugeCardinal
5507: Const ('StandardExponent','LongInt'( 65537 );
5508: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
Numbers
5509: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal ) : boolean')
5510:
5511: procedure SIRegister_xrtl_math_Integer(CL: TPSPascalCompiler);
5512: begin
5513: AddTypes('TXRTLInteger', 'array of Integer
5514: AddClassN(FindClass('TOBJECT'), 'EXRTLMathException
5515: (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument
5516: AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero
5517: AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument
5518: AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix
5519: AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit
5520: AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument
5521: 'BitsPerByte','LongInt'( 8 );
5522: BitsPerDigit','LongInt'( 32 );
5523: SignBitMask','LongWord( $80000000 );
5524: Function XRTLAdjustBits( const ABits : Integer ) : Integer
5525: Function XRTLLength( const AInteger : TXRTLInteger ) : Integer
5526: Function XRTLDataBits( const AInteger : TXRTLInteger ) : Integer
5527: Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer )
5528: Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer )
5529: Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer )
5530: Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Integer
5531: Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Boolean
5532: Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int16;var AResult:TXRTLInteger):Int
5533: Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5534: Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5535: Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5536: Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5537: Procedure XRTLOr( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5538: Procedure XRTLand( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5539: Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5540: Function XRTLSign( const AInteger : TXRTLInteger ) : Integer
5541: Procedure XRTLZero( var AInteger : TXRTLInteger )
5542: Procedure XRTLOne( var AInteger : TXRTLInteger )
5543: Procedure XRTLMOne( var AInteger : TXRTLInteger )
5544: Procedure XRTLTwo( var AInteger : TXRTLInteger )
5545: Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5546: Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5547: Procedure XRTLFULLsum( const A, B, C : Integer; var Sum, Carry : Integer )
5548: Function XRTLAAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5549: Function XRTLAAdd1(const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5550: Function XRTLSUB( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5551: Function XRTLSUBL( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5552: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger ) : Integer;
5553: Function XRTLCOMPARE( const AInteger1 : TXRTLInteger; const AInteger2 : Int64 ) : Integer;
5554: Function XRTLUMUL( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5555: Function XRTLMULADD(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer
5556: Function XRTLMUL( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5557: Procedure XRTLDIVMOD( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger )
5558: Procedure XRTLSQR( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5559: Procedure XRTLSQRT( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5560: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5561: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHHighApproxResult:TXRTLInteger)
5562: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHHighApproxResult:TXRTLInteger);
5563: Procedure XRTLEXP( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5564: Procedure XRTLEXPMOD( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult: TXRTLInteger )
5565: Procedure XRTLSLBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5566: Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5567: Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5568: Procedure XRTLSLDL(const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger)
5569: Procedure XRTLSADL(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5570: Procedure XRTLRCDL(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5571: Procedure XRTLSLBLR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5572: Procedure XRTLSABRL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5573: Procedure XRTLRCBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5574: Procedure XRTLSLDR(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5575: Procedure XRTLSADR(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5576: Procedure XRTLRCDR(const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger)

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5577: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer ) : string
5578: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer ) : string
5579: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer ) : string
5580: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger )
5581: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger )
5582: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer )
5583: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5584: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger );
5585: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger );
5586: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger )
5587: Procedure XRTLSplit( const AInteger : TXRTLInteger; var ALow, AHigh : TXRTLInteger; LowDigits: Integer )
5588: Function XRTLGetMSBIndex( const AInteger : TXRTLInteger ) : Integer
5589: Procedure XRTLMINMax( const AInteger1, AInteger2 : TXRTLInteger; var AMinResult, AMaxResult : TXRTLInteger )
5590: Procedure XRTLMIN( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5591: Procedure XRTLMINl( const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger );
5592: Procedure XRTLMAX( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5593: Procedure XRTLMAXl( const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger );
5594: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5595: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger )
5596: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5597: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5598: end;
5599:
5600: procedure SIRegister_JvXPCoreUtils(CL: TPSCompiler);
5601: begin
5602:   Function JvXPMethodsEqual( const Method1, Method2 : TMethod ) : Boolean
5603:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer )
5604:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TjvXPGradientColors;const Style:TjvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap );
5605:   Procedure JvXPADJustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TjvXPBoundLines; var Rect : TRect )
5606:   Procedure JvXPDrawBoundLines(const ACan:TCanvas;const BoundLns:TjvXPBoundLns;const
      AColor:TColor;Rect:TRect;
5607:   Procedure JvXPConvertToGray2( Bitmap : TBitmap )
5608:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer )
5609:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool ;
5610:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor )
5611:   Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer )
5612:   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 )
5613: end;
5614:
5615:
5616: procedure SIRegister_uwinstr(CL: TPSCompiler);
5617: begin
5618:   Function StrDec( S : String ) : String
5619:   Function uIsNumeric( var S : String; var X : Float ) : Boolean
5620:   Function ReadNumFromEdit( Edit : TEdit ) : Float
5621:   Procedure WriteNumToFile( var F : Text; X : Float )
5622: end;
5623:
5624: procedure SIRegister_utexplot(CL: TPSCompiler);
5625: begin
5626:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean ) : Boolean
5627:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
5628:   Procedure TeX_LeaveGraphics( Footer : Boolean )
5629:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
5630:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
5631:   Procedure TeX_SetGraphTitle( Title : String )
5632:   Procedure TeX_SetOxTitle( Title : String )
5633:   Procedure TeX_SetOyTitle( Title : String )
5634:   Procedure TeX_PlotOxAxis
5635:   Procedure TeX_PlotOyAxis
5636:   Procedure TeX_PlotGrid( Grid : TGrid )
5637:   Procedure TeX_WriteGraphTitle
5638:   Function TeX_SetMaxCurv( NCurv : Byte ) : Boolean
5639:   Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer )
5640:   Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean )
5641:   Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String )
5642:   Procedure TeX_SetCurvStep( CurvIndex, Step : Integer )
5643:   Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer )
5644:   Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer )
5645:   Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer )
5646:   Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean )
5647:   Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix )
5648:   Function Xcm( X : Float ) : Float
5649:   Function Ycm( Y : Float ) : Float
5650: end;
5651:
5652: *-----*)
5653: procedure SIRegister_VarRecUtils(CL: TPSCompiler);
5654: begin
5655:   TConstArray', 'array of TVarRec
5656:   Function CopyVarRec( const Item : TVarRec ) : TVarRec
5657:   Function CreateConstArray( const Elements : array of const ) : TConstArray
5658:   Procedure FinalizeVarRec( var Item : TVarRec )

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5659: Procedure FinalizeConstArray( var Arr : TConstArray)
5660: end;
5661:
5662: procedure SIRegister_StStrS(CL: TPSPascalCompiler);
5663: begin
5664:   Function HexBS( B : Byte) : ShortString
5665:   Function HexWS( W : Word) : ShortString
5666:   Function HexLS( L : LongInt) : ShortString
5667:   Function HexPtrS( P : Pointer) : ShortString
5668:   Function BinaryBS( B : Byte) : ShortString
5669:   Function BinaryWS( W : Word) : ShortString
5670:   Function BinaryLS( L : LongInt) : ShortString
5671:   Function OctalBS( B : Byte) : ShortString
5672:   Function OctalWS( W : Word) : ShortString
5673:   Function OctalLS( L : LongInt) : ShortString
5674:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5675:   Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5676:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5677:   Function Str2Reals( const S : ShortString; var R : Double) : Boolean
5678:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5679:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5680:   Function Long2StrS( L : LongInt) : ShortString
5681:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5682:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5683:   Function ValPrepS( const S : ShortString) : ShortString
5684:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5685:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5686:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5687:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5688:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5689:   Function TrimLeads( const S : ShortString) : ShortString
5690:   Function TrimTrails( const S : ShortString) : ShortString
5691:   Function Trims( const S : ShortString) : ShortString
5692:   Function TrimSpacesS( const S : ShortString) : ShortString
5693:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : shortString
5694:   Function Centers( const S : ShortString; Len : Cardinal) : ShortString
5695:   Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5696:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5697:   Function ScrambleS( const S, Key : ShortString) : ShortString
5698:   Function Substitutes( const S, FromStr,ToStr : ShortString) : ShortString
5699:   Function Filters( const S, Filters : ShortString) : ShortString
5700:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5701:   Function CharCounts( const S : ShortString; C : AnsiChar) : Byte
5702:   Function WordCountS( const S, WordDelims : ShortString) : Cardinal
5703:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5704:   Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5705:   Function AsciiCountsS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5706:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5707:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5708: Procedure WordWraps(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5709:   Function CompStringS( const S1, S2 : ShortString) : Integer
5710:   Function CompUCStringS( const S1, S2 : ShortString) : Integer
5711:   Function SoundexS( const S : ShortString) : ShortString
5712:   Function MakeLetterSetS( const S : ShortString) : Longint
5713: Procedure BMMakeTableS( const MatchString : shortString; var BT : BTable)
5714: Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5715: Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5716: Function DefaultExtensionS( const Name, Ext : ShortString) : ShortString
5717: Function ForceExtensionS( const Name, Ext : ShortString) : ShortString
5718: Function JustFilenameS( const PathName : ShortString) : ShortString
5719: Function JustNameS( const PathName : ShortString) : ShortString
5720: Function JustExtensionS( const Name : ShortString) : ShortString
5721: Function JustPathnameS( const PathName : ShortString) : ShortString
5722: Function AddBackSlashS( const DirName : ShortString) : ShortString
5723: Function CleanPathNameS( const PathName : ShortString) : ShortString
5724: Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal) : Boolean
5725: Function CommaizeS( L : LongInt) : ShortString
5726: Function CommaizeChS( L : Longint; Ch : AnsiChar) : ShortString
5727: Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr,RtCurr:SString;Sep,
DecPt:Char):ShortString;
5728: Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5729: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal) : Boolean
5730: Function StrStPosS( const P, S : ShortString; var Pos : Cardinal) : Boolean
5731: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5732: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal) : ShortString
5733: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal) : ShortString
5734: Function StrChDeleteS( const S : ShortString; Pos : Cardinal) : ShortString
5735: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5736: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5737: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5738: Function CopyLeftS( const S : ShortString; Len : Cardinal) : ShortString
5739: Function CopyMidS( const S : ShortString; First, Len : Cardinal) : ShortString
5740: Function CopyRights( const S : ShortString; First : Cardinal) : shortString
5741: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal) : ShortString
5742: Function CopyFromNthWordS(const S,WordDelims:string;const Aword:String;N:Card;var
SubString:ShortString):Bool;

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5743: Function DeleteFromNthWordS( const S, WordDelims: String; AWord: ShortString; N: Card; var
5744: SubStr: ShortString ): Bool;
5745: Function CopyFromToWordS( const S, WordDelims, Word1, Word2: ShortString; N1, N2: Card; var
5746: SubString: ShortString ): Bool;
5747: Function DeleteFromToWords( const S, WordDelims, Wrld1, Wrld2: ShortString; N1, N2: Card; var
5748: SubString: ShortString ): Bool;
5749: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean ) : ShortString
5750: Function DeleteWithinS( const S, Delimiter : ShortString ) : ShortString
5748: Function ExtractTokensS( const S,
      Delims: ShortString; QuoteChar: AnsiChar; AllowNulls: Boolean; Tokens: TStrings ) : Cardinal
5749: Function IsChAlphaS( C : Char ) : Boolean
5750: Function IsChNumericS( C : Char; const Numbers : ShortString ) : Boolean
5751: Function IsChAlphaNumerics( C : Char; const Numbers : ShortString ) : Boolean
5752: Function IsStrAlphaS( const S : Shortstring ) : Boolean
5753: Function IsStrNumericS( const S, Numbers : ShortString ) : Boolean
5754: Function IsStrAlphaNumericS( const S, Numbers : ShortString ) : Boolean
5755: Function LastWordS( const S, WordDelims, AWord : ShortString; var Position : Cardinal ) : Boolean
5756: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal ) : Boolean
5757: Function LastStringS( const S, AString : ShortString; var Position : Cardinal ) : Boolean
5758: Function LeftTrimCharsS( const S, Chars : ShortString ) : ShortString
5759: Function KeepCharsS( const S, Chars : ShortString ) : ShortString
5760: Function RepeatStringS( const RepeatString: ShortString; var Repetitions: Cardinal; MaxLen : Cardinal ) : ShortString;
5761: Function ReplaceStringsS( const S, OldStr, NewStr: ShortString; N: Cardinal; var
      Replacements: Cardinal ) : ShortString;
5762: Function ReplaceStringAllS( const S, OldString, NewString: ShortString; var Replacements: Cardinal ) : ShortString;
5763: Function ReplaceWordS( const S, WordDelims, OldWord, NewW: SString; N: Cardinal; var
      Replacements: Cardinal ) : ShortString
5764: Function ReplaceWordAllS( const S, WordDelims, OldWord, NewWord: ShortString; var
      Replacements: Cardinal ) : ShortString
5765: Function RightTrimCharsS( const S, Chars : ShortString ) : ShortString
5766: Function StrWithinS( const S, SearchStr: ShortString; Start: Cardinal; var Position: Cardinal ) : boolean
5767: Function TrimCharsS( const S, Chars : ShortString ) : ShortString
5768: Function WordPosS( const S, WordDelims, AWord: ShortString; N: Cardinal; var Position: Cardinal ) : Boolean
5769: end;
5770:
5771:
5772: *****unit uPSI_StUtils; from SysTools4*****
5773: Function SignL( L : LongInt ) : Integer
5774: Function SignF( F : Extended ) : Integer
5775: Function MinWord( A, B : Word ) : Word
5776: Function MidWord( W1, W2, W3 : Word ) : Word
5777: Function MaxWord( A, B : Word ) : Word
5778: Function MinLong( A, B : LongInt ) : LongInt
5779: Function MidLong( L1, L2, L3 : LongInt ) : LongInt
5780: Function MaxLong( A, B : LongInt ) : LongInt
5781: Function MinFloat( F1, F2 : Extended ) : Extended
5782: Function MidFloat( F1, F2, F3 : Extended ) : Extended
5783: Function MaxFloat( F1, F2 : Extended ) : Extended
5784: Function MakeInteger16( H, L : Byte ) : SmallInt
5785: Function MakeWordS( H, L : Byte ) : Word
5786: Function SwapNibble( B : Byte ) : Byte
5787: Function SwapWord( L : LongInt ) : LongInt
5788: Procedure SetFlag( var Flags : Word; FlagMask : Word )
5789: Procedure ClearFlag( var Flags : Word; FlagMask : Word )
5790: Function FlagIsSet( Flags, FlagMask : Word ) : Boolean
5791: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte )
5792: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte )
5793: Function ByteFlagIsSet( Flags, FlagMask : Byte ) : Boolean
5794: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt )
5795: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt )
5796: Function LongFlagIsSet( Flags, FlagMask : LongInt ) : Boolean
5797: Procedure ExchangeBytes( var I, J : Byte )
5798: Procedure ExchangeWords( var I, J : Word )
5799: Procedure ExchangeLongInts( var I, J : LongInt )
5800: Procedure ExchangeStructs( var I, J, Size : Cardinal )
5801: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word )
5802: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal )
5803: Function AddWordToPtr( P : __Pointer; W : Word ) : __Pointer
5804: //*****uPSI_StFIN;*****
5805: Function AccruedInterestMaturity( Issue, Maturity: TStDate; Rate, Par: Extended; Basis: TStBasis ) : Extended
5806: Function AccruedInterestPeriodic( Issue, Settlement, Maturity: TStDate; Rate,
      Par: Extended; Frequency: TStFrequency; Basis : TStBasis ) : Extended
5807: Function BondDuration( Settlement, Maturity: TStDate; Rate,
      Yield: Ext; Frequency: TStFrequency; Basis: TStBasis ) : Extended;
5808: Function BondPrice( Settlement, Maturity: TStDate; Rate, Yield, Redempt: Ext; Freq: TStFrequency; Basis: TStBasis ) :
      Extended
5809: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
      Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5810: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
      Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5811: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis ) : LongInt
5812: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5813: Function DiscountRate( Settlement, Maturity: TStDate; Price, Redemption: Extended; Basis: TStBasis ) : Extended;
5814: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5815: Function DollarToDecimalText( DecDollar : Extended; Fraction : Integer ) : string
5816: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5817: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5818: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended

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5819: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
5820: PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5821: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5822: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5823: Function InterestRateS(NPeriods:Int;Pmt,PV,
5824: FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extended;
5825: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5826: Function IsCardValid( const S : string ) : Boolean
5827: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
5828: Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5829: Function ModifiedIRR(const Values : array of Double; FinanceRate,ReinvestRate: Extended) : Extended
5830: Function ModifiedIRR16(const Values:NValues:Integer; FinanceRate,ReinvestRate: Extended) : Extended
5831: Function NetPresentValue( Rate : Extended; const Values : array of Double ) : Extended
5832: Function NonperiodicIRR(const Values:array of Double;const Dates:TStDate;Guess:Extended):Extended;
5833: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5834: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
5835: : TStPaymentTime): Extended
5836: Function PresentValueS( Rate : Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TStFrequency;
5837: Timing: TStPaymentTime): Extended
5838: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5839: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5840: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5841: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5842: Function TBillyard( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5843: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
5844: Factor : Extended; NoSwitch : boolean ) : Extended
5845: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5846: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
5847: Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5848: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5849: //*****unit unit uPSI_StStat; Statistic Package of SysTools*****
5850: Function AveDev( const Data : array of Double ) : Double
5851: Function AveDev16( const Data, NData : Integer ) : Double
5852: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5853: Function Correlation( const Data1, Data2 : array of Double ) : Double
5854: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5855: Function Covariance( const Data1, Data2 : array of Double ) : Double
5856: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5857: Function DevSq( const Data : array of Double ) : Double
5858: Function DevSq16( const Data, NData : Integer ) : Double
5859: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5860: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5861: Function GeometricMeanS( const Data : array of Double ) : Double
5862: Function GeometricMean16( const Data, NData : Integer ) : Double
5863: Function HarmonicMeanS( const Data : array of Double ) : Double
5864: Function HarmonicMean16( const Data, NData : Integer ) : Double
5865: Function Largest( const Data : array of Double; K : Integer ) : Double
5866: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5867: Function MedianS( const Data : array of Double ) : Double
5868: Function Median16( const Data, NData : Integer ) : Double
5869: Function Mode( const Data : array of Double ) : Double
5870: Function Mode16( const Data, NData : Integer ) : Double
5871: Function Percentile( const Data : array of Double; K : Double ) : Double
5872: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5873: Function PercentRank( const Data : array of Double; X : Double ) : Double
5874: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5875: Function Permutations( Number, NumberChosen : Integer ) : Extended
5876: Function Combinations( Number, NumberChosen : Integer ) : Extended
5877: Function Factorials( N : Integer ) : Extended
5878: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5879: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5880: Function Smallest( const Data : array of Double; K : Integer ) : Double
5881: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5882: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5883: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5884: AddTypeS('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB'
5885: +'1 : Double; R2 : Double; sigma :Double; SSr: double; SSe: Double; F0 : Double; df : Integer;end
5886: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var
5887: LF:TStLinEst;ErrorStats:Bool;
5888: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var
5889: LF:TStLinEst;ErrorStats:Bool;
5890: Function Forecast(X:Double;const KnownY:array of Double;const KnownX:array of Double) : Double
5891: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5892: Function Intercept( const KnownY : array of Double; const KnownX : array of Double ) : Double
5893: Function RSquared( const KnownY : array of Double; const KnownX : array of Double ) : Double
5894: Function Slope( const KnownY : array of Double; const KnownX : array of Double ) : Double
5895: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double ) : Double
5896: Function BetaDist( Probability, Alpha, Beta, A, B : Single ) : Single
5897: Function BetaInv( Probability, Alpha, Beta, A, B : Single ) : Single
5898: Function BinomDist( Numbers, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean ) : Single
5899: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single ) : Integer
5900: Function ChiDist( X : Single; DegreesFreedom : Integer ) : Single

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5899: Function ChiInv( Probability : Single; DegreesFreedom : Integer) : Single
5900: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5901: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5902: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5903: Function LogNormDist( X, Mean, StandardDev : Single) : Single
5904: Function LogInv( Probability, Mean, StandardDev : Single) : Single
5905: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5906: Function NormInv( Probability, Mean, StandardDev : Single) : Single
5907: Function NormSDist( Z : Single) : Single
5908: Function NormSInv( Probability : Single) : Single
5909: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5910: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5911: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5912: Function Erfc( X : Single) : Single
5913: Function GammaLn( X : Single) : Single
5914: Function LargestSort( const Data : array of Double; K : Integer) : Double
5915: Function SmallestSort( const Data : array of double; K : Integer) : Double
5916:
5917: procedure SIRegister_TStSorter(CL: TPPascalCompiler);
5918: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt) : LongInt
5919: Function MinimumHeapToUse( RecLen : Cardinal) : LongInt
5920: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt) : TMergeInfo
5921: Function DefaultMergeName( MergeNum : Integer) : string
5922: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5923:
5924: procedure SIRegister_StAstro(CL: TPPascalCompiler);
5925: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5926: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5927: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5928: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5929: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5930: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5931: Function LunarPhase( UT : TStDateTimeRec) : Double
5932: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5933: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5934: Function FirstQuarter( D : TStDate) : TStLunarRecord
5935: Function FullMoon( D : TStDate) : TStLunarRecord
5936: Function LastQuarter( D : TStDate) : TStLunarRecord
5937: Function NewMoon( D : TStDate) : TStLunarRecord
5938: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5939: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5940: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5941: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5942: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5943: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5944: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5945: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5946: Function SiderealTime( UT : TStDateTimeRec) : Double
5947: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5948: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec
5949: Function SEaster( Y, Epoch : Integer) : TStDate
5950: Function DateToAJD( D : TDateime) : Double
5951: Function HoursMin( RA : Double) : ShortString
5952: Function DegtMin( DC : Double) : ShortString
5953: Function AJDToDate( D : Double) : TDateime
5954:
5955: Procedure SIRegister_StDate(CL: TPPascalCompiler);
5956: Function CurrentDate : TStDate
5957: Function StValidDate( Day, Month, Year, Epoch : Integer) : Boolean
5958: Function DMYtoStDate( Day, Month, Year, Epoch : Integer) : TStDate
5959: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer)
5960: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer) : TStDate
5961: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer) : TStDate
5962: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer)
5963: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType) : TStDate
5964: Function WeekOffYear( Julian : TStDate) : Byte
5965: Function AstJulianDate( Julian : TStDate) : Double
5966: Function AstJulianDateToStDate( AstJulian : Double; Truncate : Boolean) : TStDate
5967: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime) : Double
5968: Function StDayOfWeek( Julian : TStDate) : TStDayType
5969: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer) : TStDayType
5970: Function StIsLeapYear( Year : Integer) : Boolean
5971: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer) : Integer
5972: Function ResolveEpoch( Year, Epoch : Integer) : Integer
5973: Function ValidTime( Hours, Minutes, Seconds : Integer) : Boolean
5974: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte)
5975: Function HMSToStTime( Hours, Minutes, Seconds : Byte) : TStTime
5976: Function CurrentTime : TStTime
5977: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte)
5978: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5979: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5980: Function RoundToNearestHour( T : TStTime; Truncate : Boolean) : TStTime
5981: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean) : TStTime
5982: Procedure DateTimeDiff(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt)
5983: Procedure IncDateTime(const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt)
5984: Function DateTimeToStDate( DT : TDateime) : TStDate
5985: Function DateTimeToStTime( DT : TDateime) : TStTime
5986: Function StDateToDate( D : TStDate) : TDateime
5987: Function StTimeToDate( T : TStTime) : TDateime

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5988: Function Convert2ByteDate( TwoByteDate : Word ) : TStDate
5989: Function Convert4ByteDate( FourByteDate : TStDate ) : Word
5990:
5991: Procedure SIRegister_StDateSt(CL: TPSPascalCompiler);
5992: Function DateStringHMSToAstJD( const Picture, DS : string; H, M, S, Epoch : integer ) : Double
5993: Function MonthToString( const Month : Integer ) : string
5994: Function DateStringToStDate( const Picture, S : string; Epoch : Integer ) : TStDate
5995: Function DateStringToDMY( const Picture,S:string; Epoch:Integer; var D, M, Y : Integer):Boolean
5996: Function StDateToString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5997: Function DayOfWeekToString( const WeekDay : TStDayType) : string
5998: Function DMYToDateString(const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
5999: Function CurrentDateString( const Picture : string; Pack : Boolean) : string
6000: Function CurrentTimeString( const Picture : string; Pack : Boolean) : string
6001: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer) : Boolean
6002: Function TimeStringToStTime( const Picture, S : string) : TStTime
6003: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean) : string
6004: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean) : string
6005: Function DatestringIsBlank( const Picture, S : string ) : Boolean
6006: Function InternationalDate( ForceCentury : Boolean ) : string
6007: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean ) : string
6008: Function InternationalTime( ShowSeconds : Boolean ) : string
6009: Procedure ResetInternationalInfo
6010:
6011: procedure SIRegister_StBase(CL: TPSPascalCompiler);
6012: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer ) : Boolean
6013: Function AnsiUpperCaseShort32( const S : string ) : string
6014: Function AnsiCompareTextShort32( const S1, S2 : string ) : Integer
6015: Function AnsiCompareStrShort32( const S1, S2 : string ) : Integer
6016: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer ) : Longint
6017: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
6018: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte )
6019: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal )
6020: Function Upcase( C : AnsiChar ) : AnsiChar
6021: Function LoCase( C : AnsiChar ) : AnsiChar
6022: Function CompareLetterSets( Set1, Set2 : LongInt ) : Cardinal
6023: Function CompStruct( const S1, S2, Size : Cardinal ) : Integer
6024: Function Search( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
6025: Function StSearch( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
6026: Function SearchUC( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
6027: Function IsOrInheritsFrom( Root, Candidate : TClass ) : boolean
6028: Procedure RaiseContainerError( Code : longint )
6029: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const )
6030: Function ProductOverflow( A, B : LongInt ) : Boolean
6031: Function StNewStr( S : string ) : PShortString
6032: Procedure StDisposeStr( PS : PShortString )
6033: Procedure VallLongInt( S : ShortString; var LI : Longint; var ErrorCode : integer )
6034: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer )
6035: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer )
6036: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt )
6037: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt )
6038: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string )
6039:
6040: procedure SIRegister_usvd(CL: TPSPascalCompiler);
6041: begin
6042:   Procedure SV_DecomP( A : TMatrix; Lb, Ubl, Ub2 : Integer; S : TVector; V : TMatrix )
6043:   Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float )
6044:   Procedure SV_Solve(U:TMatrix; S:TVector;V:TMatrix;B:TVector;Lb,Ubl,Ub2:Integer;X:TVector);
6045:   Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ubl, Ub2 : Integer; A : TMatrix )
6046:   Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
6047: end;
6048:
6049: //*****unit unit ; StMath Package of SysTools*****
6050: Function IntPowerS( Base : Extended; Exponent : Integer ) : Extended
6051: Function PowerS( Base, Exponent : Extended ) : Extended
6052: Function StInvCos( X : Double ) : Double
6053: Function StInvsin( Y : Double ) : Double
6054: Function StInvTan2( X, Y : Double ) : Double
6055: Function StTan( A : Double ) : Double
6056: Procedure DumpException; //unit StExpEng;
6057: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string
6058:
6059: //*****unit unit ; STCRC Package of SysTools*****
6060: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
6061: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
6062: Function Adler32OfFile( FileName : AnsiString ) : LongInt
6063: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6064: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6065: Function Crc16OfFile( FileName : AnsiString ) : Cardinal
6066: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
6067: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
6068: Function Crc32OfFile( FileName : AnsiString ) : LongInt
6069: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6070: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6071: Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
6072: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6073: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6074: Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
6075:
6076: //*****unit unit ; StBCD Package of SysTools*****

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6077: Function AddBcd( const B1, B2 : Tbcds ) : Tbcds
6078: Function SubBcd( const B1, B2 : Tbcds ) : Tbcds
6079: Function MulBcd( const B1, B2 : Tbcds ) : Tbcds
6080: Function DivBcd( const B1, B2 : Tbcds ) : Tbcds
6081: Function ModBcd( const B1, B2 : Tbcds ) : Tbcds
6082: Function NegBcd( const B : Tbcds ) : Tbcds
6083: Function AbsBcd( const B : Tbcds ) : Tbcds
6084: Function FracBcd( const B : Tbcds ) : Tbcds
6085: Function IntBcd( const B : Tbcds ) : Tbcds
6086: Function RoundDigitsBcd( const B : Tbcds; Digits : Cardinal ) : Tbcds
6087: Function RoundPlacesBcd( const B : Tbcds; Places : Cardinal ) : Tbcds
6088: Function ValBcd( const S : string ) : Tbcds
6089: Function LongBcd( L : LongInt ) : Tbcds
6090: Function ExtBcd( E : Extended ) : Tbcds
6091: Function ExpBcd( const B : Tbcds ) : Tbcds
6092: Function LnBcd( const B : Tbcds ) : Tbcds
6093: Function IntPowBcd( const B : Tbcds; E : LongInt ) : Tbcds
6094: Function PowBcd( const B, E : Tbcds ) : Tbcds
6095: Function SqrtBcd( const B : Tbcds ) : Tbcds
6096: Function CmpBcd( const B1, B2 : Tbcds ) : Integer
6097: Function EqDigitsBcd( const B1, B2 : Tbcds; Digits : Cardinal ) : Boolean
6098: Function EqPlacesBcd( const B1, B2 : Tbcds; Digits : Cardinal ) : Boolean
6099: Function IsIntBcd( const B : Tbcds ) : Boolean
6100: Function TruncBcd( const B : Tbcds ) : LongInt
6101: Function BcdExt( const B : Tbcds ) : Extended
6102: Function RoundBcd( const B : Tbcds ) : LongInt
6103: Function StrBcd( const B : Tbcds; Width, Places : Cardinal ) : string
6104: Function StrExpBcd( const B : Tbcds; Width : Cardinal ) : string
6105: Function FormatBcd( const Format : string; const B : Tbcds ) : string
6106: Function StrGeneralBcd( const B : Tbcds ) : string
6107: Function FloatFormBcd(const Mask:string;B:Tbcds;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6108: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte )
6109:
6110: //*****unit unit ; StTxtData; TStTextDataRecordSet Package of SysTools*****
6111: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings )
6112: Function StFieldTypeToStr( FieldType : TStSchemaFieldType ) : AnsiString
6113: Function StStrToFieldType( const S : AnsiString ) : TStSchemaFieldType
6114: Function StDeEscape( const EscStr : AnsiString ) : Char
6115: Function StDoEscape( Delim : Char ) : AnsiString
6116: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char ) : AnsiString
6117: Function AnsiHashText( const S : string; Size : Integer ) : Integer
6118: Function AnsiHashStr( const S : string; Size : Integer ) : Integer
6119: Function AnsiELFHashText( const S : string; Size : Integer ) : Integer
6120: Function AnsiELFHashStr( const S : string; Size : Integer ) : Integer
6121:
6122: //*****unit unit ; StNetCon Package of SysTools*****
6123: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6124:   Constructor Create( AOwner : TComponent )
6125:   Function Connect : DWord
6126:   Function Disconnect : DWord
6127:   RegisterProperty('Password', 'String', iptrw);
6128:   Property('UserName', 'String', iptrw);
6129:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6130:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6131:   Property('LocalDevice', 'String', iptrw);
6132:   Property('ServerName', 'String', iptrw);
6133:   Property('ShareName', 'String', iptrw);
6134:   Property('OnConnect', 'TNotifyEvent', iptrw);
6135:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6136:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6137:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6138:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6139:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6140: end;
6141: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6142: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6143: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection )
6144: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection )
6145: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection )
6146: Function InitializeCriticalSectionAndSpinCount(var
6147:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6148: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6149: Procedure TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL
6150: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection )
6151: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL
6152: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL
6153: Function SuspendThread( hThread : THandle ) : DWORD
6154: Function ResumeThread( hThread : THandle ) : DWORD
6155: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THandle
6156: Function GetCurrentThread : THandle
6157: Procedure ExitThread( dwExitCode : DWORD )
6158: Function TerminateThread( hThread : THandle; dwExitCode : DWORD ) : BOOL
6159: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL
6160: Procedure EndThread(ExitCode: Integer);
6161: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD
6162: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC
6163: Procedure FreeProcInstance( Proc : FARPROC )
6164: Function FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD )
6165: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL

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6165: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6166: Procedure ParallelJob1( ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6167: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool);
6168: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection: boolean);
6169: Function CreateParallelJob(ASelf: TObject; ATarget: Pointer; AParam: Ptr; ASafeSection: bool; TParallelJob;
6170: Function CreateParallelJob1(ATarget: Pointer; AParam: Pointer; ASafeSection: boolean) : TParallelJob;
6171: Function CurrentParallelJobInfo : TParallelJobInfo
6172: Function ObtainParallelJobInfo : TParallelJobInfo
6173: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo );
6174: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD ) : BOOL';
6175: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle ) : BOOL';
6176: Function
DeviceIoControl(hDevice:THandle;dwIoControlCode:DWORD;lpInBuffer:TObject;nInBufferSize:DWORD;lpOutBuffer:
TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped:TOverlapped):BOOL';
6177: Function SetFileTime(hFile:THandle;lpCreationTime,lpLastAccessTime,lpLastWriteTime:TFileTime): BOOL';
6178: Function DuplicateHandle(hSourceProcessHandle,hSourceHandle,hTargetProcessHandle:THandle;
lpTargetHandle:THandle; dwDesiredAccess : DWORD; bInheritHandle:BOOL; dwOptions : DWORD ) : BOOL';
6179: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD ) : BOOL';
6180: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD ) : BOOL';
6181:
6182: *****unit uPSI_JclMime;
6183: Function MimeEncodeString( const S : AnsiString ) : AnsiString
6184: Function MimeDecodeString( const S : AnsiString ) : AnsiString
6185: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream)
6186: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream)
6187: Function MimeEncodedSize( const I : Cardinal ) : Cardinal
6188: Function MimeDecodedSize( const I : Cardinal ) : Cardinal
6189: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer )
6190: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6191: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : Cardinal
6192: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):Cardinal;
6193:
6194: *****unit uPSI_JclPrint;
6195: Procedure DirectPrint( const Printer, Data : string )
6196: Procedure SetPrinterPixelsPerInch
6197: Function GetPrinterResolution : TPoint
6198: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer
6199: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect )
6200:
6201:
6202: //*****unit uPSI_ShLwApi;*****
6203: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar
6204: Function StrChrI( lpStart : PChar; wMatch : WORD ) : PChar
6205: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6206: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6207: Function StrCSpn( lpStr_, lpSet : PChar ) : Integer
6208: Function StrCSpnI( lpStr1, lpSet : PChar ) : Integer
6209: Function StrDup( lpSrch : PChar ) : PChar
6210: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar
6211: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar
6212: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6213: Function StrIsIntLEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6214: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6215: Function StrPBrk( psz, pszSet : PChar ) : PChar
6216: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6217: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6218: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar
6219: Function StrSpn( psz, pszSet : PChar ) : Integer
6220: Function StrStr( lpFirst, lpSrch : PChar ) : PChar
6221: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar
6222: Function StrToInt( lpSrch : PChar ) : Integer
6223: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL
6224: Function StrTrim( psz : PChar; pszTrimChars : PChar ) : BOOL
6225: Function ChrCmpI( w1, w2 : WORD ) : BOOL
6226: Function ChrCmpIA( w1, w2 : WORD ) : BOOL
6227: Function ChrCmpIW( w1, w2 : WORD ) : BOOL
6228: Function StrIntlEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6229: Function StrIntlEqNI( s1, s2 : PChar; nChar : Integer ) : BOOL
6230: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer ) : PChar
6231: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6232: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6233: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6234: SZ_CONTENTTYPE_HTML', 'String 'text/html
6235: SZ_CONTENTTYPE_HTMLW', 'String 'text/html
6236: SZ_CONTENTTYPE_HTML', 'string SZ_CONTENTTYPE_HTML);
6237: SZ_CONTENTTYPE_CDF', 'String 'application/x-cdf
6238: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf
6239: SZ_CONTENTTYPE_CDF', 'string SZ_CONTENTTYPE_CDF);
6240: Function PathIsHTMLFile( pszPath : PChar ) : BOOL
6241: STIF_DEFAULT', 'LongWord( $00000000);
6242: STIF_SUPPORT_HEX', 'LongWord( $00000001);
6243: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6244: Function StrNCpy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6245: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6246: Function PathAddBackslash( pszPath : PChar ) : PChar
6247: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6248: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL

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6249: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6250: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6251: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6252: Function PathCompactPath( hdc : HDC; pszPath : PChar; dx : UINT ) : BOOL
6253: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6254: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6255: Function PathFileExists( pszPath : PChar ) : BOOL
6256: Function PathFindExtension( pszPath : PChar ) : PChar
6257: Function PathFindFileName( pszPath : PChar ) : PChar
6258: Function PathFindNextComponent( pszPath : PChar ) : PChar
6259: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6260: Function PathGetArgs( pszPath : PChar ) : PChar
6261: Function PathFindSufffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6262: Function PathIsLFNfileSpec( lpName : PChar ) : BOOL
6263: Function PathGetCharType( ch : Char ) : UINT
6264: GCT_INVALID', LongWord( $0000 );
6265: GCT_LFNCHAR', LongWord( $0001 );
6266: GCT_SHORTCHAR', LongWord( $0002 );
6267: GCT_WILD', LongWord( $0004 );
6268: GCT_SEPARATOR', LongWord( $0008 );
6269: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6270: Function PathIsDirectory( pszPath : PChar ) : BOOL
6271: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6272: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6273: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6274: Function PathIsRelative( pszPath : PChar ) : BOOL
6275: Function PathIsRoot( pszPath : PChar ) : BOOL
6276: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6277: Function PathIsUNC( pszPath : PChar ) : BOOL
6278: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6279: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6280: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6281: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6282: Function PathIsURL( pszPath : PChar ) : BOOL
6283: Function PathMakePretty( pszPath : PChar ) : BOOL
6284: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6285: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6286: Procedure PathQuoteSpaces( lpsz : PChar )
6287: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6288: Procedure PathRemoveArgs( pszPath : PChar )
6289: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6290: Procedure PathRemoveBlanks( pszPath : PChar )
6291: Procedure PathRemoveExtension( pszPath : PChar )
6292: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6293: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6294: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6295: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6296: Function PathSkipRoot( pszPath : PChar ) : PChar
6297: Procedure PathStripPath( pszPath : PChar )
6298: Function PathStripToRoot( pszPath : PChar ) : BOOL
6299: Procedure PathUnquoteSpaces( lpsz : PChar )
6300: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6301: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6302: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD ) : BOOL
6303: Procedure PathUndecorate( pszPath : PChar )
6304: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6305: URL_SCHEME_INVALID', LongInt'( - 1);
6306: URL_SCHEME_UNKNOWN', LongInt'( 0);
6307: URL_SCHEME_FTP', LongInt'( 1);
6308: URL_SCHEME_HTTP', LongInt'( 2);
6309: URL_SCHEME_GOPHER', LongInt'( 3);
6310: URL_SCHEME_MAILTO', LongInt'( 4);
6311: URL_SCHEME_NEWS', LongInt'( 5);
6312: URL_SCHEME_NNTP', LongInt'( 6);
6313: URL_SCHEME_TELNET', LongInt'( 7);
6314: URL_SCHEME_WAIS', LongInt'( 8);
6315: URL_SCHEME_FILE', LongInt'( 9);
6316: URL_SCHEME_MK', LongInt'( 10);
6317: URL_SCHEME_HTTPS', LongInt'( 11);
6318: URL_SCHEME_SHELL', LongInt'( 12);
6319: URL_SCHEME_SNEWS', LongInt'( 13);
6320: URL_SCHEME_LOCAL', LongInt'( 14);
6321: URL_SCHEME_JAVASCRIPT', LongInt'( 15);
6322: URL_SCHEME_VBSCRIPT', LongInt'( 16);
6323: URL_SCHEME_ABOUT', LongInt'( 17);
6324: URL_SCHEME_RES', LongInt'( 18);
6325: URL_SCHEME_MAXVALUE', LongInt'( 19);
6326: URL_SCHEME', Integer
6327: URL_PART_NONE', LongInt'( 0);
6328: URL_PART_SCHEME', LongInt'( 1);
6329: URL_PART_HOSTNAME', LongInt'( 2);
6330: URL_PART_USERNAME', LongInt'( 3);
6331: URL_PART_PASSWORD', LongInt'( 4);
6332: URL_PART_PORT', LongInt'( 5);
6333: URL_PART_QUERY', LongInt'( 6);
6334: URL_PART', DWORD
6335: URLIS_URL', LongInt'( 0);
6336: URLIS_OPAQUE', LongInt'( 1);
6337: URLIS_NOHISTORY', LongInt'( 2);

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6338: URLIS_FILEURL', 'LongInt'( 3 );
6339: URLIS_APPLICABLE', 'LongInt'( 4 );
6340: URLIS_DIRECTORY', 'LongInt'( 5 );
6341: URLIS_HASQUERY', 'LongInt'( 6 );
6342: TUrlIs', 'DWORD
6343: URL_UNESCAPE', 'LongWord( $10000000 );
6344: URL_ESCAPE_UNSAFE', 'LongWord( $20000000 );
6345: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000 );
6346: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6347: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000 );
6348: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000 );
6349: URL_DONT_SIMPLIFY', 'LongWord( $08000000 );
6350: URL_NO_META', 'longword( URL_DONT_SIMPLIFY );
6351: URL_UNESCAPE_INPLACE', 'LongWord( $00100000 );
6352: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000 );
6353: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000 );
6354: URL_INTERNAL_PATH', 'LongWord( $00800000 );
6355: URL_FILE_USE_PATHURL', 'LongWord( $00010000 );
6356: URL_ESCAPE_PERCENT', 'LongWord( $00001000 );
6357: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000 );
6358: URL_PARTFLAG_KEEPSCHEME', 'LongWord( $00000001 );
6359: URL_APPLY_DEFAULT', 'LongWord( $00000001 );
6360: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002 );
6361: URL_APPLY_GUESSFILE', 'LongWord( $00000004 );
6362: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008 );
6363: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL ) : Integer
6364: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6365: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6366: Function UrlIsOpaque( pszURL : PChar ) : BOOL
6367: Function UrlIsNoHistory( pszURL : PChar ) : BOOL
6368: Function UrlIsFileUrl( pszURL : PChar ) : BOOL
6369: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs ) : BOOL
6370: Function UrlGetLocation( psz1 : PChar ) : PChar
6371: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD ) : HRESULT
6372: Function UrlEscape(pszUrl : PChar; pszEscaped: PChar; pcchEscaped:DWORD; dwFlags : DWORD ) : HRESULT
6373: Function UrlCreateFromPath(pszPath:PChar; pszUrl: PChar;pcchUrl: DWORD; dwFlags : DWORD ) : HRESULT
6374: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD ) : HRESULT
6375: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6376: Function UrlGetPart(pszIn: PChar; pszOut: PChar; pcchOut: DWORD; dwPart,dwFlags: DWORD ) : HRESULT
6377: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD ) : HRESULT
6378: Function HashData( pData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6379: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD ) : HRESULT
6380: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD ) : HRESULT
6381: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6382: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6383: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar ) : DWORD
6384: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD ) : Longint
6385: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : __Pointer; pcbData : DWORD ) : Longint
6386: Function SHQueryInfoKey(hKey:HKEY;pcSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6387: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD ) : DWORD
6388: Function SHRegGetPath(hKey:HKEY; pcSzSubKey,pcSzValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6389: Function SHRegSetPath( hKey:HKEY; pcSzSubKey, pcSzValue, pcSzPath : PChar; dwFlags : DWORD): DWORD
6390: SHREGDEL_DEFAULT', 'LongWord( $00000000 );
6391: SHREGDEL_HKCU', 'LongWord( $00000001 );
6392: SHREGDEL_HKLM', 'LongWord( $00000010 );
6393: SHREGDEL_BOTH', 'LongWord( $00000011 );
6394: SHREGENUM_DEFAULT', 'LongWord( $00000000 );
6395: SHREGENUM_HKCU', 'LongWord( $00000001 );
6396: SHREGENUM_HKLM', 'LongWord( $00000010 );
6397: SHREGENUM_BOTH', 'LongWord( $00000011 );
6398: SHREGSET_HKCU', 'LongWord( $00000001 );
6399: SHREGSET_FORCE_HKCU', 'LongWord( $00000002 );
6400: SHREGSET_HKLM', 'LongWord( $00000004 );
6401: SHREGSET_FORCE_HKLM', 'LongWord( $00000008 );
6402: TSHRegDelFlags', 'DWORD
6403: TSHRegEnumFlags', 'DWORD
6404: HUSKEY', 'THandle
6405: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001 );
6406: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002 );
6407: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002 );
6408: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004 );
6409: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008 );
6410: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010 );
6411: ASSOCF_NOTRUNCATE', 'LongWord( $00000020 );
6412: ASSOCF_VERIFY', 'LongWord( $00000040 );
6413: ASSOCF_REMAPPRUNDLL', 'LongWord( $00000080 );
6414: ASSOCF_NOFIXUPS', 'LongWord( $00000100 );
6415: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200 );
6416: ASSOCF', 'DWORD
6417: ASSOCSTR_COMMAND', 'LongInt'( 1 );
6418: ASSOCSTR_EXECUTABLE', 'LongInt'( 2 );
6419: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3 );
6420: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4 );
6421: ASSOCSTR_NOOPEN', 'LongInt'( 5 );
6422: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6 );
6423: ASSOCSTR_DDECOMMAND', 'LongInt'( 7 );
6424: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8 );
6425: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9 );

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6426: ASSOCSTR_DDETOPIC', 'LongInt'( 10);
6427: ASSOCSTR_INFOTIP', 'LongInt'( 11);
6428: ASSOCSTR_MAX', 'LongInt'( 12);
6429: ASSOCSTR', 'DWORD
6430: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1);
6431: ASSOCKEY_APP', 'LongInt'( 2);
6432: ASSOCKEY_CLASS', 'LongInt'( 3);
6433: ASSOCKEY_BASECLASS', 'LongInt'( 4);
6434: ASSOCKEY_MAX', 'LongInt'( 5);
6435: ASSOCKEY', 'DWORD
6436: ASSOCDATA_MSIDEDESCRIPTOR', 'LongInt'( 1);
6437: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6438: ASSOCDATA_QUERYCLASSTSTORE', 'LongInt'( 3);
6439: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6440: ASSOCDATA_MAX', 'LongInt'( 5);
6441: ASSOCDATA', 'DWORD
6442: ASSOCENUM_NONE', 'LongInt'( 0);
6443: ASSOCENUM', 'DWORD
6444: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6445: SHACF_DEFAULT $00000000;
6446: SHACF_FILESYSTEM', 'LongWord( $00000001);
6447: SHACF_URLHISTORY', 'LongWord( $00000002);
6448: SHACF_URLMRU', 'LongWord( $00000004);
6449: SHACF_USETAB', 'LongWord( $00000008);
6450: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6451: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6452: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6453: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6454: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6455: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6456: Procedure SHSetThreadRef( punk : IUnknown )
6457: Procedure SHGetThreadRef( out ppunk : IUnknown )
6458: CTF_INSIST', 'LongWord( $00000001);
6459: CTF_THREAD_REF', 'LongWord( $00000002);
6460: CTF_PROCESS_REF', 'LongWord( $00000004);
6461: CTF_COINIT', 'LongWord( $00000008);
6462: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6463: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6464: Function ColorHLSToRGB( whue, wluminance, wsaturation : WORD ) : TColorRef
6465: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6466: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6467: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6468: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6469: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6470: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6471: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6472: Function SetRectEmpty( var lprc : TRect ) : BOOL
6473: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6474: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6475: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6476: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6477:
6478: Function InitializeFlatSB( hWnd : HWND ) : Bool
6479: Procedure UninitializeFlatSB( hWnd : HWND )
6480: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6481: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6482: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6483: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6484: Function GET_MOUSEKEY_LPARAM( lParam : Integer ) : Integer
6485: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6486: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6487:
6488:
6489: // **** 204 unit uPSI_ShellAPI;
6490: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6491: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6492: Procedure DragFinish( Drop : HDROP )
6493: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6494: Function ShellExecute( hWnd : HWND; Operation, FileName, Parameters, Directory : PChar; ShowCmd : Integer ) : HINST
6495: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6496: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6497: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6498: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6499: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT ) : HICON
6500: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6501: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6502: Function ExtractIconEx( lpszFile : PChar; nIconIndex : Int; var phiconLarge, phiconSmall : HICON; nIcons : UINT ) : UINT
6503: Procedure SHFreeNameMappings( hNameMappings : THandle )
6504:
6505: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001);
6506: DLLVER_PLATFORM_NT', 'LongWord( $00000002);
6507: DLLVER_MAJOR_MASK', 'LongWord( Int64( $FFFF000000000000 ) );
6508: DLLVER_MINOR_MASK', 'LongWord( Int64( $0000FFFF00000000 ) );
6509: DLLVER_BUILD_MASK', 'LongWord( Int64( $00000000FFFF0000 ) );
6510: DLLVER_QFE_MASK', 'LongWord( Int64( $000000000000FFFF ) );
6511: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6512: Function SimpleXMLEncode( const S : string ) : string
6513: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6514: Function XMLEncode( const S : string ) : string

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6515: Function XMLDecode( const S : string) : string
6516: Function EntityEncode( const S : string) : string
6517: Function EntityDecode( const S : string) : string
6518:
6519: procedure RIRegister_CPort_Routines(S: TPSEExec);
6520: Procedure EnumComPorts( Ports : TStrings)
6521: Procedure ListComPorts( Ports : TStrings)
6522: Procedure ComPorts( Ports : TStrings) //Alias to Arduino
6523: Function GetComPorts: TStringlist;
6524: Function StrToBaudRate( Str : string) : TBaudRate
6525: Function StrToStopBits( Str : string) : TStopBits
6526: Function StrToDataBits( Str : string) : TDataBits
6527: Function StrToParity( Str : string) : TParityBits
6528: Function StrToFlowControl( Str : string) : TFlowControl
6529: Function BaudRateToStr( BaudRate : TBaudRate) : string
6530: Function StopBitsToStr( StopBits : TStopBits) : string
6531: Function DataBitsToStr( DataBits : TDataBits) : string
6532: Function ParityToStr( Parity : TParityBits) : string
6533: Function FlowControlToStr( FlowControl : TFlowControl) : string
6534: Function ComErrorsToStr( Errors : TComErrors) : String
6535:
6536: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT) : BOOL
6537: Function DispatchMessage( const lpMsg : TMsg) : Longint
6538: Function TranslateMessage( const lpMsg : TMsg) : BOOL
6539: Function SetMessageQueue( cMessagesMax : Integer) : BOOL
6540: Function PeekMessage( var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT):BOOL
6541: Function GetMessagePos : DWORD
6542: Function GetMessageTime : Longint
6543: Function GetMessageExtraInfo : Longint
6544: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean) : string
6545: Procedure JAddToRecentDocs( const Filename : string)
6546: Procedure ClearRecentDocs
6547: Function ExtractIconFromFile( FileName : string; Index : Integer) : HICON
6548: Function CreateShellLink( const AppName, Desc : string; Dest : string) : string
6549: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo)
6550: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo)
6551: Function RecycleFile( FileToRecycle : string) : Boolean
6552: Function JCopyFile( FromFile, ToDir : string) : Boolean
6553: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType) : UINT
6554: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT) : TShellObjectType
6555: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6556: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6557: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6558: Function EnumServicesStatusExA(hSCManager: SC_HANDLE; InfoLevel: SC_ENUM_TYPE; dwServiceType: DWORD; dwServiceState: DWORD; lpServices:LPBYTE; cbBufSize:DWORD;var pcbBytesNeeded,lpServicesReturned, lpResumeHandle:DWORD;pszGroupName: LP
6559: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices:LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned, lpResumeHandle:DWORD; pszGroupName: WIDECHAR)
6560: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned, lpResumeHandle:DWORD; pszGroupName: WIDECHAR)
6561: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR) : BOOL
6562:
6563: ***** unit uPSI_JclPeImage;
6564:
6565: Function IsValidPeFile( const FileName : TFileName) : Boolean
6566: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders) : Boolean
6567: Function PeCreateNameHintTable( const FileName : TFileName) : Boolean
6568: Function PeRebaseImage(const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6569: Function PeVerifyCheckSum( const FileName : TFileName) : Boolean
6570: Function PeClearCheckSum( const FileName : TFileName) : Boolean
6571: Function PeUpdateCheckSum( const FileName : TFileName) : Boolean
6572: Function PeDoesExportFunction(const FileName:TFileName;const FuncName:string;Options:TJclSmartCompOptions):Bool;
6573: Function PeIsExportFunctionForwardedEx( const FileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions) : Boolean
6574: Function PeIsExportFunctionForwarded(const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6575: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions) : Boolean
6576: Function PeDoesImportLibrary(const FileName:TFileName;const LibraryName:string;Recursive:Boolean):Boolean;
6577: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean) : Boolean
6578: Function PeImportedFunctions(const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string; IncludeLibNames : Boolean) : Boolean
6579: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6580: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6581: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6582: Function PeResourceKindNames(const FileN:TFileName;ResourceType:TJclPeResourceKind;const NamesList:TStrings):Bool
6583: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings) : Boolean
6584: Function PeBorDependedPackages(const FileName:TFileName;PackagesList:TStrings;FullPathName, Descript:Bool):Bool;

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6585: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6586: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6587: Function PeCreateRequiredImportList(const FileName: TFileName; RequiredImportsList: TStrings): Boolean;
6588: //Function PeMapImgNtHeaders( const BaseAddress : Pointer) : PImageNtHeaders
6589: //Function PeMapImgLibraryName( const BaseAddress : Pointer) : string
6590: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders) : PImageSectionHeader
6591: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) :
   PImageSectionHeader
6592: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6593: //Function PeMapImgResolvePackageThunk( Address : Pointer) : Pointer
6594: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):_
   Pointer;
6595:   SIRegister_TJclPeSectionStream(CL);
6596:   SIRegister_TJclPeMapImgHookItem(CL);
6597:   SIRegister_TJclPeMapImgHooks(CL);
6598: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var
   NtHeaders:TImageNtHeaders):Boolean
6599: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6600: Type TJclBorUmSymbolKind,'(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6601: TJclBorUmSymbolModifier,'( smQualified, smLinkProc )
6602: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6603: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6604: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6605: TJclPeUmResult', '( unNotMangled, umBorland, umMicrosoft )
6606: Function PeBorUmUnmangleName( const Name : string; var Unmangled : string; var Description :
   TJclBorUmDescription; var BasePos : Integer) : TJclBorUmResult;
6607: Function PeBorUmUnmangleName1(const Name:string;var Unmangled:string;var
   Description:TJclBorUmDescription):TJclBorUmResult;
6608: Function PeBorUmUnmangleName2( const Name : string; var Unmangled : string) : TJclBorUmResult;
6609: Function PeBorUmUnmangleName3( const Name : string) : string;
6610: Function PeIsNameMangled( const Name : string) : TJclPeUmResult
6611: Function PeUnmangleName( const Name : string; var Unmangled : string) : TJclPeUmResult
6612:
6613:
6614: //***** SysTools uPSI_StSystem; *****
6615: Function StCopyFile( const SrcPath, DestPath : AnsiString) : Cardinal
6616: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString) : AnsiString
6617: Function DeleteVolumeLabel( Drive : Char) : Cardinal
6618: //Procedure EnumerateDirectories(const
   StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6619: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
   IncludeItem:TIncludeItemFunc);
6620: Function FileHandlesLeft( MaxHandles : Cardinal) : Cardinal
6621: Function FileMatchesMask( const FileName, FileMask : AnsiString) : Boolean
6622: Function FileTimeToStDateTime( FileTime : LongInt) : TStDateTimeRec
6623: Function FindNthSlash( const Path : AnsiString; n : Integer) : Integer
6624: Function FlushOsBuffers( Handle : Integer) : Boolean
6625: Function GetCurrentUser : AnsiString
6626: Function GetDiskClass( Drive : Char) : DiskClass
6627: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
   SectorsPerCluster:Cardinal):Bool;
6628: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var
   DiskSize:Double):Bool;
6629: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
   DiskSize:Comp):Boolean;
6630: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6631: Function getDiskSpace2(const path: String; index: integer): int64;
6632: Function GetFileCreateDate( const FileName : Ansistring) : TDateTime
6633: Function StGetFileLastAccess( const FileName : AnsiString) : TDateTime
6634: Function GetfileLastModify( const FileName : Ansistring) : TDateTime
6635: Function GetHomeFolder( aForceSlash : Boolean) : AnsiString
6636: Function GetLongPath( const APath : AnsiString) : AnsiString
6637: Function GetMachineName : AnsiString
6638: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType) : Cardinal
6639: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean) : AnsiString
6640: Function GetShortPath( const APath : AnsiString) : AnsiString
6641: Function GetSystemFolder( aForceSlash : Boolean) : AnsiString
6642: Function GetTempFolder( aForceSlash : boolean) : AnsiString
6643: Function StGetWindowsFolder( aForceSlash : boolean) : AnsiString
6644: Function GetWorkingFolder( aForceSlash : boolean) : AnsiString
6645: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer) : TStDateTimeRec
6646: Function StIsDirectory( const DirName : AnsiString) : Boolean
6647: Function IsDirectoryEmpty( const S : AnsiString) : Integer
6648: Function IsDriveReady( Drive : Char) : Boolean
6649: Function IsFile( const FileName : AnsiString) : Boolean
6650: Function IsFileArchive( const S : AnsiString) : Integer
6651: Function IsFileHidden( const S : AnsiString) : Integer
6652: Function IsFileReadOnly( const S : AnsiString) : Integer
6653: Function IsFileSystem( const S : AnsiString) : Integer
6654: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer) : TStDateTimeRec
6655: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char) : Cardinal
6656: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer) : Boolean
6657: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType) : Cardinal
6658: Procedure SplitPath( const APath : AnsiString; Parts : TStrings)
6659: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec) : LongInt
6660: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec) : Longint
6661: Function UnixTimeToStDateTime( UnixTime : Longint) : TStDateTimeRec
6662: Function ValidDrive( Drive : Char) : Boolean
6663: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char) : Cardinal

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

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6749: +'ooke, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6750: +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6751: +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6752: +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6753: +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6754: +'nection, hntOrigin, hntKeepAlive )
6755: THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6756: THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6757: +' AnsiString; end
6758: //THTTPCustomHeader', '^THTTPCustomHeader // will not work
6759: THTTPContentLengthEnum', '( hcLNone, hcLByteCount )
6760: THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6761: //THTTPContentLength', '^THTTPContentLength // will not work
6762: THTTPContentTypeMajor', '( hctmCustom, hctmText, hctmImage )
6763: THTTPContentTypeEnum', '( hctNone, hctCustomParts, hctCustomStri'
6764: +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6765: +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6766: +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScipt, hctAppli'
6767: +'ctionCustom, hctAudioCustom, hctVideoCustom )
6768: THTTPContentType', 'record Value : THTTPContentTypeEnum; CustomM'
6769: +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6770: +'CustomStr : AnsiString; end
6771: THTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )'
6772: THTTPDateField', 'record Value : THTTPDateFieldEnum; DayOfWeek :'
6773: +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6774: +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6775: +'String; DateTime : TDateTime; Custom : AnsiString; end
6776: THTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )'
6777: THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnum'
6778: +'m; Custom : AnsiString; end
6779: THTTPConnectionFieldEnum', '( hcfnNone, hcfcCustom, hcfcClose, hcfcKeepAlive )'
6780: THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6781: +' Custom : AnsiString; end
6782: THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )'
6783: THTTPAgeField', 'record Value : THTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6784: THTTPCacheControlFieldEnum', '( hccfnNone, hccfDecoded, hccfCustom )'
6785: THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6786: +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )'
6787: THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6788: +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6789: +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )'
6790: THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end
6791: THTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6792: +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )'
6793: THTTPContentEncoding', 'record Value:THTTPContentEncodingEnum;Custom:AnsiString; end;
6794: THTTPContentEncodingException', '( hcfeNone, hcfeList )'
6795: THTTPContentEncodingException', 'record Value : THTTPContentEncoding'
6796: +'FieldEnum; List : array of THTTPContentEncoding; end
6797: THTTPRetryAfterFieldEnum', '( hrarfNone, hrarfCustom, harfDate, harfSeconds )'
6798: THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum; '
6799: +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6800: THTTPContentRangeFieldEnum', '( hrcfNone, hrcfCustom, hrcfByteRange )'
6801: THTTPContentRangeField', 'record Value : THTTPContentRangeFieldE'
6802: +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6803: THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )'
6804: THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6805: THTTPSetCookieCustomFieldArray', 'array of THTTPSetCookieCustomField
6806: THTTPSetCookieField', 'record Value : THTTPSetCookieFieldEnum; D'
6807: +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : '
6808: +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSetCookie'
6809: +'CustomFieldArray; Custom : AnsiString; end
6810: //THTTPSetCookieField', '^THTTPSetCookieField // will not work
6811: THTTPSetCookieFieldArray', 'array of THTTPSetCookieField
6812: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )'
6813: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6814: //THTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6815: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6816: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries'
6817: +' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6818: THTTPCommonHeaders', 'record TransferEncoding : THTTPTransferEnc'
6819: +'oding; ContentType : THTTPContentType; ContentLength : THTTPContentLength; '
6820: +' Connection : THTTPConnectionField; ProxyConnection : THTTPConnectionField'
6821: +' ; Date : THTTPDateField; ContentEncoding : THTTPContentEncodingField; end
6822: THTTPCustomHeaders', 'array of THTTPCustomHeader
6823: //THTTPFixedHeaders', 'array[THTTPHeaderNameEnum] of AnsiString
6824: THTTPFixedHeaders', 'array[0..42] of AnsiString
6825: THTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6826: +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )'
6827: THTTPMethod', 'record Value : THTTPMethodEnum; Custom : AnsiString; end
6828: THTTPRequestStartLine', 'record Method: THTTPMethod;URI: AnsiString;Version:THTTPVersion; end
6829: THTTPRequestHeader', 'record CommonHeaders : THTTPCommonHeaders; '
6830: +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo'
6831: +'kie : THTTPCookieField; IfModifiedSince:THTTPDateField;IfUnmodifiedSince:THTTPDateField;end
6832: //THTTPRequestHeader', '^THTTPRequestHeader // will not work
6833: THTTPRequest', 'record StartLine : THTTPRequestStartLine; Header'
6834: +' : THTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6835: THTTPResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK)'
6836: THTTPResponseStartLine', 'record Version : THTTPVersion; Code : '
6837: +'Integer; Msg : THTTPResponseStartLineMessage; CustomMsg : AnsiString; end

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6838: THTTPResponseHeader', 'record CommonHeaders : THTTPCommonHeaders'
6839: +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6840: +'okies : THTTPSetCookieFieldArray; Expires : THTTPDateField; LastModified :'
6841: +' THTTPDateField; Age : THTTPAgeField; end
6842: //THTTPResponseHeader', '^THTTPResponseHeader // will not work
6843: THTTPResponse', 'record StartLine : THTTPResponseStartLine; Head'
6844: +'er : THTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6845: Function HTTPMessageHasContent( const H : THTTPCommonHeaders ) : Boolean
6846: Procedure InitHTTPRequest( var A : THTTPRequest )
6847: Procedure InitHTTPResponse( var A : THTTPResponse )
6848: Procedure ClearHTTPVersion( var A : THTTPVersion )
6849: Procedure ClearHTTPContentLength( var A : THTTPContentLength )
6850: Procedure ClearHTTPContentType( var A : THTTPContentType )
6851: Procedure ClearHTTPDateField( var A : THTTPDateField )
6852: Procedure ClearHTTPTransferEncoding( var A : THTTPTransferEncoding )
6853: Procedure ClearHTTPConnectionField( var A : THTTPConnectionField )
6854: Procedure ClearHTTPAgeField( var A : THTTPAgeField )
6855: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding )
6856: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField )
6857: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField )
6858: Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField )
6859: Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders )
6860: //Procedure ClearHTTPFixedHeaders( var A : THTTPFixedHeaders )
6861: Procedure ClearHTTPCustomHeaders( var A : THTTPCustomHeaders )
6862: Procedure ClearHTTPCookieField( var A : THTTPCookieField )
6863: Procedure ClearHTTPMethod( var A : THTTPMethod )
6864: Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine )
6865: Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader )
6866: Procedure ClearHTTPRequest( var A : THTTPRequest )
6867: Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine )
6868: Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader )
6869: Procedure ClearHTTPResponse( var A : THTTPResponse )
6870: THTTPStringOption', '( hsoNone )
6871: THTTPStringOptions', 'set of THTTPStringOption
6872: FindClass('TOBJECT'), 'TansiStringBuilder
6873:
6874: Procedure BuildStrHTTPVersion(const A:THTTPVersion;const B:TansiStringBuilder; P:THTTPStringOptions;
6875: Procedure BuildStrHTTPContentLengthValue(const
6876: A:THTTPContentLength;B:TansiStringBuilder;P:THTTPStringOptions)
6877: Procedure BuildStrHTTPContentLength(const A : THTTPContentLength;
6878: B:TansiStringBuilder;P:THTTPStringOptions)
6879: Procedure BuildStrHTTPContentTypeValue(const A:THTTPContentType;B:TansiStringBuilder;const
6880: P:THTTPStringOptions)
6881: Procedure BuildStrHTTPContentType(const A:THTTPContType;const B:TansiStringBuilder; const
6882: P:THTTPStringOptions)
6883: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
6884: B : TansiStringBuilder; const P : THTTPStringOptions)
6885: Procedure BuildStrHTTPDateFieldValue( const A : THTTPDateField; const B : TansiStringBuilder; const P :
6886: THTTPStringOptions)
6887: Procedure BuildStrHTTPDateField(const A : THTTPDateField;const B:TansiStringBuilder;const
6888: P:THTTPStringOptions);
6889: Procedure BuildStrHTTPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
6890: TansiStringBuilder; const P : THTTPStringOptions)
6891: Procedure BuildStrHTTPTransferEncoding( const A : THTTPTransferEncoding; const B : TansiStringBuilder;
6892: const P : THTTPStringOptions)
6893: Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TansiStringBuilder;
6894: const P : THTTPStringOptions)
6895: Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TansiStringBuilder;
6896: const P : THTTPStringOptions)
6897: Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TansiStringBuilder;
6898: const P : THTTPStringOptions)
6899: Procedure BuildStrHTTPProxyConnectionField( const A : THTTPProxyConnectionField; const B : TansiStringBuilder;
6900: const P : THTTPStringOptions);

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6901: Procedure BuildStrHTTPResponseCookieFieldArray( const A : THTTPSetCookieFieldArray; const B : TAnsiStringBuilder; const P : THTTPStringOptions)
6902: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P:THTTPStrOptions);
6903: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const P:THTTPStringOptions);
6904: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const P:THTTPStringOptions);
6905: Function HTTPContentTypeValueToStr( const A : THTTPContentType) : AnsiString
6906: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField) : AnsiString
6907: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField) : AnsiString
6908: Function HTTPMethodToStr( const A : THTTPMethod) : AnsiString
6909: Function HTTPRequestToStr( const A : THTTPRequest) : AnsiString
6910: Function HTTPResponseToStr( const A : THTTPResponse) : AnsiString
6911: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const Domain:AnsiString;const Secure:Boolean; THTTPParserHeaderParseFunc', 'Function ( const HeaderName : THTT' + PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6912: SIRegister_THTTPParser(CL);
6913: FindClass('TOBJECT','THTTPContentDecoder')
6914: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder)
6915: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6916: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6917: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6918: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String)
6919: SIRegister_THTTPContentDecoder(CL);
6920: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6921: FindClass('TOBJECT','THTTPContentReader')
6922: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader)
6923: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const LogLevel:Int;
6924: SIRegister_THTTPContentReader(CL);
6925: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6926: FindClass('TOBJECT','THTTPContentWriter')
6927: THTTPContentWriterLogEvent', 'Procedure ( const Sender : THTTPContentWriter;const LogMsg:AnsiString);
6928: SIRegister_THTTPContentWriter(CL);
6929: Procedure SelfTestcHTTPUtils
6930: end;
6931:
6932:
6933: (*-----*)
6934: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6935: begin
6936: 'TLSLibraryVersion', 'String '1.00
6937: 'TLSerror_None', 'LongInt'( 0 );
6938: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6939: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6940: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6941: 'TLSerror_InvalidState', 'LongInt'( 4 );
6942: 'TLSerror_DecodeError', 'LongInt'( 5 );
6943: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6944: Function TLSErrorMessage( const TLSerror : Integer) : String
6945: SIRegister_ETLSError(CL);
6946: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6947: TTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6948: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion)
6949: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion)
6950: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion)
6951: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion)
6952: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion) : Boolean
6953: Function IsSSL2( const A : TTLSProtocolVersion) : Boolean
6954: Function IsSSL3( const A : TTLSProtocolVersion) : Boolean
6955: Function IsTLS10( const A : TTLSProtocolVersion) : Boolean
6956: Function IsTLS11( const A : TTLSProtocolVersion) : Boolean
6957: Function IsTLS12( const A : TTLSProtocolVersion) : Boolean
6958: Function IsTLS10OrLater( const A : TTLSProtocolVersion) : Boolean
6959: Function IsTLS11OrLater( const A : TTLSProtocolVersion) : Boolean
6960: Function IsTLS12OrLater( const A : TTLSProtocolVersion) : Boolean
6961: Function IsFutureTLSVersion( const A : TTLSProtocolVersion) : Boolean
6962: Function IsKnownTLSVersion( const A : TTLSProtocolVersion) : Boolean
6963: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion) : String
6964: Function TLSProtocolVersionName( const A : TTLSProtocolVersion) : String
6965: PTLSRandom', '^PTLSRandom // will not work
6966: Procedure InitTLSRandom( var Random : TTLSRandom)
6967: Function TLSRandomToStr( const Random : TTLSRandom) : AnsiString
6968: 'TLSSessionIDMaxLen', 'LongInt'( 32 );
6969: Procedure InitTLSSessionID( var SessionID : TLSSessionID; const A : AnsiString)
6970: Function EncodedTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TLSSessionID):Int;
6971: Function DecodedTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TLSSessionID):Int;
6972: TTLSignatureAndHashAlgorithm', 'record Hash : TTLSShHashAlgorithm'
6973: +' ; Signature : TTLSignatureAlgorithm; end
6974: // TTLSignatureAndHashAlgorithm', '^TTLSignatureAndHashAlgorithm +'// will not work
6975: TTLSignatureAndHashAlgorithmArray', 'array of TTLSignatureAndHashAlgorithm
6976: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_'
6977: +' DSS, tlskeaDH_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6978: TTLSMACAlgorithm', '( tlsmaNone, tlsmaNULL, tlsmaHMAC_MD5, tlsma'
6979: +' HMAC_SHA1, tlsmaHMAC_SHA256, tlsmaHMAC_SHA384, tlsmaHMAC_SHA512 )
6980: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6981: +' nteger; Supported : Boolean; end
6982: PTLSMacAlgorithmInfo', '^PTLSMacAlgorithmInfo // will not work
6983: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );

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6984:  TTLSPRFAlgorithm', '( tlspaSHA256 )
6985:  Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6986:  Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6987:  Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6988:  Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6989:  Function tlsp10PRF( const Secret, ALABEL, Seed : AnsiString; const Size : Integer) : AnsiString
6990:  Function tlsp12PRF_SHA256( const Secret, ALABEL, Seed : AnsiString; const Size : Integer) : AnsiString
6991:  Function tlsp12PRF_SHA512( const Secret, ALABEL, Seed : AnsiString; const Size : Integer) : AnsiString
6992:  Function TLSPRF( const ProtoVersion:TTLSProtocolVersion, const Secret, ALABEL, Seed: AString; const
Size:Int):AString;
6993:  Function tlsl0KeyBlock(const MasterSecret, ServerRandom, ClientRandom:AnsiString; const
Size:Integer):AnsiString
6994:  Function tlsl2SHA256KeyBlock(const MasterSecret, ServerRandom, ClientRandom: AnsiString; const
Size:Int):AnsiString;
6995:  Function tlsl2SHA512KeyBlock(const MasterSecret, ServerRandom, ClientRandom: AnsiString; const
Size:Int):AnsiString;
6996:  Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer) : AnsiString
6997:  Function tlsl0MasterSecret(const PreMasterSecret, ClientRandom, ServerRandom:AnsiString) :AnsiString;
6998:  Function tlsl2SHA256MasterSecret(const PreMasterSecret, ClientRandom, ServerRandom:AnsiString):AnsiString;
6999:  Function tlsl2SHA512MasterSecret(const PreMasterSecret, ClientRandom, ServerRandom:AnsiString): AnsiString;
7000:  Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret, ClientRandom,
ServerRandom:AnsiString) : AnsiString
7001:  TTLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
7002:  +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
7003:  +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
7004:  Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys)
7005:  Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys)
7006:  'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1);
7007:  'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024);
7008:  Procedure SelfTestcTLSUtils
7009: end;
7010:
7011: (*-----*)
7012: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
7013: begin
7014:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
7015: // pBoard', '^tBoard // will not work
7016: Function rCalculateData( cc : byte; cx, cy : integer) : sPosData
7017: Function rCheckMove( color : byte; cx, cy : integer) : integer
7018: //Function rDoStep( data : pBoard) : word
7019: Function winExecAndWait( const sAppPath : string; wVisible : word) : boolean
7020: end;
7021:
7022: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
7023: begin
7024: Function InEditMode( ADataset : TDataset ) : Boolean
7025: Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
7026: Function CheckDataSource1( ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
7027: Function GetFieldText( AField : TField ) : String
7028: end;
7029:
7030: procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
7031: begin
7032:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
7033:   TMyPrintRange', '( prAll, prSelected )
7034:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
7035:   +'ded, ssDateTime, ssTime, ssCustom )
7036:   TSortDirection', '( sdAscending, sdDescending )
7037:   TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
7038:   TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integ'
7039:   +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
7040:   TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
7041:   TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
7042:   SIRegister_TSortOptions(CL);
7043:   SIRegister_TPrintOptions(CL);
7044:   TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
7045:   SIRegister_TSortedList(CL);
7046:   TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
7047:   TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
7048:   TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
7049:   TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
7050:   +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
7051:   SIRegister_TFontSetting(CL);
7052:   SIRegister_TFontlist(CL);
7053:   AddTypeS(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row : '
7054:   +'integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool );
7055:   TSetFilterEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
7056:   TSearchEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
7057:   TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
7058:   TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
7059:   TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
7060:   TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
7061:   TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer
7062:   +'r; var SortStyle : TSortStyle)
7063:   TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow : '

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7064: +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
7065: SIRegister_TSortGrid(CL);
7066: Function ExtendedCompare( const Str1, Str2 : String) : Integer
7067: Function NormalCompare( const Str1, Str2 : String) : Integer
7068: Function DateTimeCompare( const Str1, Str2 : String) : Integer
7069: Function NumericCompare( const Str1, Str2 : String) : Integer
7070: Function TimeCompare( const Str1, Str2 : String) : Integer
7071: //Function Compare( Item1, Item2 : Pointer) : Integer
7072: end;
7073:
7074: ***** procedure Register_IB(CL: TPSPascalCompiler);
7075: Procedure IBAalloc( var P, OldSize, NewSize : Integer)
7076: Procedure IBEerror( ErrMess : TIBClientError; const Args : array of const)
7077: Procedure IB DataBaseError
7078: Function StatusVector : PISC_STATUS
7079: Function StatusVectorArray : PStatusVector
7080: Function CheckStatusVector( ErrorCodes : array of ISC_STATUS) : Boolean
7081: Function StatusVectorAsText : string
7082: Procedure SetIB DataBaseErrorMessages( Value : TIB DataBaseErrorMessages)
7083: Function GetIB DataBaseErrorMessages : TIB DataBaseErrorMessages
7084:
7085:
7086: //*****unit uPSI_BoldUtils;*****
7087: Function CharCount( c : char; const s : string) : integer
7088: Function BoldNamesEqual( const name1, name2 : string) : Boolean
7089: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7090: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7091: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string) : string
7092: Function BoldTrim( const S : string) : string
7093: Function BoldIsPrefix( const S, Prefix : string) : Boolean
7094: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
7095: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7096: Function BoldAnsiEqual( const S1, S2 : string) : Boolean
7097: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer) : Boolean
7098: Function BoldCaseIndependentPos( const Substr, S : string) : Integer
7099: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7100: Function CapitalisedToSpaced( Capitalised : String) : String
7101: Function SpacedToCapitalised( Spaced : String) : String
7102: Function BooleanToString( BoolValue : Boolean) : String
7103: Function StringToBoolean( StrValue : String) : Boolean
7104: Function GetUpperLimitForMultiplicity( const Multiplicity : String) : Integer
7105: Function GetLowerLimitForMultiplicity( const Multiplicity : String) : Integer
7106: Function StringListToVarArray( List : TStringList) : variant
7107: Function IsLocalMachine( const Machinename : WideString) : Boolean
7108: Function GetComputerNameStr : string
7109: Function TimeStampComp( const Time1, Time2 : TTimeStamp) : Integer
7110: Function BoldStrToDateFmt( const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7111: Function BoldDateToStrFmt( const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7112: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7113: Function BoldParseFormattedDate(const value:String;const formats:array of string; var Date:TDateTime):Boolean;
7114: Procedure EnsureTrailing( var Str : String; ch : char)
7115: Function BoldDirectoryExists( const Name : string) : Boolean
7116: Function BoldForceDirectories( Dir : string) : Boolean
7117: Function BoldRootRegistryKey : string
7118: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7119: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7120: Function LogicalAnd( A, B : Integer) : Boolean
7121: record TByHandleFileInformation dwFileAttributes : DWORD;
7122:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7123:   +': TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSize'
7124:   +'eLow : DWORD; nNumberOfLinks : DWORD; nfileIndexHigh : DWORD; nfileIndexLow : DWORD; end
7125: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7126: Function IsFirstInstance : Boolean
7127: Procedure ActivateFirst( AString : PChar)
7128: Procedure ActivateFirstCommandLine
7129: function MakeAckPkt(const BlockNumber: Word): string;
7130: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string);
7131: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7132: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7133: procedure SendError(UDPClient: TIdUDPClient; E: Exception); overload;
7134: function IdStrToWord(const Value: String): Word;
7135: function IdWordToStr(const Value: Word): WordStr;
7136: Function HasInstructionSet( const InstructionSet : TCPUInstructionSet) : Boolean
7137: Function CPUFeatures : TCPUFeatures
7138:
7139: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7140: begin
7141:   AddTypeS('TXRTLBitIndex', 'Integer'
7142:   Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7143:   Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7144:   Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7145:   Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7146:   Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7147:   Function XRTLSwapHiLo16( X : Word) : Word
7148:   Function XRTLSwapHiLo32( X : Cardinal) : Cardinal
7149:   Function XRTLSwapHiLo64( X : Int64) : Int64
7150:   Function XRTLROL32( A, S : Cardinal) : Cardinal
7151:   Function XRTLROL32( A, S : Cardinal) : Cardinal

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7152: Function XRTLROL16( A : Word; S : Cardinal ) : Word
7153: Function XRTLROL16( A : Word; S : Cardinal ) : Word
7154: Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7155: Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7156: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7157: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7158: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer )
7159: Function XRTLPopulation( A : Cardinal ) : Cardinal
7160: end;
7161:
7162: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7163: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7164: Function XRTLURINormalize( const AURI : WideString ) : WideString
7165: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
    VPassword : WideString)
7166: Function XRTLExtractLongPathName(APath: string): string;
7167:
7168: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7169: begin
7170:   AddTypeS('Int8', 'ShortInt'
7171:   AddTypeS('Int16', 'SmallInt'
7172:   AddTypeS('Int32', 'LongInt'
7173:   AddTypeS('UInt8', 'Byte'
7174:   AddTypeS('UInt16', 'Word'
7175:   AddTypeS('UInt32', 'LongWord'
7176:   AddTypeS('UInt64', 'Int64'
7177:   AddTypeS('Word8', 'UInt8'
7178:   AddTypeS('Word16', 'UInt16'
7179:   AddTypeS('Word32', 'UInt32'
7180:   AddTypeS('Word64', 'UInt64'
7181:   AddTypeS('LargeInt', 'Int64'
7182:   AddTypeS('NativeInt', 'Integer'
7183:   AddTypeS('NativeUInt', 'Cardinal
7184:   Const('BitsPerByte','LongInt'( 8 );
7185:   Const('BitsPerWord','LongInt'( 16 );
7186:   Const('BitsPerLongWord','LongInt'( 32 );
7187: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7188: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7189: Function MinI( const A, B : Integer ) : Integer
7190: Function MaxI( const A, B : Integer ) : Integer
7191: Function MinC( const A, B : Cardinal ) : Cardinal
7192: Function MaxC( const A, B : Cardinal ) : Cardinal
7193: Function SumClipI( const A, I : Integer ) : Integer
7194: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7195: Function InByteRange( const A : Int64 ) : Boolean
7196: Function InWordRange( const A : Int64 ) : Boolean
7197: Function InLongWordRange( const A : Int64 ) : Boolean
7198: Function InShortIntRange( const A : Int64 ) : Boolean
7199: Function InSmallIntRange( const A : Int64 ) : Boolean
7200: Function InLongIntRange( const A : Int64 ) : Boolean
7201: AddTypeS('Bool8', 'ByteBool'
7202: AddTypeS('Bool16', 'WordBool
7203: AddTypeS('Bool32', 'LongBool
7204: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7205: AddTypeS('TCompareResultSet', 'set of TCompareResult
7206: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7207: Const('MinSingle','Single').setExtended( 1.5E-45 );
7208: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7209: Const('MinDouble','Double').setExtended( 5.0E-324 );
7210: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7211: Const('MinExtended','Extended').setExtended(3.4E-4932 );
7212: Const('MaxExtended','Extended').setExtended(1.1E+4932 );
7213: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );
7214: Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807 );
7215: Function MinF( const A, B : Float ) : Float
7216: Function MaxF( const A, B : Float ) : Float
7217: Function ClipF( const Value : Float; const Low, High : Float ) : Float
7218: Function InSingleRange( const A : Float ) : Boolean
7219: Function InDoubleRange( const A : Float ) : Boolean
7220: Function InCurrencyRange( const A : Float ) : Boolean;
7221: Function InCurrencyRangel( const A : Int64 ) : Boolean;
7222: Function FloatExponentBase2( const A : Extended; var Exponent : Integer ) : Boolean
7223: Function FloatExponentBase10( const A : Extended; var Exponent : Integer ) : Boolean
7224: Function FloatIsInfinity( const A : Extended ) : Boolean
7225: Function FloatIsNaN( const A : Extended ) : Boolean
7226: Const('SingleCompareDelta','Extended').setExtended( 1.0E-34 );
7227: Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280 );
7228: Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400 );
7229: Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34 );
7230: Function FloatZero( const A : Float; const CompareDelta : Float ) : Boolean
7231: Function FloatOne( const A : Float; const CompareDelta : Float ) : Boolean
7232: Function FloatsEqual( const A, B : Float; const CompareDelta : Float ) : Boolean
7233: Function FloatsCompare( const A, B : Float; const CompareDelta : Float ) : TCompareResult
7234: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5 );
7235: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13 );
7236: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17 );
7237: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10 );
7238: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double ) : Boolean
7239: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double): TCompareResult

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7240: Function cClearBit( const Value, BitIndex : LongWord) : LongWord
7241: Function cSetBit( const Value, BitIndex : LongWord) : LongWord
7242: Function cIsBitSet( const Value, BitIndex : LongWord) : Boolean
7243: Function cToggleBit( const Value, BitIndex : LongWord) : LongWord
7244: Function cIsHighBitSet( const Value : LongWord) : Boolean
7245: Function SetBitScanForward( const Value : LongWord) : Integer;
7246: Function SetBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7247: Function SetBitScanReverse( const Value : LongWord) : Integer;
7248: Function SetBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7249: Function ClearBitScanForward( const Value : LongWord) : Integer;
7250: Function ClearBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7251: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7252: Function ClearBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7253: Function cReverseBits( const Value : LongWord) : LongWord;
7254: Function cReverseBits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7255: Function cSwapEndian( const Value : LongWord) : LongWord
7256: Function cTwosComplement( const Value : LongWord) : LongWord
7257: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word
7258: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord
7259: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word
7260: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord
7261: Function cBitCount( const Value : LongWord) : LongWord
7262: Function cIsPowerOfTwo( const Value : LongWord) : Boolean
7263: Function LowBitMask( const HighBitIndex : LongWord) : LongWord
7264: Function HighBitMask( const LowBitIndex : LongWord) : LongWord
7265: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord
7266: Function SetbitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7267: Function ClearBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7268: Function ToggleBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7269: Function IsBitRangeSet( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7270: Function IsBitRangeClear( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7271: // AddTypeS('CharSet', 'set of AnsiChar'
7272: AddTypes('CharSet', 'set of Char' //!!!
7273: AddTypes('AnsiCharSet', 'TCharSet'
7274: AddTypes('ByteSet', 'set of Byte'
7275: AddTypeS('AnsiChar', 'Char
7276: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7277: Function AsByteSet( const C : array of Byte) : ByteSet
7278: Procedure ComplementChar( var C : CharSet; const Ch : Char)
7279: Procedure ClearCharSet( var C : CharSet)
7280: Procedure FillCharSet( var C : CharSet)
7281: procedure FillCharSearchRec; // with 0
7282: Procedure ComplementCharSet( var C : CharSet)
7283: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7284: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet)
7285: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet)
7286: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet)
7287: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7288: Function IsSubSet( const A, B : CharSet) : Boolean
7289: Function IsEqual( const A, B : CharSet) : Boolean
7290: Function IsEmpty( const C : CharSet) : Boolean
7291: Function IsComplete( const C : CharSet) : Boolean
7292: Function cCharCount( const C : CharSet) : Integer
7293: Procedure ConvertCaseInsensitive( var C : CharSet)
7294: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet
7295: Function IntRangeLength( const Low, High : Integer) : Int64
7296: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean
7297: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean
7298: Function IntRangeHasElement( const Low, High, Element : Integer) : Boolean
7299: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer) : Boolean
7300: Function IntRangeIncludeElementRange(var Low, High:Integer;const LowElement,HighElement:Integer):Boolean
7301: Function CardRangeLength( const Low, High : Cardinal) : Int64
7302: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7303: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7304: Function CardRangeHasElement( const Low, High, Element : Cardinal) : Boolean
7305: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal) : Boolean
7306: Function CardRangeIncludeElementRange(var Low, High:Card;const LowElement,HighElement:Card):Boolean
7307: AddTypes('UnicodeChar', 'WideChar
7308: Function Compare( const I1, I2 : Boolean) : TCompareResult;
7309: Function CompareI( const I1, I2 : Integer) : TCompareResult;
7310: Function Compare2( const I1, I2 : Int64) : TCompareResult;
7311: Function Compare3( const I1, I2 : Extended) : TCompareResult;
7312: Function CompareA( const I1, I2 : AnsiString) : TCompareResult
7313: Function CompareW( const I1, I2 : WideString) : TCompareResult
7314: Function cSgn( const A : LongInt) : Integer;
7315: Function cSgn1( const A : Int64) : Integer;
7316: Function cSgn2( const A : Extended) : Integer;
7317: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )
7318: Function AnsiCharToInt( const A : AnsiChar) : Integer
7319: Function WideCharToInt( const A : WideChar) : Integer
7320: Function CharToInt( const A : Char) : Integer
7321: Function IntToAnsiChar( const A : Integer) : AnsiChar
7322: Function IntToWideChar( const A : Integer) : WideChar
7323: Function IntToChar( const A : Integer) : Char
7324: Function IsHexAnsiChar( const Ch : AnsiChar) : Boolean
7325: Function IsHexWideChar( const Ch : WideChar) : Boolean
7326: Function IsHexChar( const Ch : Char) : Boolean
7327: Function HexAnsiCharToInt( const A : AnsiChar) : Integer
7328: Function HexWideCharToInt( const A : WideChar) : Integer

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7329: Function HexCharToInt( const A : Char ) : Integer
7330: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar
7331: Function IntToUpperHexWideChar( const A : Integer ) : WideChar
7332: Function IntToUpperHexChar( const A : Integer ) : Char
7333: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar
7334: Function IntToLowerHexWideChar( const A : Integer ) : WideChar
7335: Function IntToLowerHexChar( const A : Integer ) : Char
7336: Function IntToStringA( const A : Int64 ) : AnsiString
7337: Function IntToStringW( const A : Int64 ) : WideString
7338: Function IntToString( const A : Int64 ) : String
7339: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7340: Function UIntToStringW( const A : NativeUInt ) : WideString
7341: Function UIntToString( const A : NativeUInt ) : String
7342: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7343: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7344: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7345: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7346: Function LongWordToHexA( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString;
7347: Function LongWordToHexW( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString;
7348: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7349: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7350: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7351: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7352: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7353: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7354: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7355: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7356: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7357: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7358: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7359: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7360: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7361: Function StringToInt64A( const S : AnsiString ) : Int64
7362: Function StringToInt64W( const S : WideString ) : Int64
7363: Function StringToInt64( const S : String ) : Int64
7364: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7365: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7366: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7367: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7368: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7369: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7370: Function StringToIntA( const S : AnsiString ) : Integer
7371: Function StringToIntW( const S : WideString ) : Integer
7372: Function StringToInt( const S : String ) : Integer
7373: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7374: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7375: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7376: Function StringToLongWordA( const S : AnsiString ) : LongWord
7377: Function StringToLongWordW( const S : WideString ) : LongWord
7378: Function StringToLongWord( const S : String ) : LongWord
7379: Function HexToUIntA( const S : AnsiString ) : NativeUInt
7380: Function HexToUIntW( const S : WideString ) : NativeUInt
7381: Function HexToUInt( const S : String ) : NativeUInt
7382: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7383: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7384: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7385: Function HexToLongWordA( const S : AnsiString ) : LongWord
7386: Function HexToLongWordW( const S : WideString ) : LongWord
7387: Function HexToLongWord( const S : String ) : LongWord
7388: Function TryOctToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7389: Function TryOctToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7390: Function TryOctToLongWord( const S : String; out A : LongWord ) : Boolean
7391: Function OctToLongWordA( const S : AnsiString ) : LongWord
7392: Function OctToLongWordW( const S : WideString ) : LongWord
7393: Function OctToLongWord( const S : String ) : LongWord
7394: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7395: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7396: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7397: Function BinToLongWordA( const S : AnsiString ) : LongWord
7398: Function BinToLongWordW( const S : WideString ) : LongWord
7399: Function BinToLongWord( const S : String ) : LongWord
7400: Function FloatToStringA( const A : Extended ) : AnsiString
7401: Function FloatToStringW( const A : Extended ) : WideString
7402: Function FloatToString( const A : Extended ) : String
7403: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7404: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7405: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7406: Function StringToFloatA( const A : AnsiString ) : Extended
7407: Function StringToFloatW( const A : WideString ) : Extended
7408: Function StringToFloat( const A : String ) : Extended
7409: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7410: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7411: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7412: Function EncodeBase64( const S, Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const PadChar: AnsiChar ) : AnsiString
7413: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7414: unit uPSI_cFundamentUtils;
7415: Const ('b64_MIMEBase64','Str').String('ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/-._@ABCDEFGHIJKLM NOPQRSTUVWXYZ[\]^_');
7416: Const ('b64_UUEncode','String').String('!'#$%&'()'*+,.-./0123456789:;=>?@ABCDEFGHIJKLM NOPQRSTUVWXYZ[\]^_');

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7417: Const ('b64_XXEncode', 'String').String('+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz');
7418: Const ('CCHARSET', 'Stringb64_XXEncode');
7419: Const ('CHEXSET', 'String'0123456789ABCDEF
7420: Const ('HEXDIGITS', 'String'0123456789ABCDEF
7421: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7422: Const ('DIGISET', 'String'0123456789
7423: Const ('LETTERSET', 'String'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
7424: Const ('DIGISET2', 'TCharset').SetSet('0123456789'
7425: Const ('LETTERSET2', 'TCharset').SetSet('ABCDEFGHIJKLMNOPQRSTUVWXYZ'
7426: Const ('HEXSET2', 'TCharset').SetSet('0123456789ABCDEF');
7427: Const ('NUMBERSET', 'TCharset').SetSet('0123456789');
7428: Const ('NUMBERS', 'String'0123456789');
7429: Const ('LETTERS', 'String'ABCDEFGHIJKLMNOPQRSTUVWXYZ');
7430: Function CharSetToStr( const C : CharSet) : AnsiString
7431: Function StrToCharSet( const S : AnsiString) : CharSet
7432: Function MIMEBase64Decode( const S : AnsiString) : AnsiString
7433: Function MIMEBase64Encode( const S : AnsiString) : AnsiString
7434: Function UUDecode( const S : AnsiString) : AnsiString
7435: Function XXDecode( const S : AnsiString) : AnsiString
7436: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean) : AnsiString
7437: Function InterfaceToStrA( const I : IInterface) : AnsiString
7438: Function InterfaceToStrW( const I : IInterface) : WideString
7439: Function InterfaceToStr( const I : IInterface) : String
7440: Function ObjectClassName( const O : TObject) : String
7441: Function ClassClassName( const C : TClass) : String
7442: Function ObjectToStr( const O : TObject) : String
7443: Function ObjectToString( const O : TObject) : String
7444: Function CharSetToStr( const C : CharSet) : AnsiString
7445: Function StrToCharSet( const S : AnsiString) : CharSet
7446: Function HashStrA(const S : AnsiString; const Index : Integer; const Count: Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7447: Function HashStrW(const S:WideString;const Index:Integer;const Count:Integer;const AsciiCaseSensitive:Boolean; const Slots:LongWord) : LongWord
7448: Function HashStr(const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7449: Function HashInteger( const I : Integer; const Slots : LongWord) : LongWord
7450: Function HashLongWord( const I : LongWord; const Slots : LongWord) : LongWord
7451: Const ('Bytes1KB','LongInt'( 1024));
7452: SIRegister_IInterface(CL);
7453: Procedure SelfTestCFundamentUtils
7454:
7455: Function CreateSchedule : IJclSchedule
7456: Function NullStamp : TTimeStamp
7457: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Int64
7458: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Boolean
7459: Function IsNullTimeStamp( const Stamp : TTimeStamp) : Boolean
7460:
7461: procedure SIRegister_uwinplot(CL: TPSPPascalCompiler);
7462: begin
7463: AddTypeS('TFunc', 'function(X : Float) : Float;
7464: Function InitGraphics( Width, Height : Integer) : Boolean
7465: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
7466: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
7467: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
7468: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float)
7469: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float)
7470: Procedure SetGraphTitle( Title : String)
7471: Procedure SetOxTitle( Title : String)
7472: Procedure SetOyTitle( Title : String)
7473: Function GetGraphTitle : String
7474: Function GetOxTitle : String
7475: Function GetOyTitle : String
7476: Procedure PlotOxAxis( Canvas : TCanvas)
7477: Procedure PlotOyAxis( Canvas : TCanvas)
7478: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7479: Procedure WriteGraphTitle( Canvas : TCanvas)
7480: Function SetMaxCurv( NCurv : Byte) : Boolean
7481: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7482: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7483: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7484: Procedure SetCurvStep( CurvIndex, Step : Integer)
7485: Function GetMaxCurv : Byte
7486: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7487: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7488: Function GetCurvLegend( CurvIndex : Integer) : String
7489: Function GetCurvStep( CurvIndex : Integer) : Integer
7490: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7491: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7492: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7493: Procedure PlotFunc(Canvas: TCanvas; Func: TFUnC; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7494: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7495: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7496: Function Xpixel( X : Float) : Integer
7497: Function Ypixel( Y : Float) : Integer
7498: Function Xuser( X : Integer) : Float
7499: Function Yuser( Y : Integer) : Float
7500: end;
7501:
7502: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)

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7503: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7504: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7505: Procedure FFT_Integer_Cleanup
7506: Procedure CalcFrequency(NumSamples, FrequencyIndex: Integer; InArray: TCompVector; var FT : Complex)
7507: //unit uPSI_JclStreams;
7508: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin) : Int64
7509: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer) : Int64
7510: Function CompareStreams( A, B : TStream; BufferSize : Integer) : Boolean
7511: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer) : Boolean
7512:
7513: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7514: begin
7515:   FindClass('TOBJECT'), 'EInvalidDest'
7516:   FindClass('TOBJECT'), 'EFCantMove'
7517:   Procedure fmxCopyFile( const FileName, DestName : string)
7518:   Procedure fmxMoveFile( const FileName, DestName : string)
7519:   Function fmxGetFileSize( const FileName : string) : LongInt
7520:   Function fmxFileDateTime( const FileName : string) : TDateTime
7521:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7522:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7523: end;
7524:
7525: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7526: begin
7527:   SIRegister_IFindFileIterator(CL);
7528:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7529: end;
7530:
7531: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7532: begin
7533:   Function SkipWhite( cp : PChar) : PChar
7534:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7535:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7536:   Function ReadIdent( cp : PChar; var ident : string) : PChar
7537: end;
7538:
7539: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7540: begin
7541:   SIRegister_TStringHashMapTraits(CL);
7542:   Function CaseSensitiveTraits : TStringHashMapTraits
7543:   Function CaseInsensitiveTraits : TStringHashMapTraits
7544:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod'
7545:   +'e; Right : PHashNode; end
7546: //PHashArray', '^THashArray // will not work
7547: SIRegister_TStringHashMap(CL);
7548: THashValue', 'Cardinal
7549: Function StrHash( const s : string) : THashValue
7550: Function TextHash( const s : string) : THashValue
7551: Function DataHash( var AValue, ASize : Cardinal) : THashValue
7552: Function Iterate_FreeObjects( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7553: Function Iterate_Dispose( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7554: Function Iterate_FreeMem( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7555: SIRegister_TCaseSensitiveTraits(CL);
7556: SIRegister_TCaseInsensitiveTraits(CL);
7557:
7558: //*****unit uPSI_umath;
7559: Function uExpo( X : Float) : Float
7560: Function uExp2( X : Float) : Float
7561: Function uExp10( X : Float) : Float
7562: Function uLog( X : Float) : Float
7563: Function uLog2( X : Float) : Float
7564: Function uLog10( X : Float) : Float
7565: Function uLogA( X, A : Float) : Float
7566: Function uIntPower( X : Float; N : Integer): Float
7567: Function uPower( X, Y : Float) : Float
7568: Function SgnGamma( X : Float) : Integer
7569: Function Stirling( X : Float) : Float
7570: Function StirLog( X : Float) : Float
7571: Function Gamma( X : Float) : Float
7572: Function LnGamma( X : Float) : Float
7573: Function DiGamma( X : Float) : Float
7574: Function TriGamma( X : Float) : Float
7575: Function IGamma( X : Float) : Float
7576: Function JGamma( X : Float) : Float
7577: Function InvGamma( X : Float) : Float
7578: Function Erf( X : Float) : Float
7579: Function Erfc( X : Float) : Float
7580: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7581: { Correlation coefficient between samples X and Y }
7582: function DBeta(A, B, X : Float) : Float;
7583: { Density of Beta distribution with parameters A and B }
7584: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7585: Function Beta(X, Y : Float) : Float
7586: Function Binomial( N, K : Integer) : Float
7587: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7588: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7589: Procedure LU_Decompo( A : TMatrix; Lb, Ub : Integer)
7590: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)

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7592: Function DNorm( X : Float ) : Float
7593:
7594:   function DGamma(A, B, X : Float) : Float;
7595:   { Density of Gamma distribution with parameters A and B }
7596:   function DKhi2(Nu : Integer; X : Float) : Float;
7597:   { Density of Khi-2 distribution with Nu d.o.f. }
7598:   function DStudent(Nu : Integer; X : Float) : Float;
7599:   { Density of Student distribution with Nu d.o.f. }
7600:   function DSnedecor(Nul, Nu2 : Integer; X : Float) : Float;
7601:   { Density of Fisher-Snedecor distribution with Nul and Nu2 d.o.f. }
7602:   function IBeta(A, B, X : Float) : Float;
7603:   { Incomplete Beta function}
7604:   function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7605:
7606:   procedure SIRegister_unlfit(CL: TPSPPascalCompiler);
7607:   begin
7608:     Procedure SetOptAlgo( Algo : TOptAlgo)
7609:     procedure SetOptAlgo(Algo : TOptAlgo);
7610:   { -----
7611:     Sets the optimization algorithm according to Algo, which must be
7612:     NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ
7613:   }
7614:   Function GetOptAlgo : TOptAlgo
7615:   Procedure SetMaxParam( N : Byte)
7616:   Function GetMaxParam : Byte
7617:   Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7618:   Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7619:   Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7620:   Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter :
    Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7621:   Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub:Integer;
    MaxIter:Integer;Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7622:   Procedure SetMCFile( FileName : String)
7623:   Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7624:   Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
    LastPar:Integer;V:TMatrix);
7625: end;
7626:
7627: (*-----*)
7628: procedure SIRegister_usimplex(CL: TPSPPascalCompiler);
7629: begin
7630:   Procedure SaveSimplex( FileName : string)
7631:   Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7632: end;
7633: (*-----*)
7634: procedure SIRegister_uregtest(CL: TPSPPascalCompiler);
7635: begin
7636:   Procedure RegTest(Y, Ycalc: TVector; LbY, UbY: Integer; V: TMatrix; LbV, UbV: Integer; var Test: TRegTest)
7637:   Procedure WRegTest(Y, Ycalc, S: TVector; LbY, UbY: Integer; V: TMatrix; LbV, UbV: Integer; var Test: TRegTest);
7638: end;
7639:
7640: procedure SIRegister_ustrings(CL: TPSPPascalCompiler);
7641: begin
7642:   Function LTrim( S : String) : String
7643:   Function RTrim( S : String) : String
7644:   Function uTrim( S : String) : String
7645:   Function StrChar( N : Byte; C : Char) : String
7646:   Function RFill( S : String; L : Byte) : String
7647:   Function LFill( S : String; L : Byte) : String
7648:   Function CFill( S : String; L : Byte) : String
7649:   Function Replace( S : String; C1, C2 : Char) : String
7650:   Function Extract( S : String; var Index : Byte; Delim : Char) : String
7651:   Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7652:   Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7653:   Function FloatStr( X : Float) : String
7654:   Function IntStr( N : LongInt) : String
7655:   Function uCompStr( Z : Complex) : String
7656: end;
7657:
7658: procedure SIRegister_uhyper(CL: TPSPPascalCompiler);
7659: begin
7660:   Function uSinh( X : Float ) : Float
7661:   Function uCosh( X : Float ) : Float
7662:   Function uTanh( X : Float ) : Float
7663:   Function uArcSinh( X : Float ) : Float
7664:   Function uArcCosh( X : Float ) : Float
7665:   Function ArcTanh( X : Float ) : Float
7666:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7667: end;
7668:
7669: procedure SIRegister_urandom(CL: TPSPPascalCompiler);
7670: begin
7671:   type RNG_Type =
7672:   (RNG_MWC,      { Multiply-With-Carry }
7673:    RNG_MT,       { Mersenne Twister }
7674:    RNG_UVAG);   { Universal Virtual Array Generator }
7675:   Procedure SetRNG( RNG : RNG_Type)
7676:   Procedure InitGen( Seed : RNG_IntType)
7677:   Procedure SRand( Seed : RNG_IntType)

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7678: Function IRanGen : RNG_IntType
7679: Function IRanGen31 : RNG_IntType
7680: Function RanGen1 : Float
7681: Function RanGen2 : Float
7682: Function RanGen3 : Float
7683: Function RanGen53 : Float
7684: end;
7685:
7686: // Optimization by Simulated Annealing
7687: procedure SIRegister_usimann(CL: TPSPascalCompiler);
7688: begin
7689: Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7690: Procedure SA_CreateLogFile( FileName : String)
7691: Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7692: end;
7693:
7694: procedure SIRegister_urantuvg(CL: TPSPascalCompiler);
7695: begin
7696: Procedure InitUVAGbyString( KeyPhrase : string)
7697: Procedure InitUVAG( Seed : RNG_IntType)
7698: Function IRanUVAG : RNG_IntType
7699: end;
7700:
7701: procedure SIRegister_ugenalg(CL: TPSPascalCompiler);
7702: begin
7703: Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7704: Procedure GA_CreateLogFile( LogFileName : String)
7705: Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7706: end;
7707:
7708: TVector', 'array of Float
7709: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7710: begin
7711: Procedure QSort( X : TVector; Lb, Ub : Integer)
7712: Procedure DQSort( X : TVector; Lb, Ub : Integer)
7713: end;
7714:
7715: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7716: begin
7717: Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7718: Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7719: end;
7720:
7721: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7722: begin
7723: FT_Result', 'Integer
7724: //TDWordptr', '^DWord // will not work
7725: TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor'
7726: d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PChar'
7727: r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7728: ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7729: yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7730: te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7731: ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7732: erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7733: Current : Byte; BISHighCurrent : Byte; IFAISFifo : Byte; IFAISFifoTar : By'
7734: te; IFAISFastSer : Byte; AIsVCP : Byte; IFBISFifo : Byte; IFBISFifoTar : B'
7735: yte; IFBISFastSer : Byte; BISVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7736: Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I'
7737: nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7738: ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 '
7739: : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsvCP : B'
7740: yte; end
7741: end;
7742:
7743:
7744: //***** PaintFX*****
7745: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7746: begin
7747: //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7748: with AddClassN(FindClass('TComponent'),'TJvPaintFX') do begin
7749: Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7750: Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7751: Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7752: Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7753: Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7754: Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7755: Procedure Turn( Src, Dst : TBitmap)
7756: Procedure TurnRight( Src, Dst : TBitmap)
7757: Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7758: Procedure TexturizeFile( const Dst : TBitmap; Amount : Integer)
7759: Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7760: Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7761: Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7762: Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7763: Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7764: Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7765: Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7766: Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)

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

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7856: TeeMaxLegendColumns', 'LongInt'( 2 );
7857: TeeDefaultLegendSymbolWidth', 'LongInt'( 20 );
7858: TeeTitleFootDistance, LongInt( 5 );
7859: SIRegister_TCustomChartWall(CL);
7860: SIRegister_TChartWall(CL);
7861: SIRegister_TChartLegendGradient(CL);
7862: TLegendStyle', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7863: TLegendAlignment', '( laLeft, laRight, laTop, laBottom )
7864: FindClass('TOBJECT'), 'LegendException
7865: TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7866: + 'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7867: FindClass('TOBJECT'), 'TCustomChartLegend
7868: TLegendSymbolSize', '( lcsPercent, lcsPixels )
7869: TLegendSymbolPosition', '( spLeft, spRight )
7870: TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7871: TSymbolCalcHeight', 'Function : Integer
7872: SIRegister_TLegendSymbol(CL);
7873: SIRegister_TTeeCustomShapePosition(CL);
7874: TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7875: SIRegister_TLegendTitle(CL);
7876: SIRegister_TLegendItem(CL);
7877: SIRegister_TLegendItems(CL);
7878: TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7879: FindClass('TOBJECT'), 'TCustomChart
7880: SIRegister_TCustomChartLegend(CL);
7881: SIRegister_TChartLegend(CL);
7882: SIRegister_TChartTitle(CL);
7883: SIRegister_TChartFootTitle(CL);
7884: TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7885: + 'eButton; Shift : TShiftState; X, Y : Integer)
7886: TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7887: + 'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7888: TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7889: + TChartSeries; ValueIndex : Integer; Button: TMouseButton; Shift:TShiftState;X,Y:Integer)
7890: TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATile : '
7891: + 'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7892: TOnGetLegendPos', 'Procedure ( Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7893: TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7894: TaxissavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7895: + 'toMax: Boolean; Min : Double; Max : Double; end
7896: TA11AxisSavedScales', 'array of TAXissavedScales
7897: SIRegister_TChartBackWall(CL);
7898: SIRegister_TChartRightWall(CL);
7899: SIRegister_TChartBottomWall(CL);
7900: SIRegister_TChartLeftWall(CL);
7901: SIRegister_TChartWalls(CL);
7902: TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);'
7903: SIRegister_TCustomChart(CL);
7904: SIRegister_TChart(CL);
7905: SIRegister_TTeeSeriesTypes(CL);
7906: SIRegister_TTeeToolTypes(CL);
7907: SIRegister_TTeeDragObject(CL);
7908: SIRegister_TColorPalettes(CL);
7909: Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
AGalleryPage:PString;ANumGallerySeries:Integer;
7910: Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADscription : PString);
7911: Procedure RegisterTeeFunction(AFuncClass:TTeeFunctionClass;ADescription : PString,
AGalleryPage:PString;ANumGallerySeries: Int;
7912: Procedure RegisterTeeBasicFunction(AFunctionClass : TTeeFunctionClass; ADscription : PString)
7913: Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass;AFunctionClass:TTeeFunctionClass;
ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7914: Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7915: Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7916: Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7917: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass) : TTeeFunction
7918: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
AFunctionClass : TTeeFunctionClass) : TChartSeries
7919: Function CloneChartSeries( ASeries : TChartSeries) : TChartSeries;
7920: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel) : TChartSeries;
7921: Function CloneChartSeries2(TChartSeries:AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7922: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7923: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass) : TChartSeries
7924: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7925: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7926: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7927: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7928: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7929: Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
R:TRect;ReferenceChart:TCustomChart);
7930: SIRegister_TChartTheme(CL);
7931: //TChartThemeClass', 'class of TChartTheme
7932: //TCanvasClass', 'class of TCanvas3D
7933: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7934: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7935: Procedure FillSeriesItems( Items : TStrings; AList : TCustomSeriesList; UseTitles : Boolean)
7936: Procedure ShowMessageUser( const S : String)
7937: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7938: Function HasLabels( ASeries : TChartSeries ) : Boolean
7939: Function HasColors( ASeries : TChartSeries ) : Boolean

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7940: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7941: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer)
7942: end;
7943:
7944:
7945: procedure SIRegister_TeeProcs(CL: TPSPascalCompiler);
7946: begin
7947: // 'TeeFormBorderStyle', 'bsNone';
7948: SIRegister_TMetafile(CL);
7949: 'TeeDefVerticalMargin','LongInt'( 4 );
7950: 'TeeDefHorizMargin','LongInt'( 3 );
7951: 'crTeeHand','LongInt'( TCursor( 2020 ) );
7952: 'TeeMsg_TeeHand','String 'crTeeHand
7953: 'TeeNormalPrintDetail','LongInt'( 0 );
7954: 'TeeHighPrintDetail','LongInt'( - 100 );
7955: 'TeeDefault_PrintMargin','LongInt'( 15 );
7956: 'MaxDefaultColors','LongInt'( 19 );
7957: 'TeeTabDelimiter','Char #9';
7958: 'TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7959: '+nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7960: +'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7961: +'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7962: +'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7963: +'ourMonths, dtSixMonths, dtOneYear, dtNone )'
7964: SIRegister_TCustomPanelNoCaption(CL);
7965: FindClass('TOBJECT'), 'TCustomTeePanel
7966: SIRegister_TZoomPanning(CL);
7967: SIRegister_TTeeEvent(CL);
7968: //SIRegister_TTeeEventListeners(CL);
7969: TTeeMouseEventKind', '( meDown, meUp, meMove )'
7970: SIRegister_TTeeMouseEvent(CL);
7971: SIRegister_TCustomTeePanel(CL);
7972: // 'TChartGradient', 'TTeeGradient
7973: // 'TChartGradientClass', 'class of TChartGradient
7974: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )'
7975: SIRegister_TTeeZoomPen(CL);
7976: SIRegister_TTeeZoomBrush(CL);
7977: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )'
7978: SIRegister_TTeeZoom(CL);
7979: FindClass('TOBJECT'), 'TCustomTeePanelExtended
7980: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )'
7981: SIRegister_TBackImage(CL);
7982: SIRegister_TCustomTeePanelExtended(CL);
7983: // 'TChartBrushClass', 'class of TChartBrush
7984: SIRegister_TTeeCustomShapeBrushPen(CL);
7985: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )'
7986: TTextFormat , '( ttfNormal, ttfHtml )'
7987: SIRegister_TTeeCustomShape(CL);
7988: SIRegister_TTeeShape(CL);
7989: SIRegister_TTeeExportData(CL);
7990: Function TeeStr( const Num : Integer ) : String
7991: Function DateTimeDefaultFormat( const AStep : Double ) : String
7992: Function TEEDaysInMonth( Year, Month : Word ) : Word
7993: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep
7994: Function NextDateTimeStep( const AStep : Double ) : Double
7995: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7996: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7997: Function PointInLine2( const P,FromPoint,ToPoint:TPoint;const TolerancePixels:Integer):Boolean;
7998: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer ):Boolean;
7999: Function PointInLineTolerance( const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer ):Boolean;
8000: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean
8001: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
8002: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
8003: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;
8004: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
8005: Function PointInEllipse1( const P: TPoint;Left,Top,Right, Bottom : Integer ) : Boolean;
8006: Function DelphiToLocalFormat( const Format : String ) : String
8007: Function LocalToDelphiFormat( const Format : String ) : String
8008: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
8009: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
8010: Procedure TeeDateTimeIncrement(IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
8011: TTeeSortCompare', 'Function ( a, b : Integer ) : Integer
8012: TTeeSortSwap', 'Procedure ( a, b : Integer )
8013: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TTEESortCompare;SwapFunc:TTEESortSwap);
8014: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string
8015: Function TeeExtractField( St : String; Index : Integer ) : String;
8016: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
8017: Function TeeNumFields( St : String ) : Integer;
8018: Function TeeNumFields1( const St, Separator : String ) : Integer;
8019: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap)
8020: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String )
8021: // 'TColorArray', 'array of TColor
8022: Function GetDefaultColor( const Index : Integer ) : TColor
8023: Procedure SetDefaultColorPalette;
8024: Procedure SetDefaultColorPalette1( const Palette : array of TColor );
8025: 'TeeCheckBoxSize','LongInt'( 11 );
8026: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
8027: Function TEEStrToFloatDef( const S : string; const Default : Extended ) : Extended

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8028: Function TryStrToFloat( const S : String; var Value : Double) : Boolean
8029: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double) : Boolean
8030: Procedure TeeTranslateControl( AControl : TControl);
8031: Procedure TeeTranslateControl( AControl : TControl; const ExcludeChilds : array of TControl);
8032: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char) : String
8033: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints)
8034: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean) : TBitmap
8035: //Procedure DrawBevel(Canvas:TeeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
8036: //Function ScreenRatio( ACanvas : TCanvas3D) : Double
8037: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean) : Boolean
8038: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean)
8039: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer) : Integer
8040: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer)
8041: Function TeeReadStringOption( const AKey, DefaultValue : String) : String
8042: Procedure TeeSaveStringOption( const AKey, Value : String)
8043: Function TeeDefaultXMLEncoding : String
8044: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean)
8045: TeeWindowHandle', 'Integer
8046: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String)
8047: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String)
8048: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String) : TSize
8049: end;
8050:
8051:
8052: using mXBDEUtils
8053: ****
8054: Procedure SetAlias( aAlias, aDirectory : String)
8055: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
8056: Function GetFileVersionNumber( const FileName : String) : TVersionNo
8057: Procedure SetBDE( aPath, aNode, aValue : String)
8058: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
8059: Function GetSystemDirectory( lpBuffer : string; uSize : UINT) : UINT
8060: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT) : UINT
8061: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string) : DWORD
8062: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string) : DWORD
8063: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
8064:
8065:
8066: procedure SIRegister_cDateTime(CL: TPSPascalCompiler);
8067: begin
8068: AddClassN(FindClass('TOBJECT'), 'EDateTime'
8069: Function DatePart( const D : TDateTime) : Integer
8070: Function TimePart( const D : TDateTime) : Double
8071: Function Century( const D : TDateTime) : Word
8072: Function Year( const D : TDateTime) : Word
8073: Function Month( const D : TDateTime) : Word
8074: Function Day( const D : TDateTime) : Word
8075: Function Hour( const D : TDateTime) : Word
8076: Function Minute( const D : TDateTime) : Word
8077: Function Second( const D : TDateTime) : Word
8078: Function Millisecond( const D : TDateTime) : Word
8079: ('OneDay','Extended').setExtended( 1.0);
8080: ('OneHour','Extended').SetExtended( OneDay / 24);
8081: ('OneMinute','Extended').SetExtended( OneHour / 60);
8082: ('OneSecond','Extended').SetExtended( OneMinute / 60);
8083: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000);
8084: ('OneWeek','Extended').SetExtended( OneDay * 7);
8085: ('HoursPerDay','Extended').SetExtended( 24);
8086: ('MinutesPerHour','Extended').SetExtended( 60);
8087: ('SecondsPerMinute','Extended').SetExtended( 60);
8088: Procedure SetYear( var D : TDateTime; const Year : Word)
8089: Procedure SetMonth( var D : TDateTime; const Month : Word)
8090: Procedure SetDay( var D : TDateTime; const Day : Word)
8091: Procedure SetHour( var D : TDateTime; const Hour : Word)
8092: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8093: Procedure SetSecond( var D : TDateTime; const Second : Word)
8094: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8095: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8096: Function IsEqual( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8097: Function IsEqual( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8098: Function IsAM( const D : TDateTime) : Boolean
8099: Function IsPM( const D : TDateTime) : Boolean
8100: Function IsMidnight( const D : TDateTime) : Boolean
8101: Function IsNoon( const D : TDateTime) : Boolean
8102: Function IsSunday( const D : TDateTime) : Boolean
8103: Function IsMonday( const D : TDateTime) : Boolean
8104: Function IsTuesday( const D : TDateTime) : Boolean
8105: Function IsWednesday( const D : TDateTime) : Boolean
8106: Function IsThursday( const D : TDateTime) : Boolean
8107: Function IsFriday( const D : TDateTime) : Boolean
8108: Function IsSaturday( const D : TDateTime) : Boolean
8109: Function IsWeekend( const D : TDateTime) : Boolean
8110: Function Noon( const D : TDateTime) : TDateTime
8111: Function Midnight( const D : TDateTime) : TDateTime
8112: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8113: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8114: Function NextWorkday( const D : TDateTime) : TDateTime
8115: Function PreviousWorkday( const D : TDateTime) : TDateTime

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

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

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8293: Function RandomUniform1( const N : Integer ) : Integer;
8294: Function RandomBoolean : Boolean
8295: Function RandomByte : Byte
8296: Function RandomByteNonZero : Byte
8297: Function RandomWord : Word
8298: Function RandomInt64 : Int64;
8299: Function RandomInt641( const N : Int64 ) : Int64;
8300: Function RandomHex( const Digits : Integer ) : String
8301: Function RandomFloat : Extended
8302: Function RandomAlphaStr( const Length : Integer ) : AnsiString
8303: Function RandomPseudoWord( const Length : Integer ) : AnsiString
8304: Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8305: Function mwcRandomLongWord : LongWord
8306: Function urnRandomLongWord : LongWord
8307: Function moaRandomFloat : Extended
8308: Function mwcRandomFloat : Extended
8309: Function RandomNormalF : Extended
8310: Procedure SelfTestCRandom
8311: end;
8312:
8313: procedure SIRegister_SynEditMiscProcs(CL: TPSPPascalCompiler);
8314: begin
8315: // PIntArray', '^TIntArray // will not work
8316: Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8317: TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8318: Function synMax( x, y : integer ) : integer
8319: Function synMin( x, y : integer ) : integer
8320: Function synMinMax( x, mi, ma : integer ) : integer
8321: Procedure synSwapInt( var l, r : integer )
8322: Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8323: Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8324: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8325: Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8326: Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8327: Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8328: Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8329: Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8330: Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8331: Function synCharIndex2Caretpos( Index, TabWidth : integer; const Line : string ) : integer
8332: Function synCaretpos2CharIndex( TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8333: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8334: Function synStrRScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8335: TStringType, ('stNone, stHalfNumAlpha, stWideSymbol, stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )
8336: + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida ')
8337: ('C3_NONSPACING','LongInt'( 1 );
8338: 'C3_DIACRITIC','LongInt'( 2 );
8339: 'C3_VOWELMARK','LongInt'( 4 );
8340: ('C3_SYMBOL','LongInt'( 8 );
8341: ('C3_KATAKANA','LongWord( $0010 );
8342: ('C3_HIRAGANA','LongWord( $0020 );
8343: ('C3_HALFWIDTH','LongWord( $0040 );
8344: ('C3_FULLWIDTH','LongWord( $0080 );
8345: ('C3_IDEOGRAPH','LongWord( $0100 );
8346: ('C3_KASHIDA','LongWord( $0200 );
8347: ('C3_LEXICAL','LongWord( $0400 );
8348: ('C3_ALPHA','LongWord( $8000 );
8349: ('C3_NOTAPPLICABLE','LongInt'( 0 );
8350: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8351: Function synRStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8352: Function synIsStringType( Value : Word ) : TStringType
8353: Function synGetEOL( Line : PChar ) : PChar
8354: Function synEncodeString( s : string ) : string
8355: Function synDecodeString( s : string ) : string
8356: Procedure synFreeAndNil( var Obj: TObject )
8357: Procedure synAssert( Expr : Boolean )
8358: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8359: TReplaceFlag', ('rfReplaceAll, rfIgnoreCase )
8360: TReplaceFlags', 'set of TReplaceFlag )
8361: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8362: Function synGetRValue( RGBValue : TColor ) : byte
8363: Function synGetGValue( RGBValue : TColor ) : byte
8364: Function synGetBValue( RGBValue : TColor ) : byte
8365: Function synRGB( r, g, b : Byte) : Cardinal
8366: // THighlighterAttriProc', 'Function( Highlighter : TSynCustomHigh'
8367: // +'lighter; Attr:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8368: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8369: HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer ) : Boolean
8370: Procedure synCalcFCS( const ABuf, ABufSize : Cardinal ) : Word
8371: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
     AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8372: end;
8373: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD
8374: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8375: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8376:
8377: procedure SIRegister_synthutil(CL: TPSPPascalCompiler);
8378: begin
8379: Function STimezoneBias : integer

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8380: Function TimeZone : string
8381: Function Rfc822DateTime( t : TDateTime ) : string
8382: Function CDateTime( t : TDateTime ) : string
8383: Function SimpleDateTime( t : TDateTime ) : string
8384: Function AnsiCDatetime( t : TDateTime ) : string
8385: Function GetMonthNumber( Value : String ) : integer
8386: Function GetTimeFromStr( Value : string ) : TDateTime
8387: Function GetDateMDYFromStr( Value : string ) : TDateTime
8388: Function DecodeRfcDateTime( Value : string ) : TDateTime
8389: Function GetUTTIme : TDateTime
8390: Function SetUTTIme( Newdt : TDateTime ) : Boolean
8391: Function SGetTick : LongWord
8392: Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8393: Function CodeInt( Value : Word ) : Ansistring
8394: Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8395: Function CodeLongInt( Value : LongInt ) : Ansistring
8396: Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8397: Function DumpStr( const Buffer : Ansistring ) : string
8398: Function DumpExStr( const Buffer : Ansistring ) : string
8399: Procedure Dump( const Buffer : Ansistring; DumpFile : string )
8400: Procedure DumpEx( const Buffer : Ansistring; DumpFile : string )
8401: Function TrimSPLeft( const S : string ) : string
8402: Function TrimSPRight( const S : string ) : string
8403: Function TrimSP( const S : string ) : string
8404: Function SeparateLeft( const Value, Delimiter : string ) : string
8405: Function SeparateRight( const Value, Delimiter : string ) : string
8406: Function SGetParameter( const Value, Parameter : string ) : string
8407: Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8408: Procedure ParseParameters( Value : string; const Parameters : TStrings )
8409: Function IndexByBegin( Value : string; const List : TStrings ) : integer
8410: Function GetEmailAddr( const Value : string ) : string
8411: Function GetEmailDesc( Value : string ) : string
8412: Function CStrToHex( const Value : Ansistring ) : string
8413: Function CIntToBin( Value : Integer; Digits : Byte ) : string
8414: Function CBinToInt( const Value : string ) : Integer
8415: Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string ):string
8416: Function CReplaceString( Value, Search, Replace : Ansistring ) : Ansistring
8417: Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8418: Function CRPos( const Sub, Value : String ) : Integer
8419: Function FetchBin( var Value : string; const Delimiter : string ) : string
8420: Function CFetch( var Value : string; const Delimiter : string ) : string
8421: Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8422: Function IsBinaryString( const Value : Ansistring ) : Boolean
8423: Function PosCRLF( const Value : Ansistring; var Terminator : Ansistring ) : integer
8424: Procedure StringsTrim( const value : TStrings )
8425: Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8426: Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8427: Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8428: Function CCountOfChar( const Value : string; aChr : char ) : integer
8429: Function UnquoteStr( const Value : string; Quote : Char ) : string
8430: Function QuoteStr( const Value : string; Quote : Char ) : string
8431: Procedure HeadersToList( const Value : TStrings )
8432: Procedure ListToHeaders( const Value : TStrings )
8433: Function SwapBytes( Value : integer ) : integer
8434: Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8435: Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8436: Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8437: Function CPadString( const Value : Ansistring; len : integer; Pad : AnsiChar ) : AnsiString
8438: Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8439: Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8440: end;
8441:
8442: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8443: begin
8444:   ('CrcBufSize', 'LongInt'( 2048 );
8445:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8446:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8447:   Function Adler32OfFile( FileName : Ansistring ) : LongInt
8448:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8449:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8450:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8451:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8452:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8453:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8454:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8455:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8456:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8457:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8458:   Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8459:   Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
8460: end;
8461:
8462: procedure SIRegister_ComObj(CL: TPSPascalCompiler);
8463: begin
8464:   function CreateOleObject(const ClassName: String): IDispatch;
8465:   function GetActiveOleObject(const ClassName: String): IDispatch;
8466:   function ProgIDToClassID(const ProgID: string): TGUID;
8467:   function ClassIDToProgID(const ClassID: TGUID): string;
8468:   function CreateClassID: string;

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8469: function CreateGUIDString: string;
8470: function CreateGUIDID: string;
8471: procedure OleError(ErrorCode: longint);
8472: procedure OleCheck(Result: HResult);
8473: end;
8474:
8475: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8476: Function xGetActiveOleObject( const ClassName : string ) : Variant
8477: //Function Dl1GetClassObject( const CLSID : TCLSID; const IID : TIID; var Obj ) : HResult
8478: Function DllCanUnloadNow : HResult
8479: Function DllRegisterServer : HResult
8480: Function DllUnregisterServer : HResult
8481: Function VarFromInterface( Unknown : IUnknown ) : Variant
8482: Function VarToInterface( const V : Variant ) : IDispatch
8483: Function VarToAutoObject( const V : Variant ) : TAutoObject
8484: //Procedure
DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8485: //Procedure DispInvokeError( Status : HResult; const ExcepInfo : TExcepInfo )
8486: Procedure OleError( ErrorCode : HResult )
8487: Procedure OleCheck( Result : HResult )
8488: Function StringToClassID( const S : string ) : TCLSID
8489: Function ClassIDToString( const ClassID : TCLSID ) : string
8490: Function xProgIDToClassID( const ProgID : string ) : TCLSID
8491: Function xClassIDToProgID( const ClassID : TCLSID ) : string
8492: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8493: Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8494: Function xGUIDToString( const ClassID : TGUID ) : string
8495: Function xStringToGUID( const S : string ) : TGUID
8496: Function xGetModuleName( Module : HMODULE ) : string
8497: Function xAcquireExceptionObject : TObject
8498: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8499: Function xUtf8Encode( const WS : WideString ) : UTF8String
8500: Function xUtf8Decode( const S : UTF8String ) : WideString
8501: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8502: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8503: Function XRTLHandleCOMException : HResult
8504: Procedure XRTLCheckArgument( Flag : Boolean )
8505: //Procedure XRTLCheckOutArgument( out Arg )
8506: Procedure XRTLInterfaceConnect( const Source:IUnknown; const IID:TIID; const Sink:IUnknown; var Connection:Longint );
8507: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID; var Connection : Longint )
8508: Function XRTLRegisterActiveObject( const Unk:IUnknown; const ClassID:TCLSID; const Flags:DWORD; var RegisterCookie:Int ) : HResult
8509: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer ) : HResult
8510: //Function XRTLGetActiveObject( const ClassID : TCLSID; const IID : TIID; out Obj ) : HResult
8511: Procedure XRTLEnumActiveObjects( Strings : TStrings )
8512: function XRTLDefaultCategoryManager: IUnknown;
8513: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil) : Boolean;
8514: // ICatRegister helper functions
8515: function XRTLCREATEComponentCategory(CatID: TGUID; const CatDescription: WideString;
8516:                                         LocaleID: TICLID = LOCALE_USER_DEFAULT;
8517:                                         const CategoryManager: IUnknown = nil) : HResult;
8518: function XRTLRemoveComponentCategory(CatID: TGUID; const CatDescription: WideString;
8519:                                         LocaleID: TICLID = LOCALE_USER_DEFAULT;
8520:                                         const CategoryManager: IUnknown = nil) : HResult;
8521: function XRTLRegisterCLSIDInCategory(const ClassID: TGUID; const CatID: TGUID;
8522:                                         const CategoryManager: IUnknown = nil) : HResult;
8523: function XRTLUnRegisterCLSIDInCategory(const ClassID: TGUID; const CatID: TGUID;
8524:                                         const CategoryManager: IUnknown = nil) : HResult;
8525: // ICatInformation helper functions
8526: function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
8527:                                         LocaleID: TICLID = LOCALE_USER_DEFAULT;
8528:                                         const CategoryManager: IUnknown = nil) : HResult;
8529: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TICLID = LOCALE_USER_DEFAULT;
8530:                                         const CategoryManager: IUnknown = nil) : HResult;
8531: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
8532:                                         const CategoryManager: IUnknown = nil) : HResult;
8533: function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
8534:                                         const CategoryManager: IUnknown = nil) : HResult;
8535: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ');
8536:                                         const ADelete: Boolean = True) : WideString;
8537: function XRTLRPos(const ASub, AIn: WideString; AStart: Integer = -1) : Integer;
8538: Function XRTLGetVariantAsString( const Value : Variant ) : string
8539: Function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8540: Function XRTLGetTimeZones : TXRTLTimeZones
8541: Function XFileTimeToDate( FileTime : TFileTime ) : TDateTime
8542: Function Date( Date : TDateTime ) : TFileTime
8543: Function GMTNow : TDateTime
8544: Function GMTToLocalTime( GMT : TDateTime ) : TDateTime
8545: Function LocalTimeToGMT( LocalTime : TDateTime ) : TDateTime
8546: Procedure XRTLNotImplemented
8547: Procedure XRTLRaiseError( E : Exception )
8548: Procedure XRTLRaise( E : Exception );
8549: Procedure XRaise( E : Exception );
8550: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string )
8551:
8552:
8553: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8554: begin

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8555:  SIRegister_IXRTLValue(CL);
8556:  SIRegister_TXRTLValue(CL);
8557:  //AddTypeS('PXRTLValueArray', '^TXRTLValueArray // will not work
8558:  AddTypes('TXRTLValueArray', 'array of IXRTLValue
8559:  Function XRTLValue( const AValue : Cardinal ) : IXRTLValue;
8560:  Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal ) : Cardinal;
8561:  Function XRTLGetAsCardinal( const IValue : IXRTLValue ) : Cardinal;
8562:  Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal ) : Cardinal;
8563:  Function XRTLValue1( const AValue : Integer ) : IXRTLValue;
8564:  Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer ) : Integer;
8565:  Function XRTLGetAsInteger( const IValue : IXRTLValue ) : Integer;
8566:  Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer;
8567:  Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8568:  Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8569:  Function XRTLGetAsInt64( const IValue : IXRTLValue ) : Int64;
8570:  Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64;
8571:  Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8572:  Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8573:  Function XRTLGetAssingle( const IValue : IXRTLValue ) : Single;
8574:  Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single;
8575:  Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8576:  Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8577:  Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double;
8578:  Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double;
8579:  Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8580:  Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8581:  Function XRTLGetAsExtended( const IValue : IXRTLValue ) : Extended;
8582:  Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended;
8583:  Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8584:  Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8585:  Function XRTLGetAsInterface( const IValue : IXRTLValue ) : IInterface;
8586:  //Function XRTLGetAsInterface( const IValue : IXRTLValue; out Obj ) : IInterface;
8587:  Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8588:  Function XRTLValue7( const AValue : WideString ) : IXRTLValue;
8589:  Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8590:  Function XRTLGetAsWideString( const IValue : IXRTLValue ) : WideString;
8591:  Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString;
8592:  Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8593:  Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8594:  Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8595:  Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
     ADetachOwnership : Boolean ) : TObject;
8596:  //Function XRTLValue9( const AValue : _Pointer ) : IXRTLValue;
8597:  //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : _Pointer ) : _Pointer;
8598:  //Function XRTLGetAsPointer( const IValue : IXRTLValue ) : _Pointer;
8599:  //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer ) : _Pointer;
8600:  Function XRTLValueV( const AValue : Variant ) : IXRTLValue;
8601:  Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8602:  Function XRTLGetAsVariant( const IValue : IXRTLValue ) : Variant;
8603:  Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant;
8604:  Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8605:  Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8606:  Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency;
8607:  Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency;
8608:  Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8609:  Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8610:  Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp;
8611:  Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp;
8612:  Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8613:  Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8614:  Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass;
8615:  Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass;
8616:  Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8617:  Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8618:  Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID;
8619:  Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID;
8620:  Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8621:  Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8622:  Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean;
8623:  Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean;
8624: end;
8625:
8626: //*****unit uPSI_GR32;*****
8627:
8628: Function Color32( WinColor : TColor ) : TColor32;
8629: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8630: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8631: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32;
8632: Function WinColor( Color32 : TColor32 ) : TColor;
8633: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32;
8634: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte );
8635: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte );
8636: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components;
8637: Function RedComponent( Color32 : TColor32 ) : Integer;
8638: Function GreenComponent( Color32 : TColor32 ) : Integer;
8639: Function BlueComponent( Color32 : TColor32 ) : Integer;
8640: Function AlphaComponent( Color32 : TColor32 ) : Integer;
8641: Function Intensity( Color32 : TColor32 ) : Integer;
8642: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32;

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8643: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8644: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single);
8645: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;
8646: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8647: Function WinPalette( const P : TPalette32 ) : HPALETTE
8648: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8649: Function FloatPoint1( const P : TPoint ) : TFfloatPoint;
8650: Function FloatPoint2( const FXP : TFixedPoint ) : TFfloatPoint;
8651: Function FixedPoint( X, Y : Integer ) : TFfixedPoint;
8652: Function FixedPoint1( X, Y : Single ) : TFfixedPoint;
8653: Function FixedPoint2( const P : TPoint ) : TFfixedPoint;
8654: Function FixedPoint3( const FP : TFfloatPoint ) : TFfixedPoint;
8655: AddTypes('TRectRounding', '( rrClosest, rrOutside, rrInside )'
8656: Function MakeRect( const L, T, R, B : Integer ) : TRect;
8657: Function MakeRect1( const FR : TFfloatRect; Rounding : TRectRounding ) : TRect;
8658: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding ) : TRect;
8659: Function GFixedRect( const L, T, R, B : TFixed ) : TRect;
8660: Function FixedRect1( const ARect : TRect ) : TRect;
8661: Function FixedRect2( const FR : TFfloatRect ) : TRect;
8662: Function GFloatRect( const L, T, R, B : TFloat ) : TFfloatRect;
8663: Function FloatRect1( const ARect : TRect ) : TFfloatRect;
8664: Function FloatRect2( const FXR : TRect ) : TFfloatRect;
8665: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect ) : Boolean;
8666: Function IntersectRect( out Dst : TFfloatRect; const FR1, FR2 : TFfloatRect ) : Boolean;
8667: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
8668: Function UnionRect1( out Rect : TFfloatRect; const R1, R2 : TFfloatRect ) : Boolean;
8669: Function GEEqualRect( const R1, R2 : TRect ) : Boolean;
8670: Function EqualRect1( const R1, R2 : TFfloatRect ) : Boolean;
8671: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer );
8672: Procedure InflateRect1( var FR : TFfloatRect; Dx, Dy : TFloat );
8673: Procedure GOffsetRect( var R : TRect; Dx, Dy : Integer );
8674: Procedure OffsetRect1( var FR : TFfloatRect; Dx, Dy : TFloat );
8675: Function IsRectEmpty( const R : TRect ) : Boolean;
8676: Function IsRectEmpty1( const FR : TFfloatRect ) : Boolean;
8677: Function GPtInRect( const R : TRect; const P : TPoint ) : Boolean;
8678: Function PtInRect1( const R : TFfloatRect; const P : TPoint ) : Boolean;
8679: Function PtInRect2( const R : TRect; const P : TFfloatPoint ) : Boolean;
8680: Function PtInRect3( const R : TFfloatRect; const P : TFfloatPoint ) : Boolean;
8681: Function EqualRectSize( const R1, R2 : TRect ) : Boolean;
8682: Function EqualRectSize1( const R1, R2 : TFfloatRect ) : Boolean;
8683: Function MessageBeep( uType : UINT ) : BOOL
8684: Function ShowCursor( bShow : BOOL ) : Integer
8685: Function SetCursorPos( X, Y : Integer ) : BOOL
8686: Function SetCursor( hCursor : HICON ) : HCURSOR
8687: Function GetCursorPos( var lpPoint : TPoint ) : BOOL
8688: //Function ClipCursor( lpRect : PRect ) : BOOL
8689: Function GetClipCursor( var lpRect : TRect ) : BOOL
8690: Function GetCursor : HCURSOR
8691: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer ) : BOOL
8692: Function GetCaretBlinkTime : UINT
8693: Function SetCaretBlinkTime( uMSeconds : UINT ) : BOOL
8694: Function DestroyCaret : BOOL
8695: Function HideCaret( hWnd : HWND ) : BOOL
8696: Function ShowCaret( hWnd : HWND ) : BOOL
8697: Function SetCaretPos( X, Y : Integer ) : BOOL
8698: Function GetCaretPos( var lpPoint : TPoint ) : BOOL
8699: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8700: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8701: Function MapWindowPoints( hWndFrom, hWndTo : HWND; var lpPoints, cPoints : UINT ) : Integer
8702: Function WindowFromPoint( Point : TPoint ) : HWND
8703: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint ) : HWND
8704:
8705:
8706: procedure SIRegister_GR32_Math(CL: TPPSPascalCompiler);
8707: begin
8708:   Function FixedFloor( A : TFixed ) : Integer
8709:   Function FixedCeil( A : TFixed ) : Integer
8710:   Function FixedMul( A, B : TFixed ) : TFixed
8711:   Function FixedDiv( A, B : TFixed ) : TFixed
8712:   Function OneOver( Value : TFixed ) : TFixed
8713:   Function FixedRound( A : TFixed ) : Integer
8714:   Function FixedSqr( Value : TFixed ) : TFixed
8715:   Function FixedSqrtLP( Value : TFixed ) : TFixed
8716:   Function FixedSqrtHP( Value : TFixed ) : TFixed
8717:   Function FixedCombine( W, X, Y : TFixed ) : TFixed
8718:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8719:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8720:   Function GRHypot( const X, Y : TFloat ) : TFloat;
8721:   Function Hypot1( const X, Y : Integer ) : Integer;
8722:   Function FastSqrt( const Value : TFloat ) : TFloat
8723:   Function FastSqrtBab1( const Value : TFloat ) : TFloat
8724:   Function FastSqrtBab2( const Value : TFloat ) : TFloat
8725:   Function FastInvSqrt( const Value : Single ) : Single;
8726:   Function MulDiv( Multiplicand, Multiplier, Divisor : Integer ) : Integer
8727:   Function GRIsPowerOf2( Value : Integer ) : Boolean
8728:   Function PrevPowerOf2( Value : Integer ) : Integer
8729:   Function NextPowerOf2( Value : Integer ) : Integer
8730:   Function Average( A, B : Integer ) : Integer
8731:   Function GRSign( Value : Integer ) : Integer

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8732: Function FloatMod( x, y : Double ) : Double
8733: end;
8734:
8735: procedure SIRegister_GR32_LowLevel(CL: TPSCompiler);
8736: begin
8737:   Function Clamp( const Value : Integer ) : Integer;
8738:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword )
8739:   Function StackAlloc( Size : Integer ) : Pointer
8740:   Procedure StackFree( P : Pointer )
8741:   Procedure Swap( var A, B : Pointer );
8742:   Procedure Swap1( var A, B : Integer );
8743:   Procedure Swap2( var A, B : TFixed );
8744:   Procedure Swap3( var A, B : TColor32 );
8745:   Procedure TestSwap( var A, B : Integer );
8746:   Procedure TestSwap1( var A, B : TFixed );
8747:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8748:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8749:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8750:   Function Constrain1( const Value, Lo, Hi : Single ) : Single;
8751:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer ) : Integer
8752:   Function GRMin( const A, B, C : Integer ) : Integer;
8753:   Function GRMax( const A, B, C : Integer ) : Integer;
8754:   Function Clamp( Value, Max : Integer ) : Integer;
8755:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8756:   Function Wrap( Value, Max : Integer ) : Integer;
8757:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8758:   Function Wrap3( Value, Max : Single ) : Single;;
8759:   Function WrapPow2( Value, Max : Integer ) : Integer;
8760:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8761:   Function Mirror( Value, Max : Integer ) : Integer;
8762:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8763:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8764:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8765:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8766:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8767:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8768:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8769:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8770:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8771:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8772:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ):TWrapProcEx;
8773:   Function Div255( Value : Cardinal ) : Cardinal;
8774:   Function SAR_4( Value : Integer ) : Integer;
8775:   Function SAR_8( Value : Integer ) : Integer;
8776:   Function SAR_9( Value : Integer ) : Integer;
8777:   Function SAR_11( Value : Integer ) : Integer;
8778:   Function SAR_12( Value : Integer ) : Integer;
8779:   Function SAR_13( Value : Integer ) : Integer;
8780:   Function SAR_14( Value : Integer ) : Integer;
8781:   Function SAR_15( Value : Integer ) : Integer;
8782:   Function SAR_16( Value : Integer ) : Integer;
8783:   Function ColorSwap( WinColor : TColor ) : TColor32;
8784: end;
8785:
8786: procedure SIRegister_GR32_Filters(CL: TPSCompiler);
8787: begin
8788:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )');
8789:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8790:   Procedure CopyComponents1(Dst:TCustomBmap32;DstX,DstY:Int32;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp);
8791:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 );
8792:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean );
8793:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 );
8794:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8795:   Procedure InvertRGB( Dst, Src : TCustomBitmap32 );
8796:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean );
8797:   Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32 );
8798:   Function CreateBitmask( Components : TColor32Components ) : TColor32;
8799:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect; Bitmask : TColor32; LogicalOperator : TLogicalOperator );
8800:   Procedure ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8801:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean );
8802: end;
8803:
8804:
8805: procedure SIRegister_JclNTFS(CL: TPSCompiler);
8806: begin
8807:   AddClassN(FindClass('TOBJECT'), 'EJclNtfsError');
8808:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
8809:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8810:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8811:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean;
8812:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState );
8813:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState );
8814:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State: TFileCompressionState );
8815:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState:Recursive:Boolean;
8816:   //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc';
8817:   //+*tedRangeBuffer; MoreData : Boolean; end

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8818: Function NtfsSetSparse( const FileName : string ) : Boolean
8819: Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean
8820: Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean
8821: //Function NtfsQueryAllocRanges(const FileName:string,Offset,Count:Int64,var
Ranges:TNtfsAllocRanges):Boolean;
8822: //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
Index:Integer):TFileAllocatedRangeBuffer
8823: Function NtfsSparseStreamsSupported( const Volume : string ) : Boolean
8824: Function NtfsGetSparse( const FileName : string ) : Boolean
8825: Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean
8826: Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean
8827: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8828: Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean
8829: Function NtfsReparsePointsSupported( const Volume : string ) : Boolean
8830: Function NtfsFileHasReparsePoint( const Path : string ) : Boolean
8831: Function NtfsIsFolderMountPoint( const Path : string ) : Boolean
8832: Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean
8833: Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean
8834: AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )
8835: Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8836: Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8837: Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8838: Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8839: Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean
8840: Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean
8841: Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean
8842: Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean
8843: AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
+ 'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )
8844: AddTypeS('TStreamIds', 'set of TStreamId
8845: AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context '
+ ': __Pointer; StreamIds : TStreamIds; end
8846: AddTypes('TFindStreamData', 'record internal : TInternalFindStreamData; At'
+ 'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8847: Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8848: Function NtfsFindNextStream( var Data : TFindStreamData ) : Boolean
8849: Function NtfsFindStreamClose( var Data : TFindStreamData ) : Boolean
8850: Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean
8851: AddTypes('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8852: Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean
8853: Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
List:TStrings):Bool;
8854: Function NtfsDeleteHardLinks( const FileName : string ) : Boolean
8855: Function JclAppInstances : TJclAppInstances;
8856: Function JclAppInstances1( const UniqueAppIdGuidStr : string ) : TJclAppInstances;
8857: Function ReadMessageCheck( var Message : TMessage;const IgnoredOriginatorWnd: HWND ) : TJclAppInstDataKind
8858: Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer )
8859: Procedure ReadMessageString( const Message : TMessage; var S : string )
8860: Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings )
8861:
8862:
8863:
8864:
8865:
8866: (*-----*)
8867: procedure SIRegister_JclGraphics(CL: TPPascalCompiler);
8868: begin
8869:   FindClass('TOBJECT','EJclGraphicsError
8870:   TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8871:   TDynPointArray', 'array of TPoint
8872:   TDynDynPointArrayArray', 'array of TDynPointArray
8873:   TPointF', 'record X : Single; Y : Single; end
8874:   TDynPointArrayF', 'array of TPointF
8875:   TDrawMode2', '( dmOpaque, dmBlend )
8876:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8877:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8878:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8879:   TMatrix3d', 'record array[0..2,0..2] of extended end
8880:   TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8881:   TScanLine', 'array of Integer
8882:   TScanLines', 'array of TScanLine
8883:   TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8884:   TGradientDirection', '( gdVertical, gdHorizontal )
8885:   TPolyFillMode', '( fmAlternate, fmWinding )
8886:   TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8887:   TJclRegionBitmapMode', '( rmInclude, rmExclude )
8888:   TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8889:   SIRegister_TJclDesktopCanvas(CL);
8890:   FindClass('TOBJECT','TJclRegion
8891:   SIRegister_TJclRegionInfo(CL);
8892:   SIRegister_TJclRegion(CL);
8893:   SIRegister_TJclThreadPersistent(CL);
8894:   SIRegister_TJclCustomMap(CL);
8895:   SIRegister_TJclBitmap32(CL);
8896:   SIRegister_TJclByteMap(CL);
8897:   SIRegister_TJclTransformation(CL);
8898:   SIRegister_TJclLinearTransformation(CL);
8899:   Procedure Stretch(NewWidth,
NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8900:   Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8901:   Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8902:   Function GetAntialiasedBitmap( const Bitmap : TBitmap ) : TBitmap

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8903: Procedure BitmapToJpeg( const FileName : string )
8904: Procedure JpegToBitmap( const FileName : string )
8905: Function ExtractIconCount( const FileName : string ) : Integer
8906: Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8907: Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8908: Procedure
8909:   BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8910:   Procedure StretchTransfer(Dst:TJclBitmap32;
8911:     DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8912:   Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation )
8913:   Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect )
8914:   Function FillGradient(DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
8915:     TGradientDirection ) : Boolean;
8916:   Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
8917:     RegionBitmapMode:TJclRegionBitmapMode) : HGRN
8918:   Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND );
8919:   Procedure ScreenShot1( bm : TBitmap );
8920:   Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8921:   Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8922:   Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32 )
8923:   Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8924:   Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8925:   Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32 )
8926:   Procedure PolyPolygonsTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8927:   Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8928:   Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8929:   Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32 )
8930:   Procedure IntensityToAlpha( Dst, Src : TJclBitmap32 )
8931:   Procedure Invert( Dst, Src : TJclBitmap32 )
8932: end;
8933:
8934: (*-----*)
8935: procedure SIRegister_JclSynch(CL: TPSPascalCompiler);
8936: begin
8937:   Function LockedAdd( var Target : Integer; Value : Integer ) : Integer
8938:   Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer ) : Integer
8939:   Function LockedCompareExchangeI( var Target : __Pointer; Exch, Comp : __Pointer ) : Pointer;
8940:   Function LockedDec( var Target : Integer ) : Integer
8941:   Function LockedExchange( var Target : Integer; Value : Integer ) : Integer
8942:   Function LockedExchangeAdd( var Target : Integer; Value : Integer ) : Integer
8943:   Function LockedExchangeDec( var Target : Integer ) : Integer
8944:   Function LockedExchangeInc( var Target : Integer ) : Integer
8945:   Function LockedExchangeSub( var Target : Integer; Value : Integer ) : Integer
8946:   Function LockedInc( var Target : Integer ) : Integer
8947:   Function LockedSub( var Target : Integer; Value : Integer ) : Integer
8948:   TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8949:   SIRegister_TJclDispatcherObject(CL);
8950:   Function WaitForMultipleObjects(const Objects:array of
8951:     TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8952:   Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
8953:     TimeOut : Cardinal):Cardinal
8954:   SIRegister_TJclCriticalSection(CL);
8955:   SIRegister_TJclEvent(CL);
8956:   SIRegister_TJclWaitableTimer(CL);
8957:   SIRegister_TJclSemaphore(CL);
8958:   SIRegister_TJclMutex(CL);
8959:   POptexSharedInfo', '^POptexSharedInfo // will not work
8960:   TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8961:   SIRegister_TJclOptex(CL);
8962:   TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8963:   TMrewThreadInfo', 'record Threadid : Longword; RecursionCount: Integer; Reader : Boolean; end
8964:   TMrewThreadInfoArray', 'array of TMrewThreadInfo
8965:   SIRegister_TJclMultiReadExclusiveWrite(CL);
8966:   PMetSectSharedInfo', '^PMetSectSharedInfo // will not work
8967:   TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
8968:     +'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8969:   PMeteredSection', '^TMeteredSection // will not work
8970:   TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8971:   SIRegister_TJclMeteredSection(CL);
8972:   TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8973:   TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8974:   TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8975:   TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8976:   Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection ) : Boolean
8977:   Function QueryEvent( Handle : THandle; var Info : TEventInfo ) : Boolean
8978:   Function QueryMutex( Handle : THandle; var Info : TMutexInfo ) : Boolean
8979:   Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts ) : Boolean
8980:   Function QueryTimer( Handle : THandle; var Info : TTimerInfo ) : Boolean
8981:   FindClass('TOBJECT'), 'EJclWin32HandleObjectError
8982:   FindClass('TOBJECT'), 'EJclDispatcherObjectError
8983:   FindClass('TOBJECT'), 'EJclCriticalSectionError
8984:   FindClass('TOBJECT'), 'EJclEventError
8985:   FindClass('TOBJECT'), 'EJclWaitableTimerError

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8986:   FindClass( 'TOBJECT' ), 'EJclMutexError
8987:   FindClass( 'TOBJECT' ), 'EJclMeteredSectionError
8988: end;
8989:
8990:
8991: //*****unit uPSI_mORMotReport;
8992: Procedure SetCurrentPrinterAsDefault
8993: Function CurrentPrinterName : string
8994: Function mCurrentPrinterPaperSize : string
8995: Procedure UseDefaultPrinter
8996:
8997: procedure SIRegisterTSTREAM(C1: TPSPascalCompiler);
8998: begin
8999:   with FindClass( 'TOBJECT' ), 'TStream' ) do begin
9000:     IsAbstract := True;
9001:     //RegisterMethod('Function Read( var Buffer, Count : Longint ) : Longint
9002:     // RegisterMethod('Function Write( const Buffer, Count : Longint ) : Longint
9003:     function Read(Buffer:String;Count:LongInt):LongInt
9004:     function Write(Buffer:String;Count:LongInt):LongInt
9005:     function ReadString(Buffer:String;Count:LongInt):LongInt      //FileStream
9006:     function WriteString(Buffer:String;Count:LongInt):LongInt
9007:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
9008:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
9009:     function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
9010:     function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
9011:
9012:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
9013:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
9014:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
9015:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
9016:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
9017:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
9018:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
9019:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
9020:
9021:     function Seek(Offset:LongInt;Origin:Word):LongInt
9022:     procedure ReadBuffer(Buffer:String;Count:LongInt)
9023:     procedure WriteBuffer(Buffer:String;Count:LongInt)
9024:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)';
9025:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)';
9026:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)';
9027:     procedure WriteBufferFloat(Buffer:Double;Count:LongInt)';
9028:
9029:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
9030:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
9031:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
9032:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
9033:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
9034:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
9035:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
9036:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
9037:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
9038:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
9039:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
9040:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
9041:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
9042:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
9043:
9044:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
9045:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
9046:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)';
9047:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
9048: //READBUFFERAC
9049:   function InstanceSize: Longint
9050:   Procedure FixupResourceHeader( FixupInfo : Integer )
9051:   Procedure ReadResHeader
9052:
9053: { $IFDEF DELPHI4UP }
9054:   function CopyFrom(Source:TStream;Count:Int64):LongInt
9055: { $ELSE }
9056:   function CopyFrom(Source:TStream;Count:Integer):LongInt
9057: { $ENDIF }
9058:   RegisterProperty('Position', 'LongInt', iptrw);
9059:   RegisterProperty('Size', 'LongInt', iptrw);
9060: end;
9061: end;
9062:
9063:
9064: { *****
9065:   Unit DMATH - Interface for DMATH.DLL
9066:   ***** }
9067: // see more docs/dmath_manual.pdf
9068:
9069: Function InitEval : Integer
9070: Procedure SetVariable( VarName : Char; Value : Float)
9071: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9072: Function Eval( ExpressionString : String) : Float
9073:
9074: unit dmath; //types are in built, others are external in DLL

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9075: interface
9076: {$IFDEF DELPHI}
9077: uses
9078:   StdCtrls, Graphics;
9079: {$ENDIF}
9080: {
9081:   Types and constants
9082:   ----- }
9083: {$i types.inc}
9084: {
9085:   Error handling
9086:   ----- }
9087: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9088: { Sets the error code }
9089: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9090: { Sets error code and default function value }
9091: function MathErr : Integer; external 'dmath';
9092: { Returns the error code }
9093: {
9094:   Dynamic arrays
9095:   ----- }
9096: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9097: { Sets the auto-initialization of arrays }
9098: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9099: { Creates floating point vector V[0..Ub] }
9100: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9101: { Creates integer vector V[0..Ub] }
9102: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9103: { Creates complex vector V[0..Ub] }
9104: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9105: { Creates boolean vector V[0..Ub] }
9106: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9107: { Creates string vector V[0..Ub] }
9108: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9109: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9110: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9111: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9112: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9113: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9114: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9115: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9116: procedure DimStrMatrix(var A : TStringMatrix; Ub1, Ub2 : Integer); external 'dmath';
9117: { Creates string matrix A[0..Ub1, 0..Ub2] }
9118: {
9119:   Minimum, maximum, sign and exchange
9120:   ----- }
9121: function FMin(X, Y : Float) : Float; external 'dmath';
9122: { Minimum of 2 reals }
9123: function FMax(X, Y : Float) : Float; external 'dmath';
9124: { Maximum of 2 reals }
9125: function IMin(X, Y : Integer) : Integer; external 'dmath';
9126: { Minimum of 2 integers }
9127: function IMax(X, Y : Integer) : Integer; external 'dmath';
9128: { Maximum of 2 integers }
9129: function Sgn(X : Float) : Integer; external 'dmath';
9130: { Sign (returns 1 if X = 0) }
9131: function Sgn0(X : Float) : Integer; external 'dmath';
9132: { Sign (returns 0 if X = 0) }
9133: function DSgn(A, B : Float) : Float; external 'dmath';
9134: { Sgn(B) * |A| }
9135: procedure FSwap(var X, Y : Float); external 'dmath';
9136: { Exchange 2 reals }
9137: procedure ISwap(var X, Y : Integer); external 'dmath';
9138: { Exchange 2 integers }
9139: {
9140:   Rounding functions
9141:   ----- }
9142: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9143: { Rounds X to N decimal places }
9144: function Ceil(X : Float) : Integer; external 'dmath';
9145: { Ceiling function }
9146: function Floor(X : Float) : Integer; external 'dmath';
9147: { Floor function }
9148: {
9149:   Logarithms, exponentials and power
9150:   ----- }
9151: function Exp(X : Float) : Float; external 'dmath';
9152: { Exponential }
9153: function Exp2(X : Float) : Float; external 'dmath';
9154: { 2^X }
9155: function Exp10(X : Float) : Float; external 'dmath';
9156: { 10^X }
9157: function Log(X : Float) : Float; external 'dmath';
9158: { Natural log }
9159: function Log2(X : Float) : Float; external 'dmath';
9160: { Log, base 2 }
9161: function Log10(X : Float) : Float; external 'dmath';
9162: { Decimal log }
9163: function LogA(X, A : Float) : Float; external 'dmath';

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9164: { Log, base A }
9165: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9166: { X^N }
9167: function Power(X, Y : Float) : Float; external 'dmath';
9168: { X^Y, X >= 0 }
9169: { -----
9170:   Trigonometric functions
9171:   ----- }
9172: function Pythag(X, Y : Float) : Float; external 'dmath';
9173: { Sqrt(X^2 + Y^2) }
9174: function FixAngle(Theta : Float) : Float; external 'dmath';
9175: { Set Theta in -Pi..Pi }
9176: function Tan(X : Float) : Float; external 'dmath';
9177: { Tangent }
9178: function ArcSin(X : Float) : Float; external 'dmath';
9179: { Arc sinus }
9180: function ArcCos(X : Float) : Float; external 'dmath';
9181: { Arc cosinus }
9182: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9183: { Angle (Ox, OM) with M(X,Y) }
9184: { -----
9185:   Hyperbolic functions
9186:   ----- }
9187: function Sinh(X : Float) : Float; external 'dmath';
9188: { Hyperbolic sine }
9189: function Cosh(X : Float) : Float; external 'dmath';
9190: { Hyperbolic cosine }
9191: function Tanh(X : Float) : Float; external 'dmath';
9192: { Hyperbolic tangent }
9193: function ArcSinh(X : Float) : Float; external 'dmath';
9194: { Inverse hyperbolic sine }
9195: function ArcCosh(X : Float) : Float; external 'dmath';
9196: { Inverse hyperbolic cosine }
9197: function ArcTanh(X : Float) : Float; external 'dmath';
9198: { Inverse hyperbolic tangent }
9199: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9200: { Sinh & Cosh }
9201: { -----
9202:   Gamma function and related functions
9203:   ----- }
9204: function Fact(N : Integer) : Float; external 'dmath';
9205: { Factorial }
9206: function SgnGamma(X : Float) : Integer; external 'dmath';
9207: { Sign of Gamma function }
9208: function Gamma(X : Float) : Float; external 'dmath';
9209: { Gamma function }
9210: function LnGamma(X : Float) : Float; external 'dmath';
9211: { Logarithm of Gamma function }
9212: function Stirling(X : Float) : Float; external 'dmath';
9213: { Stirling's formula for the Gamma function }
9214: function StirLog(X : Float) : Float; external 'dmath';
9215: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9216: function DiGamma(X : Float) : Float; external 'dmath';
9217: { Digamma function }
9218: function TriGamma(X : Float) : Float; external 'dmath';
9219: { Trigamma function }
9220: function IGamma(A, X : Float) : Float; external 'dmath';
9221: { Incomplete Gamma function }
9222: function JGamma(A, X : Float) : Float; external 'dmath';
9223: { Complement of incomplete Gamma function }
9224: function InvGamma(A, P : Float) : Float; external 'dmath';
9225: { Inverse of incomplete Gamma function }
9226: function Erf(X : Float) : Float; external 'dmath';
9227: { Error function }
9228: function Erfc(X : Float) : Float; external 'dmath';
9229: { Complement of error function }
9230: { -----
9231:   Beta function and related functions
9232:   ----- }
9233: function Beta(X, Y : Float) : Float; external 'dmath';
9234: { Beta function }
9235: function IBeta(A, B, X : Float) : Float; external 'dmath';
9236: { Incomplete Beta function }
9237: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9238: { Inverse of incomplete Beta function }
9239: { -----
9240:   Lambert's function
9241:   ----- }
9242: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9243: { -----
9244:   Binomial distribution
9245:   ----- }
9246: function Binomial(N, K : Integer) : Float; external 'dmath';
9247: { Binomial coefficient C(N,K) }
9248: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9249: { Probability of binomial distribution }
9250: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9251: { Cumulative probability for binomial distrib. }
9252: { -----

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9253: Poisson distribution
9254: -----
9255: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9256: { Probability of Poisson distribution }
9257: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9258: { Cumulative probability for Poisson distrib. }
9259: {
9260: Exponential distribution
9261: -----
9262: function DExpo(A, X : Float) : Float; external 'dmath';
9263: { Density of exponential distribution with parameter A }
9264: function FExpo(A, X : Float) : Float; external 'dmath';
9265: { Cumulative probability function for exponential dist. with parameter A }
9266: {
9267: Standard normal distribution
9268: -----
9269: function DNorm(X : Float) : Float; external 'dmath';
9270: { Density of standard normal distribution }
9271: function FNorm(X : Float) : Float; external 'dmath';
9272: { Cumulative probability for standard normal distrib. }
9273: function PNorm(X : Float) : Float; external 'dmath';
9274: { Prob(|U| > X) for standard normal distrib. }
9275: function InvNorm(P : Float) : Float; external 'dmath';
9276: { Inverse of standard normal distribution }
9277: {
9278: Student's distribution
9279: -----
9280: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9281: { Density of Student distribution with Nu d.o.f. }
9282: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9283: { Cumulative probability for Student distrib. with Nu d.o.f. }
9284: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9285: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9286: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9287: { Inverse of Student's t-distribution function }
9288: {
9289: Khi-2 distribution
9290: -----
9291: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9292: { Density of Khi-2 distribution with Nu d.o.f. }
9293: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9294: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9295: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9296: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9297: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9298: { Inverse of Khi-2 distribution function }
9299: {
9300: Fisher-Snedecor distribution
9301: -----
9302: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9303: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9304: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9305: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9306: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9307: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9308: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9309: { Inverse of Snedecor's F-distribution function }
9310: {
9311: Beta distribution
9312: -----
9313: function DBeta(A, B, X : Float) : Float; external 'dmath';
9314: { Density of Beta distribution with parameters A and B }
9315: function FBeta(A, B, X : Float) : Float; external 'dmath';
9316: { Cumulative probability for Beta distrib. with param. A and B }
9317: {
9318: Gamma distribution
9319: -----
9320: function DGamma(A, B, X : Float) : Float; external 'dmath';
9321: { Density of Gamma distribution with parameters A and B }
9322: function FGamma(A, B, X : Float) : Float; external 'dmath';
9323: { Cumulative probability for Gamma distrib. with param. A and B }
9324: {
9325: Expression evaluation
9326: -----
9327: function InitEval : Integer; external 'dmath';
9328: { Initializes built-in functions and returns their number }
9329: function Eval(ExpressionString : String) : Float; external 'dmath';
9330: { Evaluates an expression at run-time }
9331: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9332: { Assigns a value to a variable }
9333: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9334: { Adds a function to the parser }
9335: {
9336: Matrices and linear equations
9337: -----
9338: procedure GaussJordan(A : TMatrix;
9339: Lb, Ubl, Ub2 : Integer;
9340: var Det : Float); external 'dmath';
9341: { Transforms a matrix according to the Gauss-Jordan method }

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9342: procedure LinEq(A      : TMatrix;
9343:           B      : TVector;
9344:           Lb, Ub : Integer;
9345:           var Det : Float); external 'dmath';
9346: { Solves a linear system according to the Gauss-Jordan method }
9347: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9348: { Cholesky factorization of a positive definite symmetric matrix }
9349: procedure LU_Decom(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9350: { LU decomposition }
9351: procedure LU_Solve(A      : TMatrix;
9352:           B      : TVector;
9353:           Lb, Ub : Integer;
9354:           X      : TVector); external 'dmath';
9355: { Solution of linear system from LU decomposition }
9356: procedure QR_Decom(A      : TMatrix;
9357:           Lb, Ub1, Ub2 : Integer;
9358:           R      : TMatrix); external 'dmath';
9359: { QR decomposition }
9360: procedure QR_Solve(Q, R      : TMatrix;
9361:           B      : TVector;
9362:           Lb, Ub1, Ub2 : Integer;
9363:           X      : TVector); external 'dmath';
9364: { Solution of linear system from QR decomposition }
9365: procedure SV_Decom(A      : TMatrix;
9366:           Lb, Ub1, Ub2 : Integer;
9367:           S      : TVector;
9368:           V      : TMatrix); external 'dmath';
9369: { Singular value decomposition }
9370: procedure SV_SetZero(S      : TVector;
9371:           Lb, Ub : Integer;
9372:           Tol   : Float); external 'dmath';
9373: { Set lowest singular values to zero }
9374: procedure SV_Solve(U      : TMatrix;
9375:           S      : TVector;
9376:           V      : TMatrix;
9377:           B      : TVector;
9378:           Lb, Ub1, Ub2 : Integer;
9379:           X      : TVector); external 'dmath';
9380: { Solution of linear system from SVD }
9381: procedure SV_Approx(U      : TMatrix;
9382:           S      : TVector;
9383:           V      : TMatrix;
9384:           Lb, Ub1, Ub2 : Integer;
9385:           A      : TMatrix); external 'dmath';
9386: { Matrix approximation from SVD }
9387: procedure EigenVals(A      : TMatrix;
9388:           Lb, Ub : Integer;
9389:           Lambda : TCompVector); external 'dmath';
9390: { Eigenvalues of a general square matrix }
9391: procedure EigenVect(A      : TMatrix;
9392:           Lb, Ub : Integer;
9393:           Lambda : TCompVector;
9394:           V      : TMatrix); external 'dmath';
9395: { Eigenvalues and eigenvectors of a general square matrix }
9396: procedure EigenSym(A      : TMatrix;
9397:           Lb, Ub : Integer;
9398:           Lambda : TVector;
9399:           V      : TMatrix); external 'dmath';
9400: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9401: procedure Jacobi(A      : TMatrix;
9402:           Lb, Ub, MaxIter : Integer;
9403:           Tol   : Float;
9404:           Lambda : TVector;
9405:           V      : TMatrix); external 'dmath';
9406: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9407: { -----
9408: Optimization
9409: ----- }
9410: procedure MinBrack(Func      : TFunc;
9411:           var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9412: { Brackets a minimum of a function }
9413: procedure GoldSearch(Func      : TFunc;
9414:           A, B      : Float;
9415:           MaxIter   : Integer;
9416:           Tol       : Float;
9417:           var Xmin, Ymin : Float); external 'dmath';
9418: { Minimization of a function of one variable (golden search) }
9419: procedure LinMin(Func      : TFuncNVar;
9420:           X, DeltaX : TVector;
9421:           Lb, Ub : Integer;
9422:           var R : Float;
9423:           MaxIter : Integer;
9424:           Tol : Float;
9425:           var F_min : Float); external 'dmath';
9426: { Minimization of a function of several variables along a line }
9427: procedure Newton(Func      : TFuncNVar;
9428:           HessGrad : THessGrad;
9429:           X      : TVector;
9430:           Lb, Ub : Integer;

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9431:           MaxIter : Integer;
9432:           Tol : Float;
9433:           var F_min : Float;
9434:           G : TVector;
9435:           H_inv : TMatrix;
9436:           var Det : Float); external 'dmath';
9437: { Minimization of a function of several variables (Newton's method) }
9438: procedure SaveNewton(FileName : string); external 'dmath';
9439: { Save Newton iterations in a file }
9440: procedure Marquardt(Func : TFuncNVar;
9441:           HessGrad : THessGrad;
9442:           X : TVector;
9443:           Lb, Ub : Integer;
9444:           MaxIter : Integer;
9445:           Tol : Float;
9446:           var F_min : Float;
9447:           G : TVector;
9448:           H_inv : TMatrix;
9449:           var Det : Float); external 'dmath';
9450: { Minimization of a function of several variables (Marquardt's method) }
9451: procedure SaveMarquardt(FileName : string); external 'dmath';
9452: { Save Marquardt iterations in a file }
9453: procedure BFGS(Func : TFuncNVar;
9454:           Gradient : TGradient;
9455:           X : TVector;
9456:           Lb, Ub : Integer;
9457:           MaxIter : Integer;
9458:           Tol : Float;
9459:           var F_min : Float;
9460:           G : TVector;
9461:           H_inv : TMatrix); external 'dmath';
9462: { Minimization of a function of several variables (BFGS method) }
9463: procedure SaveBFGS(FileName : string); external 'dmath';
9464: { Save BFGS iterations in a file }
9465: procedure Simplex(Func : TFuncNVar;
9466:           X : TVector;
9467:           Lb, Ub : Integer;
9468:           MaxIter : Integer;
9469:           Tol : Float;
9470:           var F_min : Float); external 'dmath';
9471: { Minimization of a function of several variables (Simplex) }
9472: procedure SaveSimplex(FileName : string); external 'dmath';
9473: { Save Simplex iterations in a file }
9474: { -----
9475:   Nonlinear equations
9476:   ----- }
9477: procedure RootBrack(Func : TFunc;
9478:           var X, Y, FX, FY : Float); external 'dmath';
9479: { Brackets a root of function Func between X and Y }
9480: procedure Bisect(Func : TFunc;
9481:           var X, Y : Float;
9482:           MaxIter : Integer;
9483:           Tol : Float;
9484:           var F : Float); external 'dmath';
9485: { Bisection method }
9486: procedure Secant(Func : TFunc;
9487:           var X, Y : Float;
9488:           MaxIter : Integer;
9489:           Tol : Float;
9490:           var F : Float); external 'dmath';
9491: { Secant method }
9492: procedure NewtEq(Func, Deriv : TFunc;
9493:           var X : Float;
9494:           MaxIter : Integer;
9495:           Tol : Float;
9496:           var F : Float); external 'dmath';
9497: { Newton-Raphson method for a single nonlinear equation }
9498: procedure NewtEqs(Equations : TEquations;
9499:           Jacobian : TJacobian;
9500:           X, F : TVector;
9501:           Lb, Ub : Integer;
9502:           MaxIter : Integer;
9503:           Tol : Float); external 'dmath';
9504: { Newton-Raphson method for a system of nonlinear equations }
9505: procedure Broyden(Equations : TEquations;
9506:           X, F : TVector;
9507:           Lb, Ub : Integer;
9508:           MaxIter : Integer;
9509:           Tol : Float); external 'dmath';
9510: { Broyden's method for a system of nonlinear equations }
9511: { -----
9512:   Polynomials and rational fractions
9513:   ----- }
9514: function Poly(X : Float;
9515:           Coef : TVector;
9516:           Deg : Integer) : Float; external 'dmath';
9517: { Evaluates a polynomial }
9518: function Rfrac(X : Float;
9519:           Coef : TVector;

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9520:           Deg1, Deg2 : Integer) : Float; external 'dmath';
9521: { Evaluates a rational fraction }
9522: function RootPol1(A, B : Float;
9523:                      var X : Float) : Integer; external 'dmath';
9524: { Solves the linear equation A + B * X = 0 }
9525: function RootPol2(Coef : TVector;
9526:                      Z : TCompVector) : Integer; external 'dmath';
9527: { Solves a quadratic equation }
9528: function RootPol3(Coef : TVector;
9529:                      Z : TCompVector) : Integer; external 'dmath';
9530: { Solves a cubic equation }
9531: function RootPol4(Coef : TVector;
9532:                      Z : TCompVector) : Integer; external 'dmath';
9533: { Solves a quartic equation }
9534: function RootPol(Coef : TVector;
9535:                      Deg : Integer;
9536:                      Z : TCompVector) : Integer; external 'dmath';
9537: { Solves a polynomial equation }
9538: function SetRealRoots(Deg : Integer;
9539:                          Z : TCompVector;
9540:                          Tol : Float) : Integer; external 'dmath';
9541: { Set the imaginary part of a root to zero }
9542: procedure SortRoots(Deg : Integer;
9543:                         Z : TCompVector); external 'dmath';
9544: { Sorts the roots of a polynomial }
9545: { -----
9546: Numerical integration and differential equations
9547: ----- }
9548: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9549: { Integration by trapezoidal rule }
9550: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9551: { Integral from A to B }
9552: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9553: { Integral from 0 to B }
9554: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9555: { Convolution product at time T }
9556: procedure ConvTrap(Func1, Func2:TFunc; T,Y:TVector; N:Integer);external 'dmath';
9557: { Convolution by trapezoidal rule }
9558: procedure RKF45(F : TDiffEqs;
9559:                     Neqn : Integer;
9560:                     Y, Yp : TVector;
9561:                     var T : Float;
9562:                     Tout, RelErr, AbsErr : Float;
9563:                     var Flag : Integer); external 'dmath';
9564: { Integration of a system of differential equations }
9565: { -----
9566: Fast Fourier Transform
9567: ----- }
9568: procedure FFT(NumSamples : Integer;
9569:                  InArray, OutArray : TCompVector); external 'dmath';
9570: { Fast Fourier Transform }
9571: procedure IFFT(NumSamples : Integer;
9572:                  InArray, OutArray : TCompVector); external 'dmath';
9573: { Inverse Fast Fourier Transform }
9574: procedure FFT_Integer(NumSamples : Integer;
9575:                           RealIn, ImagIn : TIntVector;
9576:                           OutArray : TCompVector); external 'dmath';
9577: { Fast Fourier Transform for integer data }
9578: procedure FFT_Integer_Cleanup; external 'dmath';
9579: { Clear memory after a call to FFT_Integer }
9580: procedure CalcFrequency(NumSamples,
9581:                           FrequencyIndex : Integer;
9582:                           InArray : TCompVector;
9583:                           var FFT : Complex); external 'dmath';
9584: { Direct computation of Fourier transform }
9585: { -----
9586: Random numbers
9587: ----- }
9588: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9589: { Select generator }
9590: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9591: { Initialize generator }
9592: function IRanGen : RNG_IntType; external 'dmath';
9593: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9594: function IRanGen31 : RNG_IntType; external 'dmath';
9595: { 31-bit random integer in [0 .. 2^31 - 1] }
9596: function RanGen1 : Float; external 'dmath';
9597: { 32-bit random real in [0,1] }
9598: function RanGen2 : Float; external 'dmath';
9599: { 32-bit random real in [0,1) }
9600: function RanGen3 : Float; external 'dmath';
9601: { 32-bit random real in (0,1) }
9602: function RanGen53 : Float; external 'dmath';
9603: { 53-bit random real in [0,1) }
9604: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9605: { Initializes the 'Multiply with carry' random number generator }
9606: function IRanMWC : RNG_IntType; external 'dmath';
9607: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9608: procedure InitMT(Seed : RNG_IntType); external 'dmath';

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9609: { Initializes Mersenne Twister generator with a seed }
9610: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9611:                           KeyLength : Word); external 'dmath';
9612: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9613: function IRanMT : RNG_IntType; external 'dmath';
9614: { Random integer from MT generator }
9615: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9616: { Initializes the UVAG generator with a string }
9617: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9618: { Initializes the UVAG generator with an integer }
9619: function IRanUVAG : RNG_IntType; external 'dmath';
9620: { Random integer from UVAG generator }
9621: function RanGaussStd : Float; external 'dmath';
9622: { Random number from standard normal distribution }
9623: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9624: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9625: procedure RanMult(M : TVector; L : TMatrix;
9626:                      Lb, Ub : Integer;
9627:                      X : TVector); external 'dmath';
9628: { Random vector from multinormal distribution (correlated) }
9629: procedure RanMultIndep(M, S : TVector;
9630:                           Lb, Ub : Integer;
9631:                           X : TVector); external 'dmath';
9632: { Random vector from multinormal distribution (uncorrelated) }
9633: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9634: { Initializes Metropolis-Hastings parameters }
9635: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9636: { Returns Metropolis-Hastings parameters }
9637: procedure Hastings(Func : TFuncNVar;
9638:                       T : Float;
9639:                       X : TVector;
9640:                       V : TMatrix;
9641:                       Lb, Ub : Integer;
9642:                       Xmat : TMatrix;
9643:                       X_min : TVector;
9644:                       var F_min : Float); external 'dmath';
9645: { Simulation of a probability density function by Metropolis-Hastings }
9646: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9647: { Initializes Simulated Annealing parameters }
9648: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9649: { Initializes log file }
9650: procedure SimAnn(Func : TFuncNVar;
9651:                      X, Xmin, Xmax : TVector;
9652:                      Lb, Ub : Integer;
9653:                      var F_min : Float); external 'dmath';
9654: { Minimization of a function of several var. by simulated annealing }
9655: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9656: { Initializes Genetic Algorithm parameters }
9657: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9658: { Initializes log file }
9659: procedure GenAlg(Func : TFuncNVar;
9660:                      X, Xmin, Xmax : TVector;
9661:                      Lb, Ub : Integer;
9662:                      var F_min : Float); external 'dmath';
9663: { Minimization of a function of several var. by genetic algorithm }
9664: { -----
9665: Statistics
9666: -----
9667: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9668: { Mean of sample X }
9669: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9670: { Minimum of sample X }
9671: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9672: { Maximum of sample X }
9673: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9674: { Median of sample X }
9675: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9676: { Standard deviation estimated from sample X }
9677: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9678: { Standard deviation of population }
9679: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9680: { Correlation coefficient }
9681: function Skewness(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9682: { Skewness of sample X }
9683: function Kurtosis(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9684: { Kurtosis of sample X }
9685: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9686: { Quick sort (ascending order) }
9687: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9688: { Quick sort (descending order) }
9689: procedure Interval(X1, X2 : Float;
9690:                         MinDiv, MaxDiv : Integer;
9691:                         var Min, Max, Step : Float); external 'dmath';
9692: { Determines an interval for a set of values }
9693: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9694:                         var XMin, XMax, XStep : Float); external 'dmath';
9695: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9696: procedure StudIndep(N1, N2 : Integer;
9697:                         M1, M2, S1, S2 : Float);

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9698:           var T          : Float;
9699:           var DoF         : Integer); external 'dmath';
9700: { Student t-test for independent samples }
9701: procedure StudPaired(X, Y      : TVector;
9702:                         Lb, Ub   : Integer;
9703:                         var T      : Float;
9704:                         var DoF    : Integer); external 'dmath';
9705: { Student t-test for paired samples }
9706: procedure AnOVal(Ns        : Integer;
9707:                      N         : TIntVector;
9708:                      M, S     : TVector;
9709:                      var V_f, V_r, F : Float;
9710:                      var DoF_f, DoF_r : Integer); external 'dmath';
9711: { One-way analysis of variance }
9712: procedure AnOva2(NA, NB, Nobs : Integer;
9713:                      M, S     : TMatrix;
9714:                      V, F     : TVector;
9715:                      DoF      : TIntVector); external 'dmath';
9716: { Two-way analysis of variance }
9717: procedure Snedecor(N1, N2      : Integer;
9718:                         S1, S2    : Float;
9719:                         var F      : Float;
9720:                         var DoF1, DoF2 : Integer); external 'dmath';
9721: { Snedecor's F-test (comparison of two variances) }
9722: procedure Bartlett(Ns       : Integer;
9723:                         N         : TIntVector;
9724:                         S         : TVector;
9725:                         var Khi2   : Float;
9726:                         var DoF    : Integer); external 'dmath';
9727: { Bartlett's test (comparison of several variances) }
9728: procedure Mann_Whitney(N1, N2      : Integer;
9729:                         X1, X2    : TVector;
9730:                         var U, Eps : Float); external 'dmath';
9731: { Mann-Whitney test }
9732: procedure Wilcoxon(X, Y      : TVector;
9733:                         Lb, Ub   : Integer;
9734:                         var Ndiff  : Integer;
9735:                         var T, Eps : Float); external 'dmath';
9736: { Wilcoxon test }
9737: procedure Kruskal_Wallis(Ns      : Integer;
9738:                           N         : TIntVector;
9739:                           X         : TMatrix;
9740:                           var H      : Float;
9741:                           var DoF    : Integer); external 'dmath';
9742: { Kruskal-Wallis test }
9743: procedure Khi2_Conform(N_cls   : Integer;
9744:                           N_estim  : Integer;
9745:                           Obs      : TIntVector;
9746:                           Calc     : TVector;
9747:                           var Khi2   : Float;
9748:                           var DoF    : Integer); external 'dmath';
9749: { Khi-2 test for conformity }
9750: procedure Khi2_Indep(N_lin   : Integer;
9751:                           N_col    : Integer;
9752:                           Obs      : TIntMatrix;
9753:                           var Khi2   : Float;
9754:                           var DoF    : Integer); external 'dmath';
9755: { Khi-2 test for independence }
9756: procedure Woolf_Conform(N_cls   : Integer;
9757:                           N_estim  : Integer;
9758:                           Obs      : TIntVector;
9759:                           Calc     : TVector;
9760:                           var G      : Float;
9761:                           var DoF    : Integer); external 'dmath';
9762: { Woolf's test for conformity }
9763: procedure Woolf_Indep(N_lin   : Integer;
9764:                           N_col    : Integer;
9765:                           Obs      : TIntMatrix;
9766:                           var G      : Float;
9767:                           var DoF    : Integer); external 'dmath';
9768: { Woolf's test for independence }
9769: procedure DimStatClassVector(var C : TStatClassVector;
9770:                                 Ub      : Integer); external 'dmath';
9771: { Allocates an array of statistical classes: C[0..Ub] }
9772: procedure Distrib(X      : TVector;
9773:                       Lb, Ub   : Integer;
9774:                       A, B, H : Float;
9775:                       C       : TStatClassVector); external 'dmath';
9776: { Distributes an array X[Lb..Ub] into statistical classes }
9777: { -----
9778:  Linear / polynomial regression
9779:  ----- }
9780: procedure LinFit(X, Y      : TVector;
9781:                      Lb, Ub : Integer;
9782:                      B       : TVector;
9783:                      V       : TMatrix); external 'dmath';
9784: { Linear regression : Y = B(0) + B(1) * X }
9785: procedure WLinFit(X, Y, S : TVector;
9786:                      Lb, Ub : Integer;

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9787:           B      : TVector;
9788:           V      : TMatrix); external 'dmath';
9789: { Weighted linear regression :  $Y = B(0) + B(1) * X$  }
9790: procedure SVDLinFit(X, Y : TVector;
9791:                       Lb, Ub : Integer;
9792:                       SVDTol : Float;
9793:                       B      : TVector;
9794:                       V      : TMatrix); external 'dmath';
9795: { Unweighted linear regression by singular value decomposition }
9796: procedure WSVDLinFit(X, Y, S : TVector;
9797:                        Lb, Ub : Integer;
9798:                        SVDTol : Float;
9799:                        B      : TVector;
9800:                        V      : TMatrix); external 'dmath';
9801: { Weighted linear regression by singular value decomposition }
9802: procedure MulFit(X      : TMatrix;
9803:                     Y      : TVector;
9804:                     Lb, Ub, Nvar : Integer;
9805:                     ConsTerm : Boolean;
9806:                     B      : TVector;
9807:                     V      : TMatrix); external 'dmath';
9808: { Multiple linear regression by Gauss-Jordan method }
9809: procedure WMulFit(X      : TMatrix;
9810:                      Y, S   : TVector;
9811:                      Lb, Ub, Nvar : Integer;
9812:                      ConsTerm : Boolean;
9813:                      B      : TVector;
9814:                      V      : TMatrix); external 'dmath';
9815: { Weighted multiple linear regression by Gauss-Jordan method }
9816: procedure SVDFit(X      : TMatrix;
9817:                      Y      : TVector;
9818:                      Lb, Ub, Nvar : Integer;
9819:                      ConsTerm : Boolean;
9820:                      SVDTol : Float;
9821:                      B      : TVector;
9822:                      V      : TMatrix); external 'dmath';
9823: { Multiple linear regression by singular value decomposition }
9824: procedure WSVDFit(X      : TMatrix;
9825:                      Y, S   : TVector;
9826:                      Lb, Ub, Nvar : Integer;
9827:                      ConsTerm : Boolean;
9828:                      SVDTol : Float;
9829:                      B      : TVector;
9830:                      V      : TMatrix); external 'dmath';
9831: { Weighted multiple linear regression by singular value decomposition }
9832: procedure PolFit(X, Y      : TVector;
9833:                      Lb, Ub, Deg : Integer;
9834:                      B      : TVector;
9835:                      V      : TMatrix); external 'dmath';
9836: { Polynomial regression by Gauss-Jordan method }
9837: procedure WPolFit(X, Y, S : TVector;
9838:                      Lb, Ub, Deg : Integer;
9839:                      B      : TVector;
9840:                      V      : TMatrix); external 'dmath';
9841: { Weighted polynomial regression by Gauss-Jordan method }
9842: procedure SVDPolFit(X, Y : TVector;
9843:                       Lb, Ub, Deg : Integer;
9844:                       SVDTol : Float;
9845:                       B      : TVector;
9846:                       V      : TMatrix); external 'dmath';
9847: { Unweighted polynomial regression by singular value decomposition }
9848: procedure WSVDPolFit(X, Y, S : TVector;
9849:                        Lb, Ub, Deg : Integer;
9850:                        SVDTol : Float;
9851:                        B      : TVector;
9852:                        V      : TMatrix); external 'dmath';
9853: { Weighted polynomial regression by singular value decomposition }
9854: procedure RegTest(Y, Ycalc : TVector;
9855:                      LbY, UbY : Integer;
9856:                      V      : TMatrix;
9857:                      LbV, UbV : Integer;
9858:                      var Test : TRegTest); external 'dmath';
9859: { Test of unweighted regression }
9860: procedure WRegTest(Y, Ycalc, S : TVector;
9861:                      LbY, UbY : Integer;
9862:                      V      : TMatrix;
9863:                      LbV, UbV : Integer;
9864:                      var Test : TRegTest); external 'dmath';
9865: { Test of weighted regression }
9866: { -----
9867: Nonlinear regression
9868: ----- }
9869: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9870: { Sets the optimization algorithm for nonlinear regression }
9871: function GetOptAlgo : TOptAlgo; external 'dmath';
9872: { Returns the optimization algorithm }
9873: procedure SetMaxParam(N : Byte); external 'dmath';
9874: { Sets the maximum number of regression parameters for nonlinear regression }
9875: function GetMaxParam : Byte; external 'dmath';

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9876: { Returns the maximum number of regression parameters for nonlinear regression }
9877: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9878: { Sets the bounds on the I-th regression parameter }
9879: procedure GetParamBounds(I : Byte; var ParamMin,ParamMax:Float); external 'dmath';
9880: { Returns the bounds on the I-th regression parameter }
9881: procedure NLFit(RegFunc : TRegFunc;
9882:                     DerivProc : TDerivProc;
9883:                     X, Y      : TVector;
9884:                     Lb, Ub    : Integer;
9885:                     MaxIter   : Integer;
9886:                     Tol       : Float;
9887:                     B         : TVector;
9888:                     FirstPar, LastPar : Integer;
9889:                     V         : TMatrix); external 'dmath';
9890: { Unweighted nonlinear regression }
9891: procedure WNLFit(RegFunc : TRegFunc;
9892:                     DerivProc : TDerivProc;
9893:                     X, Y, S   : TVector;
9894:                     Lb, Ub    : Integer;
9895:                     MaxIter   : Integer;
9896:                     Tol       : Float;
9897:                     B         : TVector;
9898:                     FirstPar, LastPar : Integer;
9899:                     V         : TMatrix); external 'dmath';
9900: { Weighted nonlinear regression }
9901: procedure SetMCFile(FileName : String); external 'dmath';
9902: { Set file for saving MCMC simulations }
9903: procedure SimFit(RegFunc : TRegFunc;
9904:                     X, Y      : TVector;
9905:                     Lb, Ub    : Integer;
9906:                     B         : TVector;
9907:                     FirstPar, LastPar : Integer;
9908:                     V         : TMatrix); external 'dmath';
9909: { Simulation of unweighted nonlinear regression by MCMC }
9910: procedure WSimFit(RegFunc : TRegFunc;
9911:                     X, Y, S   : TVector;
9912:                     Lb, Ub    : Integer;
9913:                     B         : TVector;
9914:                     FirstPar, LastPar : Integer;
9915:                     V         : TMatrix); external 'dmath';
9916: { Simulation of weighted nonlinear regression by MCMC }
9917: { -----
9918: Nonlinear regression models
9919: ----- }
9920: { -----
9921: -----
9922: -----
9923: -----
9924: procedure FracFit(X, Y      : TVector;
9925:                      Lb, Ub    : Integer;
9926:                      Degl, Deg2 : Integer;
9927:                      ConsTerm  : Boolean;
9928:                      MaxIter   : Integer;
9929:                      Tol       : Float;
9930:                      B         : TVector;
9931:                      V         : TMatrix); external 'dmath';
9932: { Unweighted fit of rational fraction }
9933: procedure WFracFit(X, Y, S   : TVector;
9934:                      Lb, Ub    : Integer;
9935:                      Degl, Deg2 : Integer;
9936:                      ConsTerm  : Boolean;
9937:                      MaxIter   : Integer;
9938:                      Tol       : Float;
9939:                      B         : TVector;
9940:                      V         : TMatrix); external 'dmath';
9941: { Weighted fit of rational fraction }
9942: { -----
9943: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9944: { Returns the value of the rational fraction at point X }
9945: procedure ExpFit(X, Y      : TVector;
9946:                      Lb, Ub, Nexp : Integer;
9947:                      ConsTerm  : Boolean;
9948:                      MaxIter   : Integer;
9949:                      Tol       : Float;
9950:                      B         : TVector;
9951:                      V         : TMatrix); external 'dmath';
9952: { Unweighted fit of sum of exponentials }
9953: procedure WExpFit(X, Y, S   : TVector;
9954:                      Lb, Ub, Nexp : Integer;
9955:                      ConsTerm  : Boolean;
9956:                      MaxIter   : Integer;
9957:                      Tol       : Float;
9958:                      B         : TVector;
9959:                      V         : TMatrix); external 'dmath';
9960: { Weighted fit of sum of exponentials }
9961: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9962: { Returns the value of the regression function at point X }
9963: procedure IncExpFit(X, Y      : TVector;
9964:                      Lb, Ub    : Integer;

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9965:           ConsTerm : Boolean;
9966:           MaxIter  : Integer;
9967:           Tol      : Float;
9968:           B        : TVector;
9969:           V        : TMatrix); external 'dmath';
9970: { Unweighted fit of model of increasing exponential }
9971: procedure WIIncExpFit(X, Y, S : TVector;
9972:                           Lb, Ub : Integer;
9973:                           ConsTerm : Boolean;
9974:                           MaxIter  : Integer;
9975:                           Tol      : Float;
9976:                           B        : TVector;
9977:                           V        : TMatrix); external 'dmath';
9978: { Weighted fit of increasing exponential }
9979: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9980: { Returns the value of the regression function at point X }
9981: procedure ExpLinFit(X, Y : TVector;
9982:                         Lb, Ub : Integer;
9983:                         MaxIter : Integer;
9984:                         Tol      : Float;
9985:                         B        : TVector;
9986:                         V        : TMatrix); external 'dmath';
9987: { Unweighted fit of the "exponential + linear" model }
9988: procedure WExplinFit(X, Y, S : TVector;
9989:                         Lb, Ub : Integer;
9990:                         MaxIter : Integer;
9991:                         Tol      : Float;
9992:                         B        : TVector;
9993:                         V        : TMatrix); external 'dmath';
9994: { Weighted fit of the "exponential + linear" model }
9995:
9996: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9997: { Returns the value of the regression function at point X }
9998: procedure MichFit(X, Y : TVector;
9999:                         Lb, Ub : Integer;
10000:                        MaxIter : Integer;
10001:                        Tol      : Float;
10002:                        B        : TVector;
10003:                        V        : TMatrix); external 'dmath';
10004: { Unweighted fit of Michaelis equation }
10005: procedure WMichFit(X, Y, S : TVector;
10006:                         Lb, Ub : Integer;
10007:                         MaxIter : Integer;
10008:                         Tol      : Float;
10009:                         B        : TVector;
10010:                         V        : TMatrix); external 'dmath';
10011: { Weighted fit of Michaelis equation }
10012: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10013: { Returns the value of the Michaelis equation at point X }
10014: procedure MintFit(X, Y : TVector;
10015:                         Lb, Ub : Integer;
10016:                         MintVar : TMintVar;
10017:                         Fit_S0  : Boolean;
10018:                         MaxIter : Integer;
10019:                         Tol      : Float;
10020:                         B        : TVector;
10021:                         V        : TMatrix); external 'dmath';
10022: { Unweighted fit of the integrated Michaelis equation }
10023: procedure WMintFit(X, Y, S : TVector;
10024:                         Lb, Ub : Integer;
10025:                         MintVar : TMintVar;
10026:                         Fit_S0  : Boolean;
10027:                         MaxIter : Integer;
10028:                         Tol      : Float;
10029:                         B        : TVector;
10030:                         V        : TMatrix); external 'dmath';
10031: { Weighted fit of the integrated Michaelis equation }
10032: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10033: { Returns the value of the integrated Michaelis equation at point X }
10034: procedure HillFit(X, Y : TVector;
10035:                         Lb, Ub : Integer;
10036:                         MaxIter : Integer;
10037:                         Tol      : Float;
10038:                         B        : TVector;
10039:                         V        : TMatrix); external 'dmath';
10040: { Unweighted fit of Hill equation }
10041: procedure WHillFit(X, Y, S : TVector;
10042:                         Lb, Ub : Integer;
10043:                         MaxIter : Integer;
10044:                         Tol      : Float;
10045:                         B        : TVector;
10046:                         V        : TMatrix); external 'dmath';
10047: { Weighted fit of Hill equation }
10048: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10049: { Returns the value of the Hill equation at point X }
10050: procedure LogiFit(X, Y : TVector;
10051:                         Lb, Ub : Integer;
10052:                         ConsTerm : Boolean;
10053:                         General : Boolean;

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10054:           MaxIter : Integer;
10055:           Tol    : Float;
10056:           B      : TVector;
10057:           V      : TMatrix); external 'dmath';
10058: { Unweighted fit of logistic function }
10059: procedure WLogiFit(X, Y, S : TVector;
10060:           Lb, Ub : Integer;
10061:           ConstTerm : Boolean;
10062:           General : Boolean;
10063:           MaxIter : Integer;
10064:           Tol    : Float;
10065:           B      : TVector;
10066:           V      : TMatrix); external 'dmath';
10067: { Weighted fit of logistic function }
10068: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10069: { Returns the value of the logistic function at point X }
10070: procedure PKFit(X, Y : TVector;
10071:           Lb, Ub : Integer;
10072:           MaxIter : Integer;
10073:           Tol    : Float;
10074:           B      : TVector;
10075:           V      : TMatrix); external 'dmath';
10076: { Unweighted fit of the acid-base titration curve }
10077: procedure WPKFit(X, Y, S : TVector;
10078:           Lb, Ub : Integer;
10079:           MaxIter : Integer;
10080:           Tol    : Float;
10081:           B      : TVector;
10082:           V      : TMatrix); external 'dmath';
10083: { Weighted fit of the acid-base titration curve }
10084: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10085: { Returns the value of the acid-base titration function at point X }
10086: procedure PowFit(X, Y : TVector;
10087:           Lb, Ub : Integer;
10088:           MaxIter : Integer;
10089:           Tol    : Float;
10090:           B      : TVector;
10091:           V      : TMatrix); external 'dmath';
10092: { Unweighted fit of power function }
10093: procedure WPowFit(X, Y, S : TVector;
10094:           Lb, Ub : Integer;
10095:           MaxIter : Integer;
10096:           Tol    : Float;
10097:           B      : TVector;
10098:           V      : TMatrix); external 'dmath';
10099: { Weighted fit of power function }
10100:
10101: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10102: { Returns the value of the power function at point X }
10103: procedure GammaFit(X, Y : TVector;
10104:           Lb, Ub : Integer;
10105:           MaxIter : Integer;
10106:           Tol    : Float;
10107:           B      : TVector;
10108:           V      : TMatrix); external 'dmath';
10109: { Unweighted fit of gamma distribution function }
10110: procedure WGammaFit(X, Y, S : TVector;
10111:           Lb, Ub : Integer;
10112:           MaxIter : Integer;
10113:           Tol    : Float;
10114:           B      : TVector;
10115:           V      : TMatrix); external 'dmath';
10116: { Weighted fit of gamma distribution function }
10117: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10118: { Returns the value of the gamma distribution function at point X }
10119: { -----
10120:   Principal component analysis
10121:   ----- }
10122: procedure VecMean(X : TMatrix;
10123:           Lb, Ub, Nvar : Integer;
10124:           M      : TVector); external 'dmath';
10125: { Computes the mean vector M from matrix X }
10126: procedure VecSD(X : TMatrix;
10127:           Lb, Ub, Nvar : Integer;
10128:           M, S      : TVector); external 'dmath';
10129: { Computes the vector of standard deviations S from matrix X }
10130: procedure MatVarCov(X : TMatrix;
10131:           Lb, Ub, Nvar : Integer;
10132:           M      : TVector;
10133:           V      : TMatrix); external 'dmath';
10134: { Computes the variance-covariance matrix V from matrix X }
10135: procedure MatCorrel(V : TMatrix;
10136:           Nvar : Integer;
10137:           R      : TMatrix); external 'dmath';
10138: { Computes the correlation matrix R from the var-cov matrix V }
10139: procedure PCA(R : TMatrix;
10140:           Nvar : Integer;
10141:           Lambda : TVector;
10142:           C, Rc : TMatrix); external 'dmath';

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10143: { Performs a principal component analysis of the correlation matrix R }
10144: procedure ScaleVar(X : TMatrix;
10145:           Lb, Ub, Nvar : Integer;
10146:           M, S : TVector;
10147:           Z : TMATRIX); external 'dmath';
10148: { Scales a set of variables by subtracting means and dividing by SD's }
10149: procedure PrinFac(Z : TMatrix;
10150:           Lb, Ub, Nvar : Integer;
10151:           C, F : TMATRIX); external 'dmath';
10152: { Computes principal factors }
10153: { -----
10154:   Strings
10155:   ----- }
10156: function LTrim(S : String) : String; external 'dmath';
10157: { Removes leading blanks }
10158: function RTrim(S : String) : String; external 'dmath';
10159: { Removes trailing blanks }
10160: function Trim(S : String) : String; external 'dmath';
10161: { Removes leading and trailing blanks }
10162: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10163: { Returns a string made of character C repeated N times }
10164: function RFill(S : String; L : Byte) : String; external 'dmath';
10165: { Completes string S with trailing blanks for a total length L }
10166: function LFill(S : String; L : Byte) : String; external 'dmath';
10167: { Completes string S with leading blanks for a total length L }
10168: function CFill(S : String; L : Byte) : String; external 'dmath';
10169: { Centers string S on a total length L }
10170: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10171: { Replaces in string S all the occurrences of C1 by C2 }
10172: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10173: { Extracts a field from a string }
10174: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10175: { Parses a string into its constitutive fields }
10176: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10177: { Sets the numeric format }
10178: function FloatStr(X : Float) : String; external 'dmath';
10179: { Converts a real to a string according to the numeric format }
10180: function IntStr(N : LongInt) : String; external 'dmath';
10181: { Converts an integer to a string }
10182: function CompStr(Z : Complex) : String; external 'dmath';
10183: { Converts a complex number to a string }
10184: {$IFDEF DELPHI}
10185: function StrDec(S : String) : String; external 'dmath';
10186: { Set decimal separator to the symbol defined in SysUtils }
10187: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10188: { Test if a string represents a number and returns it in X }
10189: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10190: { Reads a floating point number from an Edit control }
10191: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10192: { Writes a floating point number in a text file }
10193: {$ENDIF}
10194: { -----
10195:   BGI / Delphi graphics
10196:   ----- }
10197: function InitGraphics
10198: {$IFDEF DELPHI}
10199: (Width, Height : Integer) : Boolean;
10200: {$ELSE}
10201: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10202: { Enters graphic mode }
10203: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10204:           X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10205: { Sets the graphic window }
10206: procedure SetOxScale(Scale : TScale;
10207:           OxMin, OxMax, OxStep : Float); external 'dmath';
10208: { Sets the scale on the Ox axis }
10209: procedure SetOyScale(Scale : TScale;
10210:           OyMin, OyMax, OyStep : Float); external 'dmath';
10211: { Sets the scale on the Oy axis }
10212: procedure GetOxScale(var Scale : TScale;
10213:           var OxMin, OxMax, OxStep : Float); external 'dmath';
10214: { Returns the scale on the Ox axis }
10215: procedure GetOyScale(var Scale : TScale;
10216:           var OyMin, OyMax, OyStep : Float); external 'dmath';
10217: { Returns the scale on the Oy axis }
10218: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10219: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10220: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10221: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10222: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10223: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10224: {$IFNDEF DELPHI}
10225: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10226: { Sets the font for the main graph title }
10227: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10228: { Sets the font for the Ox axis (title and labels) }
10229: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10230: { Sets the font for the Oy axis (title and labels) }
10231: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';

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10232: { Sets the font for the legends }
10233: procedure SetClipping(Clip : Boolean); external 'dmath';
10234: { Determines whether drawings are clipped at the current viewport
10235:   boundaries, according to the value of the Boolean parameter Clip }
10236: {$ENDIF}
10237: procedure PlotOxAxis({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10238: { Plots the horizontal axis }
10239: procedure PlotOyAxis({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10240: { Plots the vertical axis }
10241: procedure PlotGrid({$IFDEF DELPHI}Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10242: { Plots a grid on the graph }
10243: procedure WriteGraphTitle({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10244: { Writes the title of the graph }
10245: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10246: { Sets the maximum number of curves and re-initializes their parameters }
10247: procedure SetPointParam
10248: {$IFDEF DELPHI}
10249: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10250: {$ELSE}
10251: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10252: { Sets the point parameters for curve # CurvIndex }
10253: procedure SetlineParam
10254: {$IFDEF DELPHI}
10255: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10256: {$ELSE}
10257: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10258: { Sets the line parameters for curve # CurvIndex }
10259: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10260: { Sets the legend for curve # CurvIndex }
10261: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10262: { Sets the step for curve # CurvIndex }
10263: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10264: procedure GetPointParam
10265: {$IFDEF DELPHI}
10266: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10267: {$ELSE}
10268: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10269: { Returns the point parameters for curve # CurvIndex }
10270: procedure GetLineParam
10271: {$IFDEF DELPHI}
10272: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10273: {$ELSE}
10274: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10275: { Returns the line parameters for curve # CurvIndex }
10276: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10277: { Returns the legend for curve # CurvIndex }
10278: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10279: { Returns the step for curve # CurvIndex }
10280: {$IFDEF DELPHI}
10281: procedure PlotPoint(Canvas : TCanvas;
10282:                      X, Y : Float; CurvIndex : Integer); external 'dmath';
10283: {$ELSE}
10284: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10285: {$ENDIF}
10286: { Plots a point on the screen }
10287: procedure PlotCurve({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}
10288:                      X, Y : TVector;
10289:                      Lb, Ub, CurvIndex : Integer); external 'dmath';
10290: { Plots a curve }
10291: procedure PlotCurveWithErrorBars({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}
10292:                                     X, Y, S : TVector;
10293:                                     Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10294: { Plots a curve with error bars }
10295: procedure PlotFunc({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}
10296:                      Func : TFunc;
10297:                      Xmin, Xmax : Float;
10298:                      {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10299:                      CurvIndex : Integer); external 'dmath';
10300: { Plots a function }
10301: procedure WriteLegend({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}
10302:                          NCurv : Integer;
10303:                          ShowPoints, ShowLines : Boolean); external 'dmath';
10304: { Writes the legends for the plotted curves }
10305: procedure ConRec({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}
10306:                      Nx, Ny, Nc : Integer;
10307:                      X, Y, Z : TVector;
10308:                      F : TMatrix); external 'dmath';
10309: { Contour plot }
10310: function Xpixel(X : Float):Integer; external 'dmath'; {Converts user abscissa X to screen coordinate }
10311: function Ypixel(Y : Float):Integer; external 'dmath'; {Converts user ordinate Y to screen coordinate }
10312: function Xuser(X : Integer):Float; external 'dmath'; {Converts screen coordinate X to user abscissa }
10313: function Yuser(Y : Integer):Float; external 'dmath'; {Converts screen coordinate Y to user ordinate }
10314: {$IFDEF DELPHI}
10315: procedure LeaveGraphics; external 'dmath';
10316: { Quits graphic mode }
10317: {$ENDIF}
10318: { -----
10319:  LaTeX graphics
10320:  ----- }

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10321: function TeX_InitGraphics(FileName : String; PgWidth, PgHeight : Integer;
10322:                               Header : Boolean) : Boolean; external 'dmath';
10323: { Initializes the LaTeX file }
10324: procedure TeX_SetWindow(X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10325: { Sets the graphic window }
10326: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10327: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10328: { Sets the scale on the Ox axis }
10329: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10330: { Sets the scale on the Oy axis }
10331: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10332: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10333: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10334: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10335: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10336: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10337: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph }
10338: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10339: { Sets the maximum number of curves and re-initializes their parameters }
10340: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10341: { Sets the point parameters for curve # CurvIndex }
10342: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10343:                               Width : Float; Smooth : Boolean); external 'dmath';
10344: { Sets the line parameters for curve # CurvIndex }
10345: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10346: { Sets the legend for curve # CurvIndex }
10347: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10348: { Sets the step for curve # CurvIndex }
10349: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10350: { Plots a curve }
10351: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10352:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10353: { Plots a curve with error bars }
10354: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10355:                           Npt : Integer; CurvIndex : Integer); external 'dmath';
10356: { Plots a function }
10357: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10358: { Writes the legends for the plotted curves }
10359: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10360: { Contour plot }
10361: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10362: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10363:
10364: //*****unit uPSI_SynPdf;
10365: Function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10366: Function _DateTimeToPdfDate( ADate : TDateTime ) : TPdfDate
10367: Function _PdfToDateText( const AText : TPdfDate ) : TDateTime
10368: Function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10369: Function PdfRect1( const Box : TPdfBox ) : TPdfRect;
10370: Function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10371: //Function _GetCharCount( Text : PWideChar ) : integer
10372: //Procedure L2R( W : PWideChar; L : integer )
10373: Function PdfCoord( MM : single ) : integer
10374: Function CurrentPrinterPageSize : TPDFPaperSize
10375: Function CurrentPrinterRes : TPoint
10376: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10377: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10378: Procedure GDICommentLink( MetaHandle: HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10379: Const ('Usp10','String 'usp10.dll
10380: AddTypeS('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10381: 'fcharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10382: AddTypeS('TScriptState_set', 'set of TScriptState_enum
10383: //*****
10384:
10385: procedure SIRegister_PMrand(CL: TPSPascalCompiler); //ParkMiller
10386: begin
10387: Procedure PMrandomize( I : word)
10388: Function PMrandom : longint
10389: Function Rrand : extended
10390: Function Irand( N : word ) : word
10391: Function Brand( P : extended ) : boolean
10392: Function Nrand : extended
10393: end;
10394:
10395: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10396: begin
10397:   Function Endian( x : LongWord ) : LongWord
10398:   Function Endian64( x : Int64 ) : Int64
10399:   Function spRol( x : LongWord; y : Byte) : LongWord
10400:   Function spRor( x : LongWord; y : Byte) : LongWord
10401:   Function Ror64( x : Int64; y : Byte) : Int64
10402: end;
10403:
10404: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10405: begin
10406: Procedure ClearModules
10407: Procedure ReadMapfile( Fname : string )
10408: Function AddressInfo( Address : dword ) : string
10409: end;

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10410:
10411: procedure SIRегистер_LibTar(CL: TPSPascalCompiler);
10412: begin
10413:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwner
10414:     +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWriteByOther )
10415:     +'teByOther, tpExecuteByOther )
10416:   TTarPermissions', 'set of TTarPermission
10417:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10418:     +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;
10419:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10420:   TTarModes', 'set of TTarMode
10421:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDA'
10422:     +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10423:     +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING; '
10424:     +'ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10425:     +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10426:   SIRегистер_TTarArchive(CL);
10427:   SIRегистер_TTarWriter(CL);
10428:   Function PermissionString( Permissions : TTarPermissions ) : STRING
10429:   Function ConvertFilename( Filename : STRING ) : STRING
10430:   Function FileTimeGMT( FileName : STRING ) : TDateTime;
10431:   Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10432:   Procedure ClearDirRec( var DirRec : TTarDirRec )
10433: end;
10434:
10435:
10436: //*****unit uPSI_TlHelp32;
10437: procedure SIRегистер_TlHelp32(CL: TPSPascalCompiler);
10438: begin
10439:   Const('MAX_MODULE_NAME32','LongInt'( 255 );
10440:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD ) : THandle
10441:   Const('TH32CS_SNAPHEAPLIST','LongWord( $00000001 );
10442:   Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002 );
10443:   Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004 );
10444:   Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008 );
10445:   Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000 );
10446:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10447:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10448:   AddTypeS('TheapList32', 'tagHEAPLIST32
10449:   Const('HF32_DEFAULT','LongInt'( 1 );
10450:   Const('HF32_SHARED','LongInt'( 2 );
10451:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10452:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10453:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAdr'
10454:     +'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10455:     +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10456:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10457:   AddTypeS('TheapEntry32', 'tagHEAPENTRY32
10458:   Const('LF32_FIXED','LongWord').SetUInt( $00000001 );
10459:   Const('LF32_FREE','LongWord').SetUInt( $00000002 );
10460:   Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004 );
10461:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD ) : BOOL
10462:   Function Heap32Next( var lphe : THeapEntry32 ) : BOOL
10463:   DWORD; var lpNumberOfBytesRead : DWORD ) : BOOL
10464:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10465:     +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10466:     +'aPri : Longint; dwFlags : DWORD; end
10467:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10468:   AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10469:   Function Thread32First( hSnapshot : THandle; var lppte : TThreadEntry32 ) : BOOL
10470:   Function Thread32Next( hSnapshot : THandle; var lppte : TThreadEntry32 ) : BOOL
10471: end;
10472:   Const('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10473:   Const('EW_REBOOTSYSTEM','LongWord( $0043 );
10474:   Const('EW_EXITANDEXECAPP','LongWord( $0044 );
10475:   Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ) );
10476:   Const('EWX_LOGOFF','LongInt'( 0 );
10477:   Const('EWX_SHUTDOWN','LongInt'( 1 );
10478:   Const('EWX_REBOOT','LongInt'( 2 );
10479:   Const('EWX_FORCE','LongInt'( 4 );
10480:   Const('EWX_POWEROFF','LongInt'( 8 );
10481:   Const('EWX_FORCEIFHUNG','LongWord').SetUInt( $10 );
10482:   Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10483:   Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10484:   Function GET_MOUSEKEY_LPARAM( const lParam : LongInt ) : Word
10485:   Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10486:   Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10487:   Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10488:   Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10489:   Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10490:   Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10491:   Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10492:   Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10493:   Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
10494:   Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
10495:   Function GetDesktopWindow : HWND
10496:   Function GetParent( hWnd : HWND ) : HWND
10497:   Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND
10498:   Function GetTopWindow( hWnd : HWND ) : HWND

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10499: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND
10500: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND
10501: //Delphi DFM
10502: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10503: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string ) : integer
10504: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10505: function GetHighlightersFilter(AHighlighters: TStringList): string;
10506: function GetHighlighterFromfileExt(AHighlighters: TStringList; Extension: string):TSynCustomHighlighter;
10507: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL
10508: Function OpenIcon( hWnd : HWND ) : BOOL
10509: Function CloseWindow( hWnd : HWND ) : BOOL
10510: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL
10511: Function SetWindowPos(hWnd : HWND; hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UInt) : BOOL
10512: Function IsWindowVisible( hWnd : HWND ) : BOOL
10513: Function IsIconic( hWnd : HWND ) : BOOL
10514: Function AnyPopup : BOOL
10515: Function BringWindowToTop( hWnd : HWND ) : BOOL
10516: Function IsZoomed( hWnd : HWND ) : BOOL
10517: Function IsWindow( hWnd : HWND ) : BOOL
10518: Function IsMenu( hMenu : HMENU ) : BOOL
10519: Function IsChild( hWndParent, hWnd : HWND ) : BOOL
10520: Function DestroyWindow( hWnd : HWND ) : BOOL
10521: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL
10522: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL
10523: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL
10524: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL
10525: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10526: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10527: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10528:
10529: procedure SIRегистre_IDECmdLine(CL: TPSPascalCompiler);
10530: begin
10531:   const ('ShowSetupDialogOptLong', 'String '--setup
10532: PrimaryConfPathOptLong', 'String '--primary-config-path=
10533: PrimaryConfPathOptShort', 'String '--pcp=
10534: SecondaryConfPathOptLong', 'String '--secondary-config-path=
10535: SecondaryConfPathOptShort', 'String '--scp=
10536: NoSplashScreenOptLong', 'String '--no-splash-screen
10537: NoSplashScreenOptShort', 'String '--nsc
10538: StartedByStartLazarusOpt', 'String '--started-by-startlazarus
10539: SkipLastProjectOpt', 'String '--skip-last-project
10540: DebugLogOpt', 'String '--debug-log=
10541: DebugLogOptEnable', 'String '--debug-enable=
10542: LanguageOpt', 'String '--language=
10543: LazarusDirOpt', 'String '--lazarusdir=
10544: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10545: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean) : string
10546: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string
10547: Function IsHelpRequested : Boolean
10548: Function IsVersionRequested : boolean
10549: Function GetLanguageSpecified : string
10550: Function ParamIsOption( ParamIndex : integer; const Option : string ) : boolean
10551: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10552: Procedure ParseNoGuiCmdLineParams
10553: Function ExtractCmdLineFilenames : TStrings
10554: end;
10555:
10556:
10557: procedure SIRегистre_LazFileUtils(CL: TPSPascalCompiler);
10558: begin
10559:   Function CompareFilenames( const Filenam1, Filenam2 : string ) : integer
10560:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string ) : integer
10561:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean ) : integer;
10562:   Function CompareFileExt1( const Filenam, Ext : string ) : integer;
10563:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string ) : integer
10564:   Function CompareFilenames(Filenam1:PChar;Len1:integer; Filenam2:PChar;Len2:integer):integer
10565:   Function CompareFilenamesP( Filenam1:PChar, Filenam2:PChar; IgnoreCase : boolean ) : integer
10566:   Function DirPathExists( DirectoryName : string ) : boolean
10567:   Function DirectoryIsWritable( const DirectoryName : string ) : boolean
10568:   Function ExtractFileNameOnly( const AFilename : string ) : string
10569:   Function FilenamIsAbsolute( const Thefilename : string ) : boolean
10570:   Function FilenamIsWinAbsolute( const Thefilename : string ) : boolean
10571:   Function FilenamIsUnixAbsolute( const Thefilename : string ) : boolean
10572:   Function ForceDirectory( DirectoryName : string ) : boolean
10573:   Procedure CheckIffileIsExecutable( const Afilename : string )
10574:   Procedure CheckIffileIsSymlink( const Afilename : string )
10575:   Function FileIsText( const Afilename : string ) : boolean
10576:   Function FileIsText2( const Afilename : string; out FileReadable : boolean ) : boolean
10577:   Function FilenamIsTrimmed( const Thefilename : string ) : boolean
10578:   Function FilenamIsTrimmed2( StartPos : PChar; NameLen : integer ) : boolean
10579:   Function TrimFilename( const Afilename : string ) : string
10580:   Function ResolveDots( const Afilename : string ) : string
10581:   Procedure ForcePathDelims( var FileName : string )
10582:   Function GetForcedPathDelims( const FileName : string ) : String
10583:   Function CleanAndExpandfilename( const Filename : string ) : string
10584:   Function CleanAndExpandDirectory( const Filename : string ) : string
10585:   Function TrimAndExpandfilename( const Filename : string; const BaseDir : string ) : string
10586:   Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string ) : string
10587:   Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
  AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String ) : Boolean

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10588: Function CreateRelativePath( const Filename,BaseDirectory:string; UsePointDirectory:boolean;
10589:   AlwaysRequireSharedBaseFolder: Boolean) : string
10590: Function FileIsInPath( const Filename, Path : string) : boolean
10591: Function AppendPathDelim( const Path : string) : string
10592: Function ChompPathDelim( const Path : string) : string
10593: Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
10594: Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string) : string
10595: Function MinimizeSearchPath( const SearchPath : string) : string
10596: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
10597: (*Function FileExistsUTF8( const FileName : string) : boolean
10598: Function DirectoryExistsUTF8( const Directory : string) : Boolean
10599: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
10600: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10601: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
10602: Procedure FindCloseUTF8( var F : TSearchrec)
10603: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
10604: Function FileGetAttrUTF8( const FileName : String) : Longint
10605: Function FileSetAttrUTF8( const Filename : String; Attr : longint) : Longint
10606: Function DeleteFileUTF8( const FileName : String) : Boolean
10607: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
10608: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
10609: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
10610: Function GetCurrentDirUTF8 : String
10611: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
10612: Function CreateDirUTF8( const NewDir : String) : Boolean
10613: Function RemoveDirUTF8( const Dir : String) : Boolean
10614: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
10615: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
10616: Function FileCreateUTF8( const FileName : string) : THandle;
10617: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
10618: Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal) : THandle;
10619: Function FileSizeUTF8( const Filename : string) : int64
10620: Function GetFileDescription( const Afilename : string) : string
10621: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
10622: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
10623: Function GetTempFileNameUTF8( const Dir, Prefix : String*) : String*)
10624: Function IsUNCPath( const Path : String) : Boolean
10625: Function ExtractUNCVolume( const Path : String) : String
10626: Function ExtractFileRoot( FileName : String) : String
10627: Function GetDarwinSystemFilename( Filename : string) : string
10628: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10629: Function StrToCmdLineParam( const Param : string) : string
10630: Function MergeCmdLineParams( ParamList : TStrings) : string
10631: Procedure InvalidateFileStateCache( const Filename : string)
10632: Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10633: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10634: Function FindAllDocs(const Root, extmask: string): TStringlist;
10635: Function ReadFileToString( const Filename : string) : string
10636: procedure Incl(var X: longint; N: Longint);
10637:
10638: type
10639:   TCopyFileFlag = ( cffOverwriteFile,
10640:     cffCreateDestDirectory, cffPreserveTime );
10641:   TCopyFileFlags = set of TCopyFileFlag;*)
10642:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10643:   TCopyFileFlags', 'set of TCopyFileFlag
10644:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10645: end;
10646:
10647: procedure SIRegister_lazMasks(CL: TPPascalCompiler);
10648: begin
10649:   TMaskCharType', '( mcChar, mc CharSet, mcAnyChar, mcAnyText )
10650:   SIRegister_TMask(CL);
10651:   SIRegister_TParseStringList(CL);
10652:   SIRegister_TMaskList(CL);
10653:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Boolean
10654:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Bool;
10655:   Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10656:   Function MatchesWindowsMaskList(const FileName,Mask:String;Separat:Char;const CaseSensitive:Bool):Bool;
10657: end;
10658:
10659: procedure SIRegister_JvShellHook(CL: TPPascalCompiler);
10660: begin
10661:   //PShellHookInfo', '^TShellHookInfo // will not work
10662:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10663:   SHELLHOOKINFO', 'TShellHookInfo
10664:   LPSHELLHOOKINFO', 'PShellHookInfo
10665:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10666:   SIRegister_TJvShellHook(CL);
10667:   Function InitJvShellHooks : Boolean
10668:   Procedure UnInitJvShellHooks
10669: end;
10670:
10671: procedure SIRegister_JvExControls(CL: TPPascalCompiler);
10672: begin
10673:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10674:   +', dcHasSelSel, dcWantTab, dcNative )
10675:   TDlgCodes', 'set of TDlgCode

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10676: 'dcWantMessage',' dcWantAllKeys);
10677: SIRegister_IJvExControl(CL);
10678: SIRegister_IJvDenySubClassing(CL);
10679: SIRegister_TStructPtrMessage(CL);
10680: Procedure SetDotNetFrameColors( FocusedColor, UnfocusedColor : TColor)
10681: Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10682: Procedure DrawDotNetBar1( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10683: Procedure HandleDotNetHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10684: Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10685: Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10686: Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10687: Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10688: Function GetFocusedControl( AControl : TControl ) : TWInControl
10689: Function DlgCoDlCodes( Value : Longint ) : TDlgCodes
10690: Function DlgCodesToDlgs( Value : TDlgCodes ) : Longint
10691: Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10692: Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10693: SIRegister_TJvExControl(CL);
10694: SIRegister_TJvExWinControl(CL);
10695: SIRegister_TJvExCustomControl(CL);
10696: SIRegister_TJvExGraphicControl(CL);
10697: SIRegister_TJvExHintWindow(CL);
10698: SIRegister_TJvExPubGraphicControl(CL);
10699: end;
10700:
10701: (*-----*)
10702: procedure SIRegister_EncdDecd(CL: TPSPPascalCompiler);
10703: begin
10704: Procedure EncodeStream( Input, Output : TStream)
10705: Procedure DecodeStream( Input, Output : TStream)
10706: Function EncodeString1( const Input : string) : string
10707: Function DecodeString1( const Input : string) : string
10708: end;
10709:
10710: (*-----*)
10711: procedure SIRegister_SockAppReg(CL: TPSPPascalCompiler);
10712: begin
10713: SIRegister_TWebAppRegInfo(CL);
10714: SIRegister_TWebAppRegList(CL);
10715: Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10716: Procedure RegisterWebApp( const AFileName, AProgID : string)
10717: Procedure UnregisterWebApp( const AProgID : string)
10718: Function FindRegisteredWebApp( const AProgID : string) : string
10719: Function CreateRegistry( InitializeNewFile : Boolean) : TCustomIniFile
10720: 'sUDPPort','String 'UDPPort
10721: end;
10722:
10723: procedure SIRegister_PJEnvVars(CL: TPSPPascalCompiler);
10724: begin
10725: // TStringDynArray', 'array of string
10726: Function GetEnvVarValue( const VarName : string) : string
10727: Function SetEnvVarValue( const VarName, VarValue : string) : Integer
10728: Function DeleteEnvVar( const VarName : string) : Integer
10729: Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const BufSize:Int );
10730: Function ExpandEnvVars( const Str : string) : string
10731: Function GetAllEnvVars( const Vars : TStrings) : Integer
10732: Procedure GetAllEnvVarNames( const Names : TStrings);
10733: Function GetAllEnvVarNames1 : TStringDynArray;
10734: Function EnvBlockSize : Integer
10735: TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject)
10736: SIRegister_TPJEnvVarsEnumerator(CL);
10737: SIRegister_TPJEnvVars(CL);
10738: FindClass('TOBJECT'), 'EPJEnvVars
10739: FindClass('TOBJECT'), 'EPJEnvVars
10740: //Procedure Register
10741: end;
10742:
10743: (*-----*)
10744: procedure SIRegister_PJConsoleApp(CL: TPSPPascalCompiler);
10745: begin
10746: 'cOneSecInMS','LongInt'( 1000);
10747: // 'cDefTimeSlice','LongInt'( 50);
10748: // 'cDefMaxExecTime',' cOneMinInMS';
10749: 'cAppErrorMask','LongInt'( 1 shl 29);
10750: Function IsApplicationError( const ErrCode : LongWord) : Boolean
10751: TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10752: TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10753: Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor):TPJConsoleColors;
10754: Function MakeConsoleColors1( const AForeground, ABackground : TColor) : TPJConsoleColors;
10755: Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor) : TPJConsoleColors;
10756: Function MakeSize( const ACX, ACY : LongInt) : TSize
10757: SIRegister_TPJCustomConsoleApp(CL);
10758: SIRegister_TPJConsoleApp(CL);
10759: end;
10760:
10761: procedure SIRegister_ip_misc(CL: TPSPPascalCompiler);
10762: begin
10763: INVALID_IP_ADDRESS','LongWord').SetUInt( $ffffffff);

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10764: t_encoding', '( uuencode, base64, mime )
10765: Function internet_date( date : TDateTime ) : string
10766: Function lookup_hostname( const hostname : string ) : longint
10767: Function my_hostname : string
10768: Function my_ip_address : longint
10769: Function ip2string( ip_address : longint ) : string
10770: Function resolve_hostname( ip : longint ) : string
10771: Function address_from( const s : string; count : integer ) : string
10772: Function encode_base64( data : TStream ) : TStringList
10773: Function decode_base64( source : TStringList ) : TMemoryStream
10774: Function posn( const s, t : string; count : integer ) : integer
10775: Function poscn( c : char; const s : string; n : integer ) : integer
10776: Function filename_of( const s : string ) : string
10777: //Function trim( const s : string ) : string
10778: //Procedure setlength( var s : string; l : byte)
10779: Function TimeZoneBias : longint
10780: Function eight2seven_quoteprint( const s : string ) : string
10781: Function eight2seven_german( const s : string ) : string
10782: Function seven2eight_quoteprint( const s : string ) : string end;
10783: type in_addr', 'record s_bytes : array[1..4] of byte; end;
10784: Function socketerror : cint
10785: Function fpsocket( domain : cint; xtype : cint; protocol : cint ) : cint
10786: Function fprecv( s : cint; buf : __pointer; len : size_t; flags : cint ) : ssize_t
10787: Function fpSend( s : cint; msg : __pointer; len : size_t; flags : cint ) : ssize_t
10788: //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen ) : cint
10789: Function fplisten( s : cint; backlog : cint ) : cint
10790: //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint ) : cint
10791: //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen ) : cint
10792: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen ) : cint
10793: Function NetAddrToStr( Entry : in_addr ) : String
10794: Function HostAddrToStr( Entry : in_addr ) : String
10795: Function StrToHostAddr( IP : String ) : in_addr
10796: Function StrToNetAddr( IP : String ) : in_addr
10797: SOL_SOCKET', 'LongWord').SetUInt( $ffff );
10798: cint8', 'shortint
10799: cuint8', 'byte
10800: cchar', 'cint8
10801: cschar', 'cint8
10802: uchar', 'cuint8
10803: cint16', 'smallint
10804: cuint16', 'word
10805: cshort', 'cint16
10806: csshort', 'cint16
10807: cushort', 'cuint16
10808: cint32', 'longint
10809: cuint32', 'longword
10810: cint', 'cint32
10811: csint', 'cint32
10812: cuint', 'cuint32
10813: csigned', 'cint
10814: cunsigned', 'cuint
10815: cint64', 'int64
10816: clonglong', 'cint64
10817: cslonglong', 'cint64
10818: cbool', 'longbool
10819: cfloat', 'single
10820: cdouble', 'double
10821: clongdouble', 'extended
10822:
10823: procedure SIRegister_uLkJSON(CL: TPPSPascalCompiler);
10824: begin
10825:   TlkJSONTypes', '( jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10826:   SIRegister_TlkJSONdotnetclass(CL);
10827:   SIRegister_TlkJSONbase(CL);
10828:   SIRegister_TlkJSONnumber(CL);
10829:   SIRegister_TlkJSONstring(CL);
10830:   SIRegister_TlkJSONboolean(CL);
10831:   SIRegister_TlkJSONnull(CL);
10832:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Ele : TlkJSONba'
10833:     +'se; data : TObject; var Continue : Boolean)
10834:   SIRegister_TlkJSONcustomlist(CL);
10835:   SIRegister_TlkJSONlist(CL);
10836:   SIRegister_TlkJSONobjectmethod(CL);
10837:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10838:   TlkHashFunction', 'Function ( const ws : WideString ) : cardinal
10839:   SIRegister_TlkHashTable(CL);
10840:   SIRegister_TlkBalTree(CL);
10841:   SIRegister_TlkJSONobject(CL);
10842:   SIRegister_TlkJSON(CL);
10843:   SIRegister_TlkJSONstreamed(CL);
10844:   Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10845: end;
10846:
10847: procedure SIRegister_ZSysUtils(CL: TPPSPascalCompiler);
10848: begin
10849:   TZListSortCompare', 'Function ( Item1, Item2 : TObject): Integer
10850:   SIRegister_TZSortedlist(CL);
10851:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10852:   Function zLastDelimiter( const Delimiters, Str : string) : Integer

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10853: //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10854: //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10855: Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10856: Function StartsWithl( const Str, SubStr : RawByteString) : Boolean;
10857: Function EndsWithl( const Str, SubStr : WideString) : Boolean;
10858: Function EndsWithl( const Str, SubStr : RawByteString) : Boolean;
10859: Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10860: Function SQLStrToFloatDef( Str : String; Def : Extended) : Extended;
10861: Function SQLStrToFloat( const Str : AnsiString) : Extended;
10862: //Function BufferToStr( Buffer : PWideChar; Length : LongInt) : string;
10863: //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt) : string;
10864: Function BufferToBytes( Buffer : TObject; Length : LongInt) : TByteDynArray
10865: Function StrToBoolEx( Str : string) : Boolean
10866: Function BoolToStrEx( Bool : Boolean) : String
10867: Function IsIpAddr( const Str : string) : Boolean
10868: Function zSplitString( const Str, Delimiters : string) : TStrings
10869: Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10870: Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10871: Function ComposeString( List : TStrings; const Delimiter : string) : string
10872: Function FloatToSQLStr( Value : Extended) : string
10873: Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10874: Function SplitStringEx( const Str, Delimiter : string) : TStrings
10875: Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10876: Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10877: Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10878: Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10879: Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10880: Function StrToBytes3( const Value : WideString) : TByteDynArray;
10881: Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10882: Function BytesToVar( const Value : TByteDynArray) : Variant
10883: Function VarToBytes( const Value : Variant) : TByteDynArray
10884: Function AnsiSQLDateToDateTime( const Value : string) : TDateTime
10885: Function TimestampStrToDateTime( const Value : string) : TDateTime
10886: Function DateTimeToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10887: Function EncodeCString( const Value : string) : string
10888: Function DecodeCString( const Value : string) : string
10889: Function zReplaceChar( const Source, Target : Char; const Str : string) : string
10890: Function MemPas( Buffer : PChar; Length : LongInt) : string
10891: Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10892: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10893: Function FormatSQLVersion( const SQLVersion : Integer) : String
10894: Function ZStrToFloat( Value : AnsiChar) : Extended;
10895: Function ZStrToFloat1( Value : AnsiString) : Extended;
10896: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString);
10897: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10898: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String);
10899: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10900: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10901: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString);
10902: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);
10903: end;
10904:
10905: unit uPSI_ZEncoding;
10906: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word) : RawByteString
10907: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word) : String
10908: Function ZRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10909: Function ZUnicodeToRaw( const US : WideString; CP : Word) : RawByteString
10910: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10911: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10912: Function ZConvertAnsiToUTF8( const Src : AnsiString) : UTF8String
10913: Function ZConvertUTF8ToAnsi( const Src : UTF8String) : AnsiString
10914: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10915: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10916: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10917: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10918: Function ZConvertStringToRawWithAutoEncode(const Src:String;const StringCP,RawCP:Word):RawByteString;
10919: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word) : String
10920: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10921: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP: Word): UTF8String
10922: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10923: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP: Word): AnsiString
10924: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10925: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word) : String
10926: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word) : String
10927: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word) : WideString
10928: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word) : WideString
10929: Function ZConvertStringToUnicodeWithAutoEncode( const Src : String; const StringCP:Word):WideString
10930: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10931: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10932: Function ZMoveAnsiToUTF8( const Src : AnsiString) : UTF8String
10933: Function ZMoveUTF8ToAnsi( const Src : UTF8String) : AnsiString
10934: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10935: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10936: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10937: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10938: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10939: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString

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10940: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10941: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10942: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10943: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word ) : WideString
10944: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word ) : RawByteString
10945: Function ZDefaultSystemCodePage : Word
10946: Function ZCompatibleCodePages( const CP1, CP2 : Word ) : Boolean
10947:
10948:
10949: procedure SIRegister_BoldComUtils(CL: TPSPascalCompiler);
10950: begin
10951:   ('RPC_C_AUTHN_LEVEL_DEFAULT','LongInt'( 0 );
10952:   ('RPC_C_AUTHN_LEVEL_NONE','LongInt'( 1 );
10953:   ('RPC_C_AUTHN_LEVEL_CONNECT','LongInt'( 2 );
10954:   ('RPC_C_AUTHN_LEVEL_CALL','LongInt'( 3 );
10955:   ('RPC_C_AUTHN_LEVEL_PKT','LongInt'( 4 );
10956:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY','LongInt'( 5 );
10957:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY','LongInt'( 6 );
10958:   {'alDefault',1 RPC_C_AUTHN_LEVEL_DEFAULT};
10959:   {'alNone',2 RPC_C_AUTHN_LEVEL_NONE};
10960:   {'alConnect',3 RPC_C_AUTHN_LEVEL_CONNECT};
10961:   {'alCall',4 RPC_C_AUTHN_LEVEL_CALL};
10962:   {'alPacket',5 RPC_C_AUTHN_LEVEL_PKT};
10963:   {'alPacketIntegrity',6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY};
10964:   {'alPacketPrivacy',7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY};
10965:   ('RPC_C_IMP_LEVEL_DEFAULT','LongInt'( 0 );
10966:   ('RPC_C_IMP_LEVEL_ANONYMOUS','LongInt'( 1 );
10967:   ('RPC_C_IMP_LEVEL_IDENTIFY','LongInt'( 2 );
10968:   ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt'( 3 );
10969:   ('RPC_C_IMP_LEVEL_DELEGATE','LongInt'( 4 );
10970:   {'ilDefault',0 RPC_C_IMP_LEVEL_DEFAULT};
10971:   {'ilAnonymous',1 RPC_C_IMP_LEVEL_ANONYMOUS};
10972:   {'ilIdentiry',2 RPC_C_IMP_LEVEL_IDENTIFY};
10973:   {'ilImpersonate',3 RPC_C_IMP_LEVEL_IMPERSONATE};
10974:   {'ilDelegate',4 RPC_C_IMP_LEVEL_DELEGATE};
10975:   ('EOAC_NONE','LongWord').SetUInt( $0 );
10976:   ('EOAC_DEFAULT','LongWord').SetUInt( $800 );
10977:   ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1 );
10978:   ('EOAC_STATIC_CLOAKING','LongWord').SetUInt( $20 );
10979:   ('EOAC_DYNAMIC_CLOAKING','LongWord').SetUInt( $40 );
10980:   ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80 );
10981:   ('RPC_C_AUTHN_WINNT','LongInt'( 10 );
10982:   ('RPC_C_AUTHNZ_NONE','LongInt'( 0 );
10983:   ('RPC_C_AUTHNZ_NAME','LongInt'( 1 );
10984:   ('RPC_C_AUTHNZ_DCE','LongInt'( 2 );
10985:   FindClass('TOBJECT'),'EBoldCom
10986: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer ) : Boolean
10987: Function BoldMemoryToVariant( const Buffer, BufSize : Integer ) : OleVariant
10988: Function BoldStreamToVariant( Stream : TStream ) : OleVariant
10989: Function BoldStringsToVariant( Strings : TStrings ) : OleVariant
10990: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer ) : Integer
10991: Function BoldVariantToStream( V : OleVariant; Stream : TStream ) : Integer
10992: Function BoldVariantArrayOfArraysOfStringToStrings( V : OleVariant; Strings : TStrings ) : Integer
10993: Function BoldVariantIsNamedValues( V : OleVariant ) : Boolean
10994: Function BoldCreateNamedValues( const Names:array of string;const Values:array of OleVariant):OleVariant;
10995: Function BoldGetNamedValue( Data : OleVariant; const Name : string ) : OleVariant
10996: Procedure BoldSetValue( Data : OleVariant; const Name : string; Value : OleVariant )
10997: Function BoldCreateGUID : TGUID
10998: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult ) : Boolean
10999: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out Res:HRes):Bool;
11000: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint )
11001: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown );
11002: end;
11003:
11004: (*-----*)
11005: procedure SIRegister_BoldIsoDateTime(CL: TPSPascalCompiler);
11006: begin
11007:   Function ParseISODate( s : string ) : TDateTime
11008:   Function ParseISODateTime( s : string ) : TDateTime
11009:   Function ParseISOTime( str : string ) : TDateTime
11010: end;
11011:
11012: (*-----*)
11013: procedure SIRegister_BoldGUIDUtils(CL: TPSPascalCompiler);
11014: begin
11015:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
11016:   Function BoldCreateGUIDWithBracketsAsString : string
11017: end;
11018:
11019: procedure SIRegister_BoldFileHandler(CL: TPSPascalCompiler);
11020: begin
11021:   FindClass('TOBJECT'),'TBoldFileHandler
11022:   FindClass('TOBJECT'),'TBoldDiskFileHandler
11023:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
11024:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
11025:   SIRegister_TBoldFileHandler(CL);
11026:   SIRegister_TBoldDiskFileHandler(CL);
11027:   Procedure BoldCloseAllFilehandlers

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

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11110: THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11111: THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11112: THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11113: TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11114: TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11115: TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11116: TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11117: TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11118: TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11119: TMatrix4b', 'THomogeneousByteMatrix
11120: TMatrix4w', 'THomogeneousWordMatrix
11121: TMatrix4i', 'THomogeneousIntMatrix
11122: TMatrix4f', 'THomogeneousFltMatrix
11123: TMatrix4d', 'THomogeneousDblMatrix
11124: TMatrix4e', 'THomogeneousExtMatrix
11125: TMatrix3b', 'TAffineByteMatrix
11126: TMatrix3w', 'TAffineWordMatrix
11127: TMatrix3i', 'TAffineIntMatrix
11128: TMatrix3f', 'TAffineFltMatrix
11129: TMatrix3d', 'TAffineDblMatrix
11130: TMatrix3e', 'TAffineExtMatrix
11131: //'PMatrix', '^TMatrix // will not work
11132: TMatrixGL', 'THomogeneousFltMatrix
11133: THomogeneousMatrix', 'THomogeneousFltMatrix
11134: TAffineMatrix', 'TAffineFltMatrix
11135: TQuaternion', 'record Vector : TVector4f; end
11136: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11137: +'ger; Height : Integer; end
11138: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear
11139: +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11140: +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11141: 'EPSILON', 'Extended').setExtended( 1E-100 );
11142: 'EPSILON2', 'Extended').setExtended( 1E-50 );
11143: Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11144: Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11145: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11146: Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11147: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single ) : TAffineVector
11148: Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11149: Function VectorAngle( V1, V2 : TAffineVector ) : Single
11150: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11151: Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11152: Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11153: Function VectorLength( V : array of Single ) : Single
11154: Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11155: Procedure VectorNegate( V : array of Single )
11156: Function VectorNorm( V : array of Single ) : Single
11157: Function VectorNormalize( V : array of Single ) : Single
11158: Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11159: Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11160: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single )
11161: Procedure VectorScale( V : array of Single; Factor : Single )
11162: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11163: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11164: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11165: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11166: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11167: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11168: Procedure MatrixAdjoint( var M : TMatrixGL )
11169: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11170: Procedure MatrixAffineTranspose( var M : TAffineMatrix )
11171: Function MatrixDeterminant( M : TMatrixGL ) : Single
11172: Procedure MatrixInvert( var M : TMatrixGL )
11173: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11174: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11175: Procedure MatrixTranspose( var M : TMatrixGL )
11176: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11177: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion
11178: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11179: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11180: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11181: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
11182: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11183: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11184: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11185: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11186: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11187: Function VectorTransformI( V : TVector3f; M : TMatrixGL ) : TVector3f;
11188: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11189: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11190: Function MakeAffineVector( V : array of Single ) : TAffineVector
11191: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11192: Function MakeVector( V : array of Single ) : TVectorGL
11193: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11194: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11195: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11196: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11197: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11198: Function ArcCosGL( X : Extended ) : Extended

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11199: Function ArcSinGL( X : Extended ) : Extended
11200: Function ArcTan2GL( Y, X : Extended ) : Extended
11201: Function CoTanGL( X : Extended ) : Extended
11202: Function DegToRadGL( Degrees : Extended ) : Extended
11203: Function RadToDegGL( Radians : Extended ) : Extended
11204: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11205: Function TanGL( X : Extended ) : Extended
11206: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11207: Function Turnl( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11208: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11209: Function Pitchl( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11210: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11211: Function Rolll( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11212: end;
11213:
11214:
11215: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11216: begin
11217:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11218:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11219:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11220:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11221:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11222:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11223:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11224:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11225:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11226:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11227:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11228:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11229:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11230:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11231:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11232:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11233:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11234:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11235:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11236:   AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11237:             +'RunOnce, ekServiceRun, ekServiceRunOnce )'
11238:             +AddClassN(FindClass('TOBJECT'), 'EJclRegistryError'
11239:             Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11240:             Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11241:             Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
11242: Items:TStrings):Bool;
11243:             Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
11244: SaveTo:TStrings):Bool;
11245:             Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11246: end;
11247: begin
11248:   CLSID_StdComponentCategoriesMgr', 'TGUID '{0002E005-0000-0000-C000-000000000046}
11249:   CATID_SafeForInitializing', 'TGUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11250:   CATID_SafeForScripting', 'TGUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11251:   icMAX_CATEGORY_DESC_LEN', 'LongInt'{ 128};
11252:   FindClass('TOBJECT'), 'EInvalidParam
11253:   Function IsDCOMInstalled : Boolean
11254:   Function IsDCOMEnabled : Boolean
11255:   Function GetDCOMVersion : string
11256:   Function GetMDACVersion : string
11257:   Function GetMDACVersion2 : string
11258:   Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11259: VarArray:OleVariant):HRESULT;
11260:   Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var stm:IStream):HRESULT;
11261:   Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11262: VarArray:OleVariant):HRESULT;
11263:   Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream):HRESULT;
11264:   Function MarshalInterMachineInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11265: VarArray:OleVariant):HRESULT;
11266:   Function CreateComponentCategory( const CatID : TGUID; const sDescription : string ) : HRESULT
11267:   Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HRESULT
11268:   Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HRESULT
11269:   Function ResetIStreamToStart( Stream : IStream ) : Boolean
11270:   Function SizeOfIStreamContents( Stream : IStream ) : Largeint
11271:   Function StreamToVariantArray( Stream : TStream ) : OleVariant;
11272:   Function StreamToVariantArrayl( Stream : IStream ) : OleVariant;
11273:   Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream );
11274:   Procedure VariantArrayToStreaml( VarArray : OleVariant; var Stream : IStream );
11275: end;
11276: begin
11277:   Const ('CelsiusFreezingPoint','Extended').setExtended( 0.0 );
11278:   FahrenheitFreezingPoint','Extended').setExtended( 32.0 );
11279:   KelvinFreezingPoint','Extended').setExtended( 273.15 );
11280:   CelsiusAbsoluteZero','Extended').setExtended( - 273.15 );
11281:   FahrenheitAbsoluteZero','Extended').setExtended( - 459.67 );
11282:   KelvinAbsoluteZero','Extended').setExtended( 0.0 );

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11283: DegPerCycle', 'Extended').setExtended( 360.0);
11284: DegPerGrad', 'Extended').setExtended( 0.9);
11285: DegPerRad', 'Extended').setExtended( 57.295779513082320876798154814105);
11286: GradPerCycle', 'Extended').setExtended( 400.0);
11287: GradPerDeg', 'Extended').setExtended( 1.11111111111111111111111111111111);
11288: GradPerRad', 'Extended').setExtended( 63.661977236758134307553505349006);
11289: RadPerCycle', 'Extended').setExtended( 6.283185307179586476925286766559);
11290: RadPerDeg', 'Extended').setExtended( 0.017453292519943295769236907684886);
11291: RadPerGrad', 'Extended').setExtended( 0.015707963267948966192313216916398);
11292: CyclePerDeg', 'Extended').setExtended( 0.0027777777777777777777777777777778);
11293: CyclePerGrad', 'Extended').setExtended( 0.0025);
11294: CyclePerRad', 'Extended').setExtended( 0.15915494309189533576888376337251);
11295: ArcMinutesPerDeg', 'Extended').setExtended( 60.0);
11296: ArcSecondsPerArcMinute', 'Extended').setExtended( 60.0);
11297: Function HowAOneLinerCanBiteYou( const Step, Max : Longint) : Longint
11298: Function MakePercentage( const Step, Max : Longint) : Longint
11299: Function CelsiusToKelvin( const T : double) : double
11300: Function CelsiusToFahrenheit( const T : double) : double
11301: Function KelvinToCelsius( const T : double) : double
11302: Function KelvinToFahrenheit( const T : double) : double
11303: Function FahrenheitToCelsius( const T : double) : double
11304: Function FahrenheitToKelvin( const T : double) : double
11305: Function CycleToDeg( const Cycles : double) : double
11306: Function CycleToGrad( const Cycles : double) : double
11307: Function CycleToRad( const Cycles : double) : double
11308: Function DegToCycle( const Degrees : double) : double
11309: Function DegToGrad( const Degrees : double) : double
11310: Function DegToRad( const Degrees : double) : double
11311: Function GradToCycle( const Grads : double) : double
11312: Function GradToDeg( const Grads : double) : double
11313: Function GradToRad( const Grads : double) : double
11314: Function RadToCycle( const Radians : double) : double
11315: Function RadToDeg( const Radians : double) : double
11316: Function RadToGrad( const Radians : double) : double
11317: Function DmsToDeg( const D, M : Integer; const S : double) : double
11318: Function DmsToRad( const D, M : Integer; const S : double) : double
11319: Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double)
11320: Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal) : string
11321: Procedure CartesianToPolar( const X, Y : double; out R, Phi : double)
11322: Procedure PolarToCartesian( const R, Phi : double; out X, Y : double)
11323: Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double)
11324: Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double)
11325: Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double)
11326: Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double)
11327: Function CmToInch( const Cm : double) : double
11328: Function InchToCm( const Inch : double) : double
11329: Function FeetToMetre( const Feet : double) : double
11330: Function MetreToFeet( const Metre : double) : double
11331: Function YardToMetre( const Yard : double) : double
11332: Function MetreToYard( const Metre : double) : double
11333: Function NmToKm( const Nm : double) : double
11334: Function KmToNm( const Km : double) : double
11335: Function KmToSm( const Km : double) : double
11336: Function SmToKm( const Sm : double) : double
11337: Function LitreToGalUs( const Litre : double) : double
11338: Function GalUsToLitre( const GalUs : double) : double
11339: Function GalUsToGalCan( const GalUs : double) : double
11340: Function GalCanToGalUs( const GalCan : double) : double
11341: Function GalUsToGalUk( const GalUs : double) : double
11342: Function GalUkToGalUs( const GalUk : double) : double
11343: Function LitreToGalCan( const Litre : double) : double
11344: Function GalCanToLitre( const GalCan : double) : double
11345: Function LitreToGalUk( const Litre : double) : double
11346: Function GalUkToLitre( const GalUk : double) : double
11347: Function KgToLb( const Kg : double) : double
11348: Function LbToKg( const Lb : double) : double
11349: Function KgToOz( const Kg : double) : double
11350: Function OzToKg( const Oz : double) : double
11351: Function CwtUsToKg( const Cwt : double) : double
11352: Function CwtUkToKg( const Cwt : double) : double
11353: Function KaratToKg( const Karat : double) : double
11354: Function KgToCwtUs( const Kg : double) : double
11355: Function KgToCwtUk( const Kg : double) : double
11356: Function KgToKarat( const Kg : double) : double
11357: Function KgToSton( const Kg : double) : double
11358: Function KgToLton( const Kg : double) : double
11359: Function StonToKg( const STon : double) : double
11360: Function LtonToKg( const Lton : double) : double
11361: Function QrUsToKg( const Qr : double) : double
11362: Function QrUkToKg( const Qr : double) : double
11363: Function KgToQrUs( const Kg : double) : double
11364: Function KgToQrUk( const Kg : double) : double
11365: Function PascalToBar( const Pa : double) : double
11366: Function PascalToAt( const Pa : double) : double
11367: Function PascalToTorr( const Pa : double) : double
11368: Function BarToPascal( const Bar : double) : double
11369: Function AtToPascal( const At : double) : double
11370: Function TorrToPascal( const Torr : double) : double
11371: Function KnotToMs( const Knot : double) : double

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11372: Function HpElectricToWatt( const HpE : double ) : double
11373: Function HpMetricToWatt( const HpM : double ) : double
11374: Function MsToKnot( const ms : double ) : double
11375: Function WattToHpElectric( const W : double ) : double
11376: Function WattToHpMetric( const W : double ) : double
11377: function getBigPI: string; //PI of 1000 numbers
11378:
11379: procedure SIRegister_devutils(CL: TPSPPascalCompiler);
11380: begin
11381:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
11382:   Procedure CDCopyFile( const FileName, DestName : string )
11383:   Procedure CDMoveFile( const FileName, DestName : string )
11384:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor ) : TColor
11385:   Procedure CDDeleteFiles( Sender : TObject; s : string )
11386:   Function CDGetTempDir : string
11387:   Function CDGetFileSize( FileName : string ) : longint
11388:   Function GetfileTime( FileName : string ) : longint
11389:   Function GetShortName( FileName : string ) : string
11390:   Function GetFullName( FileName : string ) : string
11391:   Function WinReboot : boolean
11392:   Function WinDir : string
11393:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean ) : cardinal
11394:   Function Runfile_( Cmd, WorkDir : string; Wait : boolean ) : Boolean
11395:   Function devExecutor : TdevExecutor
11396: end;
11397:
11398: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11399: begin
11400:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7 );
11401:   Procedure Associate( Index : integer )
11402:   Procedure UnAssociate( Index : integer )
11403:   Function IsAssociated( Index : integer ) : boolean
11404:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string ) : boolean
11405:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string )
11406:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string )
11407:   procedure RefreshIcons;
11408:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11409:   function MergColor(Colors: Array of TColor): TColor;
11410:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11411:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11412:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11413:   function GetInverseColor(AColor: TColor): TColor;
11414:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11415:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer;ShadowColor: TColor);
11416:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11417:   Procedure GetSystemMenuFont(Font: TFont);
11418: end;
11419:
11420: //*****unit uPSI_JvHLParse;*****
11421: function IsStringConstant(const St: string): Boolean;
11422: function IsIntConstant(const St: string): Boolean;
11423: function IsRealConstant(const St: string): Boolean;
11424: function IsIdentifier(const ID: string): Boolean;
11425: function GetStringValue(const St: string): string;
11426: procedure ParseString(const S: string; Ss: TStrings);
11427: function IsStringConstantW(const St: WideString): Boolean;
11428: function IsIntConstantW(const St: WideString): Boolean;
11429: function IsRealConstantW(const St: WideString): Boolean;
11430: function IsIdentifierW(const ID: WideString): Boolean;
11431: function GetStringValueW(const St: WideString): WideString;
11432: procedure ParseStringW(const S: WideString; Ss: TStrings);
11433:
11434:
11435: //*****unit uPSI_JclMapi;*****
11436:
11437: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11438: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11439: Function JclSimpleBringUpSendMailDialog(const ASubject, ABody:string;const AAttach:TFileName;AParentWND:HWND):Bool
11440: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11441: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11442:
11443: procedure SIRegister_IdNTLM(CL: TPSPPascalCompiler);
11444: begin
11445:   //Pdes_key_schedule', '^des_key_schedule // will not work
11446:   Function BuildType1Message( ADomain, AHost : String ) : String
11447:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11448:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass )
11449:   Function FindAuthClass( AuthName : String ) : TIIdAuthenticationClass
11450:   GBBase64CodeTable', 'string'ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
11451:   GXXECodeTable', 'string`+0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789@#%$&`()*)+,-./0123456789:;<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_
11452:   GUUECodeTable', 'string`^!#$%&`()*)+,-./0123456789:;<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_
11453: end;
11454:
11455: procedure SIRegister_WDosSocketUtils(CL: TPSPPascalCompiler);
11456: begin
11457:   ('IpAny', 'LongWord').SetUIInt( $00000000 );

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11458: IpLoopBack', 'LongWord').SetUInt( $7F000001);
11459: IpBroadcast', 'LongWord').SetUInt( $FFFFFFFF);
11460: IpNone', 'LongWord').SetUInt( $FFFFFFFF);
11461: PortAny', 'LongWord( $0000);
11462: SocketMaxConnections', 'LongInt'( 5);
11463: TIpAddr', 'LongWord
11464: TIpRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11465: Function HostToNetLong( HostLong : LongWord) : LongWord
11466: Function HostToNetShort( HostShort : Word) : Word
11467: Function NetToHostLong( NetLong : LongWord) : LongWord
11468: Function NetToHostShort( NetShort : Word) : Word
11469: Function StrToIp( Ip : string) : TIpAddr
11470: Function IpToStr( Ip : TIpAddr) : string
11471: end;
11472:
11473: (*-----*)
11474: procedure SIRegister_ALSMTPClient(CL: TPSPascalCompiler);
11475: begin
11476:   TAISmtClientAuthType', '( AlsmtClientAuthNone, alsmtClientAuth'
11477:   +'hPlain, AlsmtClientAuthLogin, AlsmtClientAuthCramMD5, AlsmtClientAuthCr'
11478:   +'amShal, AlsmtClientAuthAutoSelect )
11479:   TAISmtClientAuthTypeSet', 'set of TAISmtClientAuthType
11480:   SIRegister_TAISmtClient(CL);
11481: end;
11482:
11483: procedure SIRegister_WDOSPlcUtils(CL: TPSPascalCompiler);
11484: begin
11485:   'TBitNo', 'Integer
11486:   TStByteNo', 'Integer
11487:   TStationNo', 'Integer
11488:   TInOutNo', 'Integer
11489:   TIO', '( EE, AA, NE, NA )
11490:   TBitSet', 'set of TBitNo
11491:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11492:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11493:   TBitAddr', 'LongInt
11494:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11495:   TByteAddr', 'SmallInt
11496:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11497:   Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11498:   Function BusBitAddr(aIo:TIO;aInoutNo:TInOutNo;aStat:TStatNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11499:   Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInoutNo:TInOutNo;var aByteNo:Byte;var
aBitNo:TBitNo);
11500:   Function BitAddrToStr( Value : TBitAddr) : string
11501:   Function StrToBitAddr( const Value : string) : TBitAddr
11502:   Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte) : TByteAddr
11503:   Function BusByteAddr(aIo:TIO;aInoutNo:TInOutNo;aStation:TStationNo;aStByteNo:TStByteNo):TByteAddr
11504:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInoutNo:TInOutNo;var aByteNo:Byte)
11505:   Function ByteAddrToStr( Value : TByteAddr) : string
11506:   Function StrToByteAddr( const Value : string) : TByteAddr
11507:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer)
11508:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer)
11509:   Function InOutStateToStr( State : TInOutState) : string
11510:   Function MasterErrorToStr( ErrorCode : TErrorCode) : string
11511:   Function SlaveErrorToStr( ErrorCode : TErrorCode) : string
11512: end;
11513:
11514: procedure SIRegister_WDOSTimers(CL: TPSPascalCompiler);
11515: begin
11516:   TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048,
11517:   +'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11518:   Dpm1PmVector', 'Int64
11519:   'DInterval','LongInt'( 1000);
11520:   // 'DEnabled','Boolean')BoolToStr( True);
11521:   'DIntFreq','string' if64
11522:   // 'DMessages','Boolean if64';
11523:   SIRegister_TwdxCustomTimer(CL);
11524:   SIRegister_TwdxTimer(CL);
11525:   SIRegister_TwdxRtcTimer(CL);
11526:   SIRegister_TCustonIntTimer(CL);
11527:   SIRegister_TIntTimer(CL);
11528:   SIRegister_TRtcIntTimer(CL);
11529:   Function RealNow : TDateTime
11530:   Function MsToDateTIme( Millisecond : LongInt) : TDateTime
11531:   Function DateTImeToMs( Time : TDateTime) : LongInt
11532: end;
11533:
11534: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11535: begin
11536:   TIIdSyslogPRI', 'Integer
11537:   TIIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11538:   +'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11539:   +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11540:   +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11541:   +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11542:   TIIdSyslogSeverity', '(slEmergency, slAlert, slCritical, slError, slWarning, slNotice, slInformational, slDebug)
11543:   SIRegister_TIIdSysLogMsgPart(CL);
11544:   SIRegister_TIIdSysLogMessage(CL);
11545:   Function FacilityToString( AFac : TIIdSyslogFacility) : string

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11546: Function SeverityToString( ASec : TIdSyslogSeverity ) : string
11547: Function NoToSeverity( ASev : Word ) : TIdSyslogSeverity
11548: Function logSeverityToNo( ASev : TIdSyslogSeverity ) : Word
11549: Function NoToFacility( AFac : Word ) : TIdSyslogFacility
11550: Function logFacilityToNo( AFac : TIdSyslogFacility ) : Word
11551: end;
11552:
11553: procedure SIRegister_TextUtils(CL: TPPascalCompiler);
11554: begin
11555:   'UWhitespace', 'String '(?:\s*)
11556:   Function StripSpaces( const AText : string ) : string
11557:   Function CharCount( const AText : string; Ch : Char ) : Integer
11558:   Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11559:   Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11560: end;
11561:
11562:
11563: procedure SIRegister_ExtPascalUtils(CL: TPPascalCompiler);
11564: begin
11565:   ExtPascalVersion', 'String '0.9.8
11566:   AddTypeS('TBrower', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11567:     +'Opera, brKonqueror, brMobileSafari )
11568:   AddTypes('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11569:   AddTypes('TExtProcedure', 'Procedure
11570:   Function DetermineBrowser( const UserAgentStr : string ) : TBrower
11571:   Function ExtExtract( const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool ):bool;
11572:   Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11573:   Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11574:   Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11575:   Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11576:   Function StrToJS( const S : string; UseBR : boolean ) : string
11577:   Function CaseOf( const S : string; const Cases : array of string ) : integer
11578:   Function RCaseOf( const S : string; const Cases : array of string ) : integer
11579:   Function EnumToJSString( TypeInfo : PTypeInfo; Value : integer ) : string
11580:   Function SetPaddings( Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool ):string;
11581:   Function SetMargins( Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool ): string;
11582:   Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11583:   Function IsUpperCase( S : string ) : boolean
11584:   Function BeautifyJS( const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11585:   Function BeautifyCSS( const AStyle : string ) : string
11586:   Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11587:   Function JSDateToDate( JSDate : string ) : TDate
11588: end;
11589:
11590: procedure SIRegister_JclShell(CL: TPPascalCompiler);
11591: begin
11592:   TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11593:   TSHDeleteOptions', 'set of TSHDeleteOption
11594:   TSHRenameOption', '( roSilent, roRenameOnCollision )
11595:   TSHRenameOptions', 'set of TSHRenameOption
11596:   Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11597:   Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11598:   Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11599:   TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11600:   TEnumFolderFlags', 'set of TEnumFolderFlag
11601:   TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11602:     +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11603:     +'IEnumIdList; Folder : IShellFolder; end
11604:   Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11605:   Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11606:   Procedure SHEnumFolderClose( var F : TEnumFolderRec )
11607:   Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11608:   Function GetSpecialFolderLocation( const Folder : Integer ) : string
11609:   Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11610:   Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11611:   Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11612:   Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11613:   Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11614:   Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean
11615:   Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11616:   Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11617:   Function SHFreeMem( var P : Pointer ) : Boolean
11618:   Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PItemIdList
11619:   Function PathToPidl( const Path : string; Folder : IShellFolder ) : PItemIdList
11620:   Function PathToPidlBind( const FileList : string; out Folder : IShellFolder ) : PItemIdList
11621:   Function PidlBindToParent( const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList ):Bool;
11622:   Function PidlCompare( const Pid1, Pid2 : PItemIdList ) : Boolean
11623:   Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList ) : Boolean
11624:   Function PidlFree( var IdList : PItemIdList ) : Boolean
11625:   Function PidlGetDepth( const Pidl : PItemIdList ) : Integer
11626:   Function PidlGetLength( const Pidl : PItemIdList ) : Integer
11627:   Function PidlGetNext( const Pidl : PItemIdList ) : PItemIdList
11628:   Function PidlToPath( IdList : PItemIdList ) : string
11629:   Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11630:   Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11631:   PShellLink', '^TShellLink // will not work
11632:   TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11633:     +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11634:     +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end

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11635: Procedure ShellLinkFree( var Link : TShellLink)
11636: Function ShellLinkResolve( const FileName : string; var Link : TShellLink) : HRESULT
11637: Function ShellLinkCreate( const Link : TShellLink; const FileName : string) : HRESULT
11638: Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11639: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon) : Boolean
11640: Function SHDllGetVersion( const FileName : string; var Version : TDllVersionInfo) : Boolean
11641: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal) : HICON
11642: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean) : Boolean
11643: Function OverlayIconShortCut( var Large, Small : HICON) : Boolean
11644: Function OverlayIconShared( var Large, Small : HICON) : Boolean
11645: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList) : string
11646: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11647: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11648: Function ShellExecAndWait(const FileName:string;const Params: string;const Verb:string;CmdShow:Int):Bool;
11649: Function ShellOpenAs( const FileName : string) : Boolean
11650: Function ShellRasDial( const EntryName : string) : Boolean
11651: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11652: Function GetFileNameIcon( const FileName : string; Flags : Cardinal) : HICON
11653: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )'
11654: Function GetFileExeType( const FileName : TFileName ) : TJclFileExeType
11655: Function ShellFindExecutable( const FileName, DefaultDir : string ) : string
11656: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD)
11657: Function OemKeyScan( wOemChar : Word) : DWORD
11658: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD)
11659: end;
11660:
11661: procedure SIRegister_cXMLFunctions(CL: TPSPascalCompiler);
11662: begin
11663:   xmlVersion', 'String '1.0 FindClass('TOBJECT'),'Exml
11664:   //Function xmlValidChar( const Ch : AnsiChar) : Boolean;
11665:   Function xmlValidChar1( const Ch : UCS4Char ) : Boolean;
11666:   Function xmlValidChar2( const Ch : WideChar ) : Boolean;
11667:   Function xmlIsSpaceChar( const Ch : WideChar ) : Boolean;
11668:   Function xmlIsLetter( const Ch : WideChar ) : Boolean;
11669:   Function xmlIsDigit( const Ch : WideChar ) : Boolean;
11670:   Function xmlIsNameStartChar( const Ch : WideChar ) : Boolean;
11671:   Function xmlIsNameChar( const Ch : WideChar ) : Boolean;
11672:   Function xmlIsPubidChar( const Ch : WideChar ) : Boolean;
11673:   Function xmlIsValidName( const Text : UnicodeString ) : Boolean;
11674:   //xmlSpace', 'Char #$20 or #$9 or #$D or #$A';
11675:   //Function xmlSkipSpace( var P : PWideChar ) : Boolean;
11676:   //Function xmlSkipEq( var P : PWideChar ) : Boolean;
11677:   //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString ) : Boolean;
11678:   //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer )
11679:   : TUnicodeCodeClass
11680:   Function xmlResolveEntityReference( const RefName : UnicodeString ) : WideChar;
11681:   Function xmlTag( const Tag : UnicodeString ) : UnicodeString;
11682:   Function xmlEndTag( const Tag : UnicodeString ) : UnicodeString;
11683:   Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString ) : UnicodeString;
11684:   Procedure xmlSafeTextInPlace( var Txt : UnicodeString );
11685:   Function xmlSafeText( const Txt : UnicodeString ) : UnicodeString;
11686:   Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer ) : UnicodeString;
11687:   Function xmlTabIndent( const IndentLevel : Integer ) : UnicodeString;
11688:   Function xmlComment( const Comment : UnicodeString ) : UnicodeString;
11689:   Procedure SelfTestcXMLFunctions
11690: end;
11691:
11692: (*-----*)
11693: procedure SIRegister_DepWalkUtils(CL: TPSPascalCompiler);
11694: begin
11695:   Function AWaitCursor : IUnknown;
11696:   Function ChangeCursor( NewCursor : TCursor ) : IUnknown;
11697:   Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean );
11698:   Function YesNo( const ACaption, AMsg : string ) : boolean;
11699:   Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings );
11700:   Function GetBorlandLibPath( Version : integer; ForDelphi : boolean ) : string;
11701:   Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean ) : string;
11702:   Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings );
11703:   Procedure GetSystemPaths( Strings : TStrings );
11704:   Procedure MakeEditNumeric( EditHandle : integer );
11705: end;
11706:
11707: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11708: begin
11709:   AddTypeS('TVideoCodec', '(vcUnknown,vcRGB,vcUYV2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11710:   'BI_YUY2','LongWord( $32595559 );
11711:   'BI_UYVY','LongWord').SetUIInt( $59565955 );
11712:   'BI_BTYUV','LongWord').SetUIInt( $50313459 );
11713:   'BI_YVU9','LongWord').SetUIInt( $39555659 );
11714:   'BI_YUV12','LongWord( $30323449 );
11715:   'BI_Y8','LongWord').SetUInt( $20203859 );
11716:   'BI_Y211','LongWord').SetUIInt( $31313259 );
11717:   Function BICompressionToVideoCodec( Value : DWord ) : TVideoCodec;
11718:   Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11719: end;
11720:
11721: (*-----*)
11722: procedure SIRegister_AviCap(CL: TPSPascalCompiler);

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11723: begin
11724:   'WM_USER','LongWord').SetUInt( $0400);
11725:   'WM_CAP_START','LongWord').SetUInt($0400);
11726:   'WM_CAP_END','longword').SetUInt($0400+85);
11727: //WM_CAP_START+ 85
11728: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11729: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11730: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11731: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11732: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11733: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11734: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11735: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11736: Function capSetUserData( hwnd : THandle; lUser : LongInt) : LongInt
11737: Function capGetUserData( hwnd : THandle) : LongInt
11738: Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11739: Function capDriverDisconnect( hwnd : THandle) : LongInt
11740: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11741: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11742: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11743: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11744: Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11745: Function capfileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11746: Function capfileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11747: Function capfileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt) : LongInt
11748: Function capFileSaveDIB( hwnd : THandle; szName : LongInt) : LongInt
11749: Function capEditCopy( hwnd : THandle) : LongInt
11750: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11751: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11752: Function capGetAudioFormatSize( hwnd : THandle) : LongInt
11753: Function capDlgVideoFormat( hwnd : THandle) : LongInt
11754: Function capDlgVideoSource( hwnd : THandle) : LongInt
11755: Function capDlgVideoDisplay( hwnd : THandle) : LongInt
11756: Function capDlgVideoCompression( hwnd : THandle) : LongInt
11757: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11758: Function capGetVideoFormatSize( hwnd : THandle) : LongInt
11759: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11760: Function capPreview( hwnd : THandle; f : Word) : LongInt
11761: Function capPreviewRate( hwnd : THandle; wMS : Word) : LongInt
11762: Function capOverlay( hwnd : THandle; f : Word) : LongInt
11763: Function capPreviewScale( hwnd : THandle; f : Word) : LongInt
11764: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11765: Function capSetScrollPos( hwnd : THandle; lpP : LongInt) : LongInt
11766: Function capGrabFrame( hwnd : THandle) : LongInt
11767: Function capGrabFrameNoStop( hwnd : THandle) : LongInt
11768: Function capCaptureSequence( hwnd : THandle) : LongInt
11769: Function capCaptureSequenceNoFile( hwnd : THandle) : LongInt
11770: Function capCaptureStop( hwnd : THandle) : LongInt
11771: Function capCaptureAbort( hwnd : THandle) : LongInt
11772: Function capCaptureSingleFrameOpen( hwnd : THandle) : LongInt
11773: Function capCaptureSingleFrameClose( hwnd : THandle) : LongInt
11774: Function capCaptureSingleFrame( hwnd : THandle) : LongInt
11775: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11776: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11777: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt) : LongInt
11778: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11779: Function capPaletteOpen( hwnd : THandle; szName : LongInt) : LongInt
11780: Function capPaletteSave( hwnd : THandle; szName : LongInt) : LongInt
11781: Function capPalettePaste( hwnd : THandle) : LongInt
11782: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt) : LongInt
11783: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt) : LongInt
11784: //PCapDriverCaps', '^TCapDriverCaps // will not work
11785: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11786: +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11787: +'y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid'
11788: +'eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11789: //PCapStatus', '^TCapStatus // will not work
11790: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11791: +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOIN'
11792: +'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapfileExists : BO'
11793: +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11794: +'rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11795: +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD;'
11796: +' wNumAudioAllocated : WORD; end
11797: //PCaptureParms', '^TCaptureParms // will not work
11798: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11799: +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11800: +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11801: +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11802: +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11803: +'ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11804: +'WMCIStartTime : DWORD; dwMCICount : DWORD; fStepCaptureAt2x : BOOL; wSt'
11805: +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11806: +'he : BOOL; AVStreamMaster : WORD; end
11807: // PCapInfoChunk', '^TCapInfoChunk // will not work
11808: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11809: 'CONTROLCALLBACK_PREROLL','LongInt'( 1);
11810: 'CONTROLCALLBACK_CAPTURING','LongInt'( 2);
11811: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer) : THandle

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11812: Function
11813:   capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11814:   'IDS_CAP_BEGIN','LongInt'( 300);
11815:   'IDS_CAP_END','LongInt'( 301);
11816:   'IDS_CAP_INFO','LongInt'( 401);
11817:   'IDS_CAP_OUTOFGMEM','LongInt'( 402);
11818:   'IDS_CAP_FILEEXISTS','LongInt'( 403);
11819:   'IDS_CAP_ERRORPALOPEN','LongInt'( 404);
11820:   'IDS_CAP_ERRORPALSAVE','LongInt'( 405);
11821:   'IDS_CAP_ERRORDIBSAVE','LongInt'( 406);
11822:   'IDS_CAP_DEFAVIEEXT','LongInt'( 407);
11823:   'IDS_CAP_DEFFPALEXT','LongInt'( 408);
11824:   'IDS_CAP_CANTOPEN','LongInt'( 409);
11825:   'IDS_CAP_SEQ_MSGSTART','LongInt'( 410);
11826:   'IDS_CAP_SEQ_MSGSTOP','LongInt'( 411);
11827:   'IDS_CAP_VIDEODITERR','LongInt'( 412);
11828:   'IDS_CAP_READONLYFILE','LongInt'( 413);
11829:   'IDS_CAP_WRITEERROR','LongInt'( 414);
11830:   'IDS_CAP_NODISKSPACE','LongInt'( 415);
11831:   'IDS_CAP_SETFILESIZE','LongInt'( 416);
11832:   'IDS_CAP_SAVEASPERCENT','LongInt'( 417);
11833:   'IDS_CAP_DRIVER_ERROR','LongInt'( 418);
11834:   'IDS_CAP_WAVE_OPEN_ERROR','LongInt'( 419);
11835:   'IDS_CAP_WAVE_ALLOC_ERROR','LongInt'( 420);
11836:   'IDS_CAP_WAVE_PREPARE_ERROR','LongInt'( 421);
11837:   'IDS_CAP_WAVE_ADD_ERROR','LongInt'( 422);
11838:   'IDS_CAP_WAVE_SIZE_ERROR','LongInt'( 423);
11839:   'IDS_CAP_VIDEO_OPEN_ERROR','LongInt'( 424);
11840:   'IDS_CAP_VIDEO_ALLOC_ERROR','LongInt'( 425);
11841:   'IDS_CAP_VIDEO_PREPARE_ERROR','LongInt'( 426);
11842:   'IDS_CAP_VIDEO_ADD_ERROR','LongInt'( 427);
11843:   'IDS_CAP_VIDEO_SIZE_ERROR','LongInt'( 428);
11844:   'IDS_CAP_FILE_OPEN_ERROR','LongInt'( 429);
11845:   'IDS_CAP_FILE_WRITE_ERROR','LongInt'( 430);
11846:   'IDS_CAP_RECORDING_ERROR','LongInt'( 431);
11847:   'IDS_CAP_RECORDING_ERROR2','LongInt'( 432);
11848:   'IDS_CAP_NO_FRAME_CAP_ERROR','LongInt'( 434);
11849:   'IDS_CAP_NO_PALETTE_WARN','LongInt'( 435);
11850:   'IDS_CAP_MCI_CONTROL_ERROR','LongInt'( 436);
11851:   'IDS_CAP_MCI_CANT_STEP_ERROR','LongInt'( 437);
11852:   'IDS_CAP_NO_AUDIO_CAP_ERROR','LongInt'( 438);
11853:   'IDS_CAP_AVI_DRAWDIB_ERROR','LongInt'( 439);
11854:   'IDS_CAP_COMPRESSOR_ERROR','LongInt'( 440);
11855:   'IDS_CAP_AUDIO_DROP_ERROR','LongInt'( 441);
11856:   'IDS_CAP_STAT_LIVE_MODE','LongInt'( 500);
11857:   'IDS_CAP_STAT_OVERLAY_MODE','LongInt'( 501);
11858:   'IDS_CAP_STAT_CAP_INIT','LongInt'( 502);
11859:   'IDS_CAP_STAT_CAP_FINI','LongInt'( 503);
11860:   'IDS_CAP_STAT_PALETTE_BUILD','LongInt'( 504);
11861:   'IDS_CAP_STAT_OPTPAL_BUILD','LongInt'( 505);
11862:   'IDS_CAP_STAT_I_FRAMES','LongInt'( 506);
11863:   'IDS_CAP_STAT_L_FRAMES','LongInt'( 507);
11864:   'IDS_CAP_STAT_CAP_L_FRAMES','LongInt'( 508);
11865:   'IDS_CAP_STAT_CAP_AUDIO','LongInt'( 509);
11866:   'IDS_CAP_STAT_VIDEOCURRENT','LongInt'( 510);
11867:   'IDS_CAP_STAT_VIDEOAUDIO','LongInt'( 511);
11868:   'IDS_CAP_STAT_VIDEOONLY','LongInt'( 512);
11869:   'IDS_CAP_STAT_FRAMESDROPPED','LongInt'( 513);
11870:   'AVICAP32','String 'AVICAP32.dll
11871: end;
11872:
11873: procedure SIRegister_ALFcnsMisc(CL: TPSPPascalCompiler);
11874: begin
11875:   Function AlBoolToInt( Value : Boolean) : Integer;
11876:   Function ALMediumPos( LTotal, LBorder, LObject : integer) : Integer;
11877:   Function AlIsValidEmail( const Value : AnsiString) : boolean;
11878:   Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime) : TdateTime;
11879:   Function ALInc( var x : integer; Count : integer) : Integer;
11880:   function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString;
11881:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11882:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11883:   Function ALIsInteger(const S: AnsiString): Boolean;
11884:   function ALIsDecimal(const S: AnsiString): boolean;
11885:   Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11886:   function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11887:   function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11888:   function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11889:   function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11890:   Function ALRandomStr1(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11891:   Function ALRandomStr(const aLength: Longint): AnsiString;
11892:   Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11893:   Function ALRandomStrU(const aLength: Longint): String;
11894: end;
11895:
11896: procedure SIRegister_ALJSONDoc(CL: TPSPPascalCompiler);
11897: begin
11898:   Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const aTrueStr: AnsiString; const aFalseStr : AnsiString)

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11899: end;
11900:
11901: procedure SIRegister_ALWindows(CL: TPSPascalCompiler);
11902: begin
11903:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11904:     +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11905:     +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11906:     +'; ullAvailExtendedVirtual : Int64; end
11907:   TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11908:   Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11909:   Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11910:   'INVALID_SET_FILE_POINTER','LongInt'( DWORD ( - 1 ) );
11911:   'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2 );
11912:   'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1 );
11913:   'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8 );
11914:   'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4 );
11915: end;
11916:
11917: procedure SIRegister_IPCThrd(CL: TPSPascalCompiler);
11918: begin
11919:   SIRegister_THandledObject(CL);
11920:   SIRegister_TEvent(CL);
11921:   SIRegister_TMutex(CL);
11922:   SIRegister_TSharedMem(CL);
11923:   'TRACE_BUF_SIZE','LongInt'( 200 * 1024 );
11924:   'TRACE_BUFFER','String 'TRACE_BUFFER
11925:   'TRACE_MUTEX','String 'TRACE_MUTEX
11926:   //PTraceEntry', '^TTraceEntry // will not work
11927:   SIRegister_TIPCTracer(CL);
11928:   'MAX_CLIENTS','LongInt'( 6 );
11929:   'IPC TIMEOUT','LongInt'( 2000 );
11930:   'IPCBUFFER_NAME','String 'BUFFER_NAME
11931:   'BUFFER_MUTEX_NAME','String 'BUFFER_MUTEX
11932:   'MONITOR_EVENT_NAME','String 'MONITOR_EVENT
11933:   'CLIENT_EVENT_NAME','String 'CLIENT_EVENT
11934:   'CONNECT_EVENT_NAME','String 'CONNECT_EVENT
11935:   'CLIENT_DIR_NAME','String 'CLIENT_DIRECTORY
11936:   'CLIENT_DIR_MUTEX','String 'DIRECTORY_MUTEX
11937:   FindClass('TOBJECT'), 'EMonitorActive
11938:   FindClass('TOBJECT'), 'TIPCThread
11939:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11940:     +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11941:     +'ach, evClientSwitch, evClientSignal, evClientExit )
11942:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11943:   TClientFlags', 'set of TClientFlag
11944:   //PEventData', '^TEventData // will not work
11945:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11946:     +'lag; Flags : TClientFlags; end
11947:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean )
11948:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread )
11949:   TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData )
11950:   //TIPCEventInfo', '^TIPCEventInfo // will not work
11951:   TIPCEventInfo', 'record FID:Integer; FKind:TEventKind; FData:TEventData; end
11952:   SIRegister_TIPCEvent(CL);
11953:   //PClientDirRecords', '^TClientDirRecords // will not work
11954:   SIRegister_TClientDirectory(CL);
11955:   TIPCState', '( stInactive, stDisconnected, stConnected )
11956:   SIRegister_TIPCThread(CL);
11957:   SIRegister_TIPCMonitor(CL);
11958:   SIRegister_TIPCCClient(CL);
11959:   Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11960: end;
11961:
11962: (*-----*)
11963: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11964: begin
11965:   SIRegister_TALGSMComm(CL);
11966:   Function ALGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11967:   Procedure ALGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
11968:   AMessage:AnsiString);
11969:   Function ALGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11970:   Function ALGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
11971:   UseGreekAlphabet:Bool):Widestring;
11972:   function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11973:   procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11974:   begin
11975:     TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyInfo:Integer;
11976:     TALHTTPProtocolVersion', '( HTTPpv_1_0, HTTPpv_1_1 )
11977:     TALHTTPMethod', '( HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete );
11978:     TIInternetScheme', 'integer
11979:     TALIPv6Binary', 'array[1..16] of Char;
11980:     // TALIPv6Binary = array[1..16] of ansiChar;
11981:     // TIInternetScheme = Integer;
11982:     SIRegister_TALHTTPRequestHeader(CL);
11983:     SIRegister_TALHTTPCookie(CL);
11984:     SIRegister_TALHTTPCookieCollection(CL);
11985:     SIRegister_TALHTTPResponseHeader(CL);

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11986: Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11987: Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11988: // Procedure ALExtractHTTPFields( Separators,WhiteSpace, Quotes:TSysCharSet,
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11989: // Procedure ALExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11990: // Procedure ALExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11991: Function AlRemoveSchemeFromUrl( aUrl : AnsiString ) : AnsiString
11992: Function AlExtractSchemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11993: Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11994: Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11995: Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11996: Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11997: Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11998: Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11999: Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
12000: Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
12001: Function AlCombineUrl( RelativeUrl, BaseUrl : AnsiString ) : AnsiString;
12002: Function AlCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
12003: Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
12004: Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
12005: Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
12006: Function ALRfc822StrToGMTDateTime( const s : AnsiString ) : TDateTime
12007: Function ALTryIPv4StrToNumeric( aIPv4Str : AnsiString; var aIPv4Num : Cardinal ) : Boolean
12008: Function ALIPv4StrToNumeric( aIPv4 : AnsiString ) : Cardinal
12009: Function ALNumericToIPv4Str( aIPv4 : Cardinal ) : AnsiString
12010: Function ALZeroIpV6 : TALIPv6Binary
12011: Function ALTryIPv6StrToBinary( aIPv6Str : AnsiString; var aIPv6Bin : TALIPv6Binary ) : Boolean
12012: Function ALIPv6StrToBinary( aIPv6 : AnsiString ) : TALIPv6Binary
12013: Function ALBinaryToIPv6Str( aIPv6 : TALIPv6Binary ) : AnsiString
12014: Function ALBinaryStrToIPv6Binary( aIPv6BinaryStr : AnsiString ) : TALIPv6Binary
12015: end;
12016:
12017: procedure SIRegister_ALFcnHTML(CL: TPSPascalCompiler);
12018: begin
12019: Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Bool;
12020: Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
12021: Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
12022: Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
12023: Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
12024: Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIIHTMLEntities:Bool;const
useNumRef:bool):AnsiString;
12025: Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
12026: Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean ) : AnsiString
12027: Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
12028: Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
12029: Procedure ALCompactHtmlTagParams( TagParams : TALStrings )
12030: end;
12031:
12032: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
12033: begin
12034: SIRegister_TALEMailHeader(CL);
12035: SIRegister_TALNewsArticleHeader(CL);
12036: Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):AnsiString;
12037: Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
12038: Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
12039: Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
12040: Function ALGenerateInternetMessageID : AnsiString;
12041: Function ALGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
12042: Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
12043: Function ALDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
12044: end;
12045:
12046: (*-----*)
12047: procedure SIRegister_ALFcnWinSock(CL: TPSPascalCompiler);
12048: begin
12049: Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
12050: Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
12051: Function ALGetLocalIPs : TALStrings
12052: Function ALGetLocalHostName : AnsiString
12053: end;
12054:
12055: procedure SIRegister_ALFcnCGI(CL: TPSPascalCompiler);
12056: begin
12057: Procedure AlCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
TALWebRequest;ServerVariables:TALStrings);
12058: Procedure AlCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12059: Procedure AlCGIInitDefaultServerVariables( ServerVariables : TALStrings );
12060: Procedure AlCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
ScriptFileName:AnsiString;Url:AnsiStr;
12061: Procedure AlCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
ScriptName, ScriptFileName : AnsiString; Url : AnsiString);

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12062: Procedure AlCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
12063:   : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
12064: Procedure AlCGIExec1( ScriptName,ScriptFileName , Url , X_REWRITE_URL , InterpreterFilename:AnsiString;
12065: WebRequest : TALIsapiRequest;
12066: overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;'+'overloadedRequestContentStream:Tstream;var
12067: ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
12068: Procedure AlCGIExec2( ScriptName,ScriptFileName , Url , X_REWRITE_URL ,
12069: InterpreterFilename:AnsiString;WebRequest : TALIsapiRequest; var ResponseContentString : AnsiString;
12070: ResponseHeader : TALHTTPResponseHeader);
12071: end;
12072: procedure SIRegister_ALFcnExecute(CL: TPSPascalCompiler);
12073: begin
12074:   TStartupInfoA', 'TStartupInfo
12075:   'SE_CREATE_TOKEN_NAME', 'String'( 'SeCreateTokenPrivilege
12076: SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege
12077: SE_LOCK_MEMORY_NAME', 'String)( 'SeLockMemoryPrivilege
12078: SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege
12079: SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege
12080: SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege
12081: SE_TCB_NAME', 'String 'SeTcbPrivilege
12082: SE_SECURITY_NAME', 'String 'SeSecurityPrivilege
12083: SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege
12084: SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege
12085: SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege
12086: SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege
12087: SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege
12088: SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege
12089: SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege
12090: SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege
12091: SE_BACKUP_NAME', 'String 'SeBackupPrivilege
12092: SE_RESTORE_NAME', 'String 'SeRestorePrivilege
12093: SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege
12094: SE_DEBUG_NAME', 'String 'SeDebugPrivilege
12095: SE_AUDIT_NAME', 'String 'SeAuditPrivilege
12096: SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege
12097: SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege
12098: SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege
12099: SE_UNDOCK_NAME', 'String 'SeUndockPrivilege
12100: SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege
12101: SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege
12102: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege
12103: Function AlGetEnvironmentString : AnsiString
12104: Function ALWinExec32( const FileName,CurrentDir,
12105: Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12106: Function ALWinExec321( const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12107: Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer ) : DWORD
12108: Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer ) : DWORD
12109: Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean ) : Boolean
12110: end;
12111: procedure SIRegister_ALFcnFile(CL: TPSPascalCompiler);
12112: begin
12113:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
12114: RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
12115: Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
12116: RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime ) : Boolean;
12117: Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
12118: FileNameMask : ansiString; const FailIfExists : Boolean ) : Boolean
12119: Function ALGetModuleName : ansistring
12120: Function ALGetModuleFileNameWithoutExtension : ansistring
12121: Function ALGetModulePath : ansistring
12122: Function ALGetFileSize( const AFileName : ansistring ) : int64
12123: Function ALGetFileVersion( const AFileName : ansistring ) : ansistring
12124: Function ALGetFileCreationDateTime( const aFileName : Ansistring ) : TDateTime
12125: Function ALGetFileLastWriteDateTime( const aFileName : Ansistring ) : TDateTime
12126: Function ALGetFileLastAccessDateTime( const aFileName : Ansistring ) : TDateTime
12127: Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime )
12128: Function AlIsDirectoryEmpty( const directory : ansiString ) : boolean
12129: Function ALFileExists( const Path : ansiString ) : boolean
12130: Function ALDirectoryExists( const Directory : Ansistring ) : Boolean
12131: Function ALCreateDir( const Dir : Ansistring ) : Boolean
12132: Function ALRemoveDir( const Dir : Ansistring ) : Boolean
12133: Function ALDeleteFile( const FileName : Ansistring ) : Boolean
12134: Function ALRenameFile( const OldName, NewName : ansistring ) : Boolean
12135: end;
12136: procedure SIRegister_ALFcnMime(CL: TPSPascalCompiler);
12137: begin
12138:   NativeInt', 'Integer
12139:   NativeUInt', 'Cardinal
12140:   Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12141:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12142:   Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12143:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12144:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12145:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12146:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12147: InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )

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12141: Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12142: InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12143: Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12144: InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12145: Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12146: InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12147: Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12148: InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt);
12149: Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
12150: ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12151: Procedure ALMimeBase64Encode( const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
12152: OutputBuf:TByteDynArray);
12153: Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
12154: OutputBuffer:TByteDynArray);
12155: Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12156: OutputBuffer:TByteDynArray);
12157: Function ALMimeBase64DecodePartial1( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12158: OutputBuffer:TByteDynArray); var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12159: Function ALMimeBase64DecodePartialEnd1( out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
12160: ByteBufferSpace:Cardinal) : NativeInt;
12161: Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12162: Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12163: Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12164: Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12165: Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12166: Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream)
12167: 'cALMimeBase64_ENCODED_LINE_BREAK','LongInt'( 76);
12168: 'cALMimeBase64_DECODED_LINE_BREAK','LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3);
12169: 'cALMimeBase64_BUFFER_SIZE','LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4);
12170: 'CALXMLNodeMaxListSize','LongInt'( Maxint div 16);
12171: FindClass('TOBJECT'),'TALXMLNode'
12172: FindClass('TOBJECT'),'TALXMLNodeList'
12173: FindClass('TOBJECT'),'TALXMLDocument'
12174: 'TALXMLParseProcessingInstructionEvent','Procedure (Sender:TObject; const Target,Data:AnsiString)'
12175: 'TALXMLParseTextEvent','Procedure ( Sender : TObject; const str: AnsiString)'
12176: 'TALXMLParseStartElementEvent','Procedure ( Sender : TObject; co'
12177: '+nst Name : AnsiString; const Attributes : TALStrings)'
12178: 'TALXMLParseEndElementEvent','Procedure ( Sender : TObject; const Name : AnsiString)'
12179: 'TALXmlNodeType','( ntReserved, ntElement, ntAttribute, ntText, '
12180: '+ntCData, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12181: '+ntDocType, ntDocFragment, ntNotation )'
12182: 'TALXMLDocOption','( doNodeAutoCreate, doNodeAutoIndent )'
12183: 'TALXMLDocOptions',' set of TALXMLDocOption'
12184: 'TALXMLParseOption','( poPreserveWhiteSpace, poIgnoreXMLReferences )'
12185: 'TALXMLParseOptions',' set of TALXMLParseOption'
12186: 'TALXMLPrologItem','( xpVersion, xpEncoding, xpStandalone )'
12187: 'PALPointerXMLNodeList','^PALPointerXMLNodeList // will not work'
12188: 'SIRегистre_EALXMLDocError(CL)';
12189: 'SIRегистre_TALXMLNodeList(CL)';
12190: 'SIRегистre_TALXMLNode(CL)';
12191: 'SIRегистre_TALXmlElementNode(CL)';
12192: 'SIRегистre_TALXmlAttributeNode(CL)';
12193: 'SIRегистre_TALXmlTextNode(CL)';
12194: 'SIRегистre_TALXmlDocumentNode(CL)';
12195: 'SIRегистre_TALXmlCommentNode(CL)';
12196: 'SIRегистre_TALXmlProcessingInstrNode(CL)';
12197: 'SIRегистre_TALXmlCDataNode(CL)';
12198: 'SIRегистre_TALXmlEntityRefNode(CL)';
12199: 'SIRегистre_TALXmlEntityNode(CL)';
12200: 'SIRегистre_TALXmlDocTypeNode(CL)';
12201: 'SIRегистre_TALXmlDocFragmentNode(CL)';
12202: 'SIRегистre_TALXmlNotationNode(CL)';
12203: 'SIRегистre_TALXMLDocument(CL)';
12204: 'cALXMLEUTF8EncodingStr','String 'UTF-8
12205: 'cALXMLEUTF8HeaderStr','String <?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' +#13#10';
12206: 'CALNSDelim','String ': 
12207: 'CALXML','String 'xml
12208: 'CALVersion','String 'version
12209: 'CALEncoding','String 'encoding
12210: 'CALStandalone','String 'standalone
12211: 'CALDefaultNodeIndent','String '
12212: 'CALXmlDocument','String 'DOCUMENT
12213: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TalXMLDocument
12214: Procedure ALClearXMLDocument( const rootname:AnsiString;xmldoc:TalXMLDocument;const
12215: EncodingStr:AnsiString );
12216: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildnodeName,
12217: ChildnodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12218: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
12219: ChildnodeName, ChildnodeValue : AnsiString; const Recurse : Boolean) : TalxmlNode

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12217: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
12218:   Recurse: Boolean):TalxmlNode
12219: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
12220:   AttributeName,AttributeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12221: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString) :
12222:   AnsiString
12223: end;
12224: begin
12225:   'TeePiStep','Double').setExtended( Pi / 180.0);
12226:   'TeeDefaultPerspective','LongInt'( 100);
12227:   'TeeMinAngle','LongInt'( 270);
12228:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12229:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ));
12230:   'teeclCream','LongWord').SetUInt( TColor ( $F0FBFF ));
12231:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ));
12232:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12233:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ));
12234:   'teeclCream','LongWord').SetUInt( TColor ( $F0FBFF ));
12235:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ));
12236:   'TA_LEFT','LongInt'( 0);
12237:   'TA_RIGHT','LongInt'( 2);
12238:   'TA_CENTER','LongInt'( 6);
12239:   'TA_TOP','LongInt'( 0);
12240:   'TA_BOTTOM','LongInt'( 8);
12241:   'teePATCOPY','LongInt'( 0);
12242:   'NumCirclePoints','LongInt'( 64);
12243:   'teeDEFAULT_CHARSET','LongInt'( 1);
12244:   'teeANTIALIASED_QUALITY','LongInt'( 4);
12245:   'TA_LEFT','LongInt'( 0);
12246:   'bs_Solid','LongInt'( 0);
12247:   'teepf24Bit','LongInt'( 0);
12248:   'teepfDevice','LongInt'( 1);
12249:   'CM_MOUSELEAVE','LongInt'( 10000);
12250:   'CM_SYSCOLORCHANGE','LongInt'( 10001);
12251:   'DC_BRUSH','LongInt'( 18);
12252:   'DC_PEN','LongInt'( 19);
12253:   'teeCOLORREF','LongWord
12254:   TLogBrush', record lbstyle : Integer; lbColor : TColor; lbHatch: Integer; end
12255:   //TNotifyEvent', 'Procedure ( Sender : TObject)
12256:   SIRegister_TFilterRegion(CL);
12257:   SIRegister_IFormCreator(CL);
12258:   SIRegister_TTeeFilter(CL);
12259:   //TFilterClass', 'class of TTeeFilter
12260:   SIRegister_TFilterItems(CL);
12261:   SIRegister_TConvolveFilter(CL);
12262:   SIRegister_TBlurFilter(CL);
12263:   SIRegister_TTeePicture(CL);
12264:   TPenEndStyle', '( esRound, esSquare, esFlat )
12265:   SIRegister_TChartPen(CL);
12266:   SIRegister_TChartHiddenPen(CL);
12267:   SIRegister_TDottedGrayPen(CL);
12268:   SIRegister_TDarkGrayPen(CL);
12269:   SIRegister_TWhitePen(CL);
12270:   SIRegister_TChartBrush(CL);
12271:   TTeeView3DSrolled', 'Procedure ( IsHoriz : Boolean)
12272:   TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12273:   SIRegister_TVview3DOptions(CL);
12274:   FindClass('TOBJECT'),'TTeeCanvas
12275:   TTeeTransparency', 'Integer
12276:   SIRegister_TTeeBlend(CL);
12277:   FindClass('TOBJECT'),'TCanvas3D
12278:   SIRegister_TTeeShadow(CL);
12279:   teeTGradientDirection','(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
12280:   gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )
12281:   FindClass('TOBJECT'),'TSubGradient
12282:   SIRegister_TCustomTeeGradient(CL);
12283:   SIRegister_TSubGradient(CL);
12284:   SIRegister_TTeeGradient(CL);
12285:   SIRegister_TTeeFontGradient(CL);
12286:   TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12287:   TCanvasTextAlign', 'Integer
12288:   TTeeCanvasHandle', 'HDC
12289:   SIRegister_TTeeCanvas(CL);
12290:   TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12291:   SIRegister_TFloatXYZ(CL);
12292:   TPoint3D', 'record x : integer; y : integer; z : Integer; end
12293:   TRGB', 'record blue: byte; green: byte; red: byte; end
12294:   {TRGB=packed record
12295:     Blue : Byte;
12296:     Green : Byte;
12297:     Red : Byte;
12298:     //$/IFDEF CLX //Alpha : Byte; // Linux end;}
12299:
12300:   TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12301:     +TPoint3D; var Color0, Color1 : TColor) : Boolean

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12302: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12303: TCanvas3DPlane', '( cpX, cpY, cpZ )
12304: //IInterface', 'IUnknown
12305: SIRegister_TCanvas3D(CL);
12306: SIRegister_TTeeCanvas3D(CL);
12307: TTrianglePoints', 'Array[0..2] of TPoint;
12308: TFourPoints', 'Array[0..3] of TPoint;
12309: Function ApplyDark( Color : TColor; HowMuch : Byte ) : TColor
12310: Function ApplyBright( Color : TColor; HowMuch : Byte ) : TColor
12311: Function Point3D( const x, y, z : Integer ) : TPoint3D
12312: Procedure SwapDouble( var a, b : Double )
12313: Procedure SwapInteger( var a, b : Integer )
12314: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer )
12315: Procedure teeRectCenter( const R : TRect; var X, Y : Integer )
12316: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer ) : TRect
12317: Function RectFromTriangle( const Points : TTrianglePoints ) : TRect
12318: Function RectangleInRectangle( const Small, Big : TRect ) : Boolean
12319: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect )
12320: Procedure UnClipCanvas( ACanvas : TCanvas )
12321: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect )
12322: Procedure ClipRoundRectangle( ACanvas : TTeeCanvas; const Rect : TRect; RoundSize : Integer )
12323: Procedure ClipPolygon( ACanvas : TTeeCanvas; const Points : array of TPoint; NumPoints : Integer )
12324: 'TeeCharForHeight', 'String 'W
12325: 'DarkerColorQuantity', 'Byte').SetUInt( 128 );
12326: 'DarkColorQuantity', 'Byte').SetUInt( 64 );
12327: TButtonGetColorProc', 'Function : TColor
12328: SIRegister_TTeeButton(CL);
12329: SIRegister_TButtonColor(CL);
12330: SIRegister_TComboFlat(CL);
12331: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TeeCanvasHandle)
12332: Function TeePoint( const aX, aY : Integer ) : TPoint
12333: Function TEEPointInRect( const Rect : TRect; const P : TPoint ) : Boolean;
12334: Function PointInRect1( const Rect : TRect; x, y : Integer ) : Boolean;
12335: Function TeeRect( Left, Top, Right, Bottom : Integer ) : TRect
12336: Function OrientRectangle( const R : TRect ) : TRect
12337: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer )
12338: Function PolygonBounds( const P : array of TPoint ) : TRect
12339: Function PolygonInPolygon( const A, B : array of TPoint ) : Boolean
12340: Function RGBValue( const Color : TColor ) : TRGB
12341: Function EditColor( AOwner : TComponent; AColor : TColor ) : TColor
12342: Function EditColorDialog( AOwner : TComponent; var AColor : TColor ) : Boolean
12343: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer ) : TPoint
12344: Function TeeCull( const P : TFourPoints ) : Boolean;
12345: Function TeeCull1( const P0, P1, P2 : TPoint ) : Boolean;
12346: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12347: Procedure SmoothStretch( Src, Dst : TBitmap );
12348: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption );
12349: Function TeeDistance( const x, y : Double ) : Double
12350: Function TeeLoadLibrary( const FileName : String ) : HInst
12351: Procedure TeeFreeLibrary( hLibModule : HMODULE )
12352: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint )
12353: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap )
12354: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean )
12355: SIRegister_ICanvasHyperlinks(CL);
12356: SIRegister_ICanvasToolTips(CL);
12357: Function Supports( const Instance : IInterface; const IID : TGUID ) : Boolean
12358: end;
12359:
12360: procedure SIRegister_ovcmisc(CL: TPPascalCompiler);
12361: begin
12362: TOvcHdc', 'Integer
12363: TOvcHWND', 'Cardinal
12364: TOvcHdc', 'HDC
12365: TOvcHWND', 'HWND
12366: Function LoadBaseBitmap( lpBitmapName : PChar ) : HBITMAP
12367: Function LoadBaseCursor( lpCursorName : PChar ) : HCURSOR
12368: Function ovCompStruct( const S1, S2, Size : Cardinal ) : Integer
12369: Function DefaultEpoch : Integer
12370: Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12371: Procedure FixRealPrim( P : PChar; DC : Char )
12372: Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer ) : string
12373: Function GetLeftButton : Byte
12374: Function GetNextDlgItem( Ctrl : TOvcHWnd ) : hWnd
12375: Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte )
12376: Function GetShiftFlags : Byte
12377: Function ovCreateRotatedFont( F : TFont; Angle : Integer ) : hFont
12378: Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12379: Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet ) : string
12380: Function ovIsForegroundTask : Boolean
12381: Function ovTrimLeft( const S : string ) : string
12382: Function ovTrimRight( const S : string ) : string
12383: Function ovQuotedStr( const S : string ) : string
12384: Function ovWordCount( const S : string; const WordDelims : TCharSet ) : Integer
12385: Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12386: Function PtrDiff( const P1, P2 : PChar ) : Word
12387: Procedure PtrInc( var P, Delta : Word )
12388: Procedure PtrDec( var P, Delta : Word )
12389: Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer )

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12390: Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
12391:   SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer)
12392: Function ovMinI( X, Y : Integer ) : Integer
12393: Function ovMaxI( X, Y : Integer ) : Integer
12394: Function ovMinL( X, Y : LongInt ) : LongInt
12395: Function ovMaxL( X, Y : LongInt ) : LongInt
12396: Function GenerateComponentName( PF : TWInControl; const Root : string ) : string
12397: Function PartialCompare( const S1, S2 : string ) : Boolean
12398: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12399: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12400: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12400: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
12401:   TransparentColor : TColor )
12401: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
12401:   TransparentColor : TColorRef)
12402: Function ovWidthOf( const R : TRect ) : Integer
12403: Function ovHeightOf( const R : TRect ) : Integer
12404: Procedure ovDebugOutput( const S : string )
12405: Function GetArrowWidth( Width, Height : Integer ) : Integer
12406: Procedure StripCharSeq( CharSeq : string; var Str : string )
12407: Procedure StripCharFromEnd( aChr : Char; var Str : string )
12408: Procedure StripCharFromFront( aChr : Char; var Str : string )
12409: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12410: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL
12411: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12412: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12413: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12414: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12415: Function CreateMetaFile( p1 : PChar ) : HDC
12416: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12417: Function DrawText(HDC: HDC;lpString: PChar;nCount: Integer; var lpRect : TRect; uFormat:UINT): Integer
12418: Function DrawTextS(hdc: HDC;lpString: string;nCount: Integer; var lpRect: TRect; uFormat:UINT): Integer
12419: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12420: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12421: Function SetMapMode( DC : HDC; p2 : Integer ) : Integer
12422: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12423: //Function SetPaletteEntries(Palette:HPALETTE;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12424: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12425: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : BOOL
12426: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12427: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12428: Function StretchBlt(DestDC: HDC; X, Y, Width, Height: Int; SrcDC: HDC; XSrc, YSrc, SrcWidth,
12428:   SrcHeight: Int; Rop: WORD): BOOL
12429: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12430: Function StretchDIBits(DC : HDC; DestX, DestY, DestWidth, DestHeight, SrcX, SrcY, SrcWidth,
12430:   SrcHeight: Int; Bits: int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : WORD) : Integer
12431: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12432: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12433: Function SetSystemPaletteUse( DC : HDC; p2 : UINT ) : UINT
12434: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12435: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12436: Function SetTextAlign( DC : HDC; Flags : UINT ) : UINT
12437: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12438: Function UpdateColors( DC : HDC ) : BOOL
12439: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12440: Function GetViewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12441: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12442: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12443: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12444: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12445: Function MaskBlt(DestDC: HDC; XDest, YDest, Width, Height: Integer; SrcDC : HDC; XScr, YScr : Integer; Mask :
12445:   HBITMAP; xMask, yMask : Integer; Rop : WORD) : BOOL
12446: Function PlgBlt(DestDC: HDC; const PtsArray, SrcDC: HDC; XSrc, YSrc, Widt, Heigh: Int; Mask: HBITMAP; xMask,
12446:   yMask: Int): BOOL;
12447: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12448: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12449: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : WORD ) : BOOL
12450: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12451: Function PlayMetaFile( DC : HDC; MF : HMETAFILE ) : BOOL
12452: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12453: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12454: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12455: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12456: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12457: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12458: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12459: end;
12460:
12461: procedure SIRegister_ovcfiler(CL: TPSPascalCompiler);
12462: begin
12463:   SIRegister_TOvcAbstractStore(CL);
12464:   //PEXPropInfo', '^TExPropInfo' // will not work
12465:   // _TEXPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12466:   SIRegister_TOvcPropertyList(CL);
12467:   SIRegister_TOvcDataFiler(CL);
12468:   Procedure UpdateStoredList( AForm : TWInControl; AStoredList : TStrings; FromForm : Boolean )
12469:   Procedure UpdateStoredList( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean )
12470:   Function CreateStoredItem( const CompName, PropName : string ) : string
12471:   Function ParseStoredItem( const Item : string; var CompName, PropName : string ) : Boolean

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12472: //Function GetPropType( PropInfo : PExPropInfo ) : PTypeInfo
12473: end;
12474:
12475: procedure SIRegister_ovccoco(CL: TPSPascalCompiler);
12476: begin
12477:   'ovsetsize','LongInt'( 16 );
12478:   'etSyntax','LongInt'( 0 );
12479:   'etSemantic','LongInt'( 1 );
12480:   'chCR','Char #13';
12481:   'chLF','Char #10';
12482:   'chLineSeparator',' chCR');
12483:   SIRegister_TCocoError(CL);
12484:   SIRegister_TCommentItem(CL);
12485:   SIRegister_TCommentList(CL);
12486:   SIRegister_TSymbolPosition(CL);
12487:   TGenListType', '( glNever, glAlways, glOnError )
12488:   TovBitSet', 'set of Integer
12489:   //PStartTable', '^TStartTable // will not work
12490:   'TovCharSet', 'set of AnsiChar
12491:   TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12492:   TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12493:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12494:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12495:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolD'
12496:     +'osition; const Data : string; ErrorType : integer)
12497:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12498:   TGetCH', 'Function ( pos : longint ) : char
12499:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12500:   SIRegister_TCocoRScanner(CL);
12501:   SIRegister_TCocoRGrammar(CL);
12502:   '_EF','Char #0);
12503:   '_TAB','Char').SetString( #09);
12504:   '_CR','Char').SetString( #13);
12505:   '_LF','Char').SetString( #10);
12506:   '_EL','','').SetString( _CR);
12507:   '_EOF','Char').SetString( #26);
12508:   'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12509:   'minErrDist','LongInt'( 2 );
12510:   Function ovPadL( S : string; ch : char; L : integer ) : string
12511: end;
12512:
12513: TFormatSettings = record
12514:   CurrencyFormat: Byte;
12515:   NegCurrFormat: Byte;
12516:   ThousandSeparator: Char;
12517:   DecimalSeparator: Char;
12518:   CurrencyDecimals: Byte;
12519:   DateSeparator: Char;
12520:   TimeSeparator: Char;
12521:   ListSeparator: Char;
12522:   CurrencyString: string;
12523:   ShortDateFormat: string;
12524:   LongDateFormat: string;
12525:   TimeAMString: string;
12526:   TimePMString: string;
12527:   ShortTimeFormat: string;
12528:   LongTimeFormat: string;
12529:   ShortMonthNames: array[1..12] of string;
12530:   LongMonthNames: array[1..12] of string;
12531:   ShortDayNames: array[1..7] of string;
12532:   LongDayNames: array[1..7] of string;
12533:   TwoDigitYearCenturyWindow: Word;
12534: end;
12535:
12536: procedure SIRegister_OvcFormatSettings(CL: TPSPascalCompiler);
12537: begin
12538:   Function ovFormatSettings : TFormatSettings
12539: end;
12540:
12541: procedure SIRegister_ovcstr(CL: TPSPascalCompiler);
12542: begin
12543:   TOvcCharSet', 'set of Char
12544:   ovTable', 'array[0..255] of Byte
12545:   //BTABLE = array[0..{$IFDEF UNICODE}{$ENDIF}{$ELSE}{$ENDIF}]{${$ENDIF}} of Byte;
HUGE_UNICODE_BMTABLE{$FFFF}{$ELSE}{$ENDIF}{$ELSE}{$ENDIF} of Byte;
12546:   Function BinaryBPChar( Dest : PChar; B : Byte ) : PChar
12547:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12548:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12549:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable )
12550:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12551:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12552:   Function CharPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12553:   Function DatabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12554:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12555:   Function HexLCChar( Dest : PChar; L : LongInt ) : PChar
12556:   Function HexPtrPChar( Dest : PChar; P : TObject ) : PChar
12557:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12558:   Function LoCaseChar( C : Char ) : Char
12559:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar

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12560: Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12561: Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal ) : PChar
12562: Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12563: Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Cardinal )
12564: Function StrSCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12565: Function StrSDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12566: Function StrSInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12567: Function StrSInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12568: Function StrSPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12569: Function StrToLongPChar( S : PChar; var I : LongInt ) : Boolean
12570: Procedure TrimAllSpacesPChar( P : PChar )
12571: Function TrimEmbeddedZeros( const S : string ) : string
12572: Procedure TrimEmbeddedZerosPChar( P : PChar )
12573: Function TrimTrailPrimPChar( S : PChar ) : PChar
12574: Function TrimTrailPChar( Dest, S : PChar ) : PChar
12575: Function TrimTrailingZeros( const S : string ) : string
12576: Procedure TrimTrailingZerosPChar( P : PChar )
12577: Function UpCaseChar( C : Char ) : Char
12578: Function ovcCharInSet( C : Char; const CharSet : TOvc CharSet ) : Boolean
12579: Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12580: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal ) : Boolean;
12581: end;
12582:
12583: procedure SIRegister_AfUtils(CL: TPSCompiler);
12584: begin
12585:   //PraiseFrame', '^TRaiseFrame // will not work
12586:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12587:     +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12588:   Procedure SafeCloseHandle( var Handle : THandle )
12589:   Procedure ExchangeInteger( X1, X2 : Integer )
12590:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12591:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12592:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12593:
12594: FILENAME_ADVAPI32 = 'ADVAPI32.DLL';
12595:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12596: function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12597:   function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12598:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12599:     SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12600:     const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12601:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12602:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12603:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12604:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12605:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12606:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12607:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12608:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12609:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12610:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12611:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12612:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12613:     var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12614:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12615:   function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12616:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12617:     lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12618:     lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12619:     dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12620:     const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12621:   function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12622:   function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12623:     pSecurityDescriptor: PSecurityDescriptor;nLength:DWORD;var lpnLengthNeeded: DWORD):BOOL; stdcall;
12624:   function GetUserName(lpBuffer: PKOLOChar; var nSize: DWORD): BOOL; stdcall;
12625:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLOChar;
12626:     dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12627:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLOChar;
12628:     dwLogonType, dwLogonProvider: DWORD; var phToken: THHandle): BOOL; stdcall;
12629:   function LookupAccountName(lpSystemName, lpAccountName: PKOLOChar;
12630:     Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLOChar;
12631:     var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12632:   function LookupAccountSid(lpSystemName: PKOLOChar; Sid: PSID;
12633:     Name: PKOLOChar; var cbName: DWORD; ReferencedDomainName: PKOLOChar;
12634:     var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12635:   function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLOChar;
12636:     lpDisplayName: PKOLOChar; var cb DisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12637:   function LookupPrivilegeName(lpSystemName: PKOLOChar;
12638:     var lpLuid: TLargeInteger; lpName: PKOLOChar; var cbName: DWORD): BOOL; stdcall;
12639:   function LookupPrivilegeValue(lpSystemName, lpName: PKOLOChar;
12640:     var lpLuid: TLargeInteger): BOOL; stdcall;
12641:   function ObjectCloseAuditAlarm(SubsystemName: PKOLOChar;
12642:     HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12643:   function ObjectDeleteAuditAlarm(SubsystemName: PKOLOChar;
12644:     HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12645:   function ObjectOpenAuditAlarm(SubsystemName: PKOLOChar; HandleId: Pointer;
12646:     ObjectTypeName: PKOLOChar; ObjectName: PKOLOChar; pSecurityDescriptor: PSecurityDescriptor;
12647:     ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12648:     var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;

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

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

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12790: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12791: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12792: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12793: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12794: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12795: Function
wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12796: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12797: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12798: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12799: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12800: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TfnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12801: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName:PKOLChar ) : THandle
12802: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THandle
12803: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12804: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ):THandle
12805: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12806: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12807: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
lpNumberOfEventsRead:DWORD):BOOL;
12808: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12809: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12810: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12811: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
lpNumbOfEventsRead:DWORD):BOOL;
12812: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
: TCoord; var lpReadRegion : TSmallRect ) : BOOL
12813: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12814: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12815: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12816: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12817: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12818: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12819: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12820: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCCommConfig; dwSize : DWORD ) : BOOL
12821: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12822: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12823: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDData : PKOLChar ) : BOOL
12824: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12825: //Function wUpdateResource(hUpdate:THandle;lpType,
lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12826: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12827: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12828: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12829: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
var lpNumberOfEventsWritten : DWORD ) : BOOL
12830: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12831: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12832: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12833: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12834: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12835: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12836: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12837: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12838: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12839: Function wlstrcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12840: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12841: Function wlstrlen( lpString : PKOLChar ) : Integer
12842: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruct :
PNetConnectInfoStruct ) : DWORD
12843: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12844: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
lpUserName:PKOLChar; dwFlags : DWORD )
12845: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12846: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12847: Function wWNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12848: //Function wWNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12849: //Function wWNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12850: //Function wWNetEnumResource(hEnum:THandle;var lpcCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12851: Function wWNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12852: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
: PKOLChar; nNameBufSize : DWORD ) : DWORD
12853: //Function wWNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12854: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12855: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12856: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
lpBufferSize:DWORD);
12857: Function wWNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12858: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12859: // Function wWNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD

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12860: //Function wNetUseConnection(hwndOwner:HWND;var lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar;dwFlags:DWORD;lpAccessName:PKOLChar;var lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12861: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12862: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12863: Function wVerFindfile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT ) : DWORD
12864: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir, szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12865: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12866: //Func wGetPrivateProfileStruct(lpszSection,
12867: //Func wWritePrivateProfileStruct(lpszSection,
12868: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12869: Function wAddFontResource( FileName : PKOLChar ) : Integer
12870: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12871: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12872: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12873: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12874: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC
12875: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic, fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy, fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT
12876: Function wCreateFontIndirect( const p1 : TLogFont ) : HFONT
12877: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV ) : HFONT
12878: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12879: Function wCreateMetaFile( p1 : PKOLChar ) : HDC
12880: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12881: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12882: pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int,
12883: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFnFontEnumProc; p4 : LPARAM ) : BOOL
12884: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12885: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fnTermPrc:TFNFontEnumProc;lpszData:PKOLChar):Integer;
12886: //Function wEnumICMPProfiles( DC : HDC; ICMPProc : TFNICMEnumProc; p3 : LPARAM ) : Integer
12887: //Function wExtTextOut(dc:HDC,X,Y:Int;Options:Longint;Rect:pRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12888: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12889: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts ) : BOOL
12890: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12891: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12892: // Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12893: Function wGetEnhMetaFile( p1 : PKOLChar ) : HENHMETAFILE
12894: Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar ) : UINT
12895: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD ) : DWORD
12896: // Function wGetGlyphOutline( DC : HDC; uChar,uFormat:UINT;const lpgm:PGlyphMetrics; cbBuffer : DWORD,
12897: lpvBuffer : Pointer; const lpmat2 : TMat2 ) : DWORD
12898: Function wGetICMPProfile( DC : HDC; var Size : DWORD; Name : PKOLChar ) : BOOL
12899: // Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12900: Function wGetMetaFile( p1 : PKOLChar ) : HMETAFILE
12901: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12902: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12903: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12904: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12905: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12906: //Function wGetTextMetrics( DC : HDC; var TM : TTextMetric ) : BOOL
12907: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12908: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12909: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12910: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12911: Function wSetICMPProfile( DC : HDC; Name : PKOLChar ) : BOOL
12912: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12913: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12914: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UINT ) : BOOL
12915: Function wwglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD ) : BOOL
12916: //Function wwglUseFontOutlines(p1: HDC; p2, p3, p4:DWORD;p5, p6:Single;p7: Int;p8: PGlyphMetricsFloat):BOOL
12917: Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12918: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL
12919: //Function
12920: wCallWindowProc(lpPrevWndFunc:TFNWndProc,hWnd:HWND,Msg:UINT;wParam:WPARAM,lParam:LPARAM):LRESULT
12921: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12922: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode : TDeviceMode; wnd : HWND; dwFlags : DWORD; lParam : Pointer ) : Longint
12923: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12924: Function wCharLower( lpsz : PKOLChar ) : PKOLChar
12925: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12926: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12927: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLChar
12928: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12929: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12930: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12931: Function wCharUpper( lpsz : PKOLChar ) : PKOLChar
12932: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12933: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer ) : Integer
12934: Function wCreateAcceleratorTable( var Accel, Count : Integer ) : HACCEL
12935: //Function wCreateDesktop(lpszDesktop,
12936: lpszDevice:PKOLChar;pDevmode:PDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK

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12936: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
12937:   HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12938: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
12939:   lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12940: Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
12941:   hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12942: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle WORD;X,Y,
12943:   nWidth, nHeight:Int WndParent:HWND;lMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND
12944: //Function wCreateWindowStation(lpWinsta:PKOLChar;dwReserv,
12945:   dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12946: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12947: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12948: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12949: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12950: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
12951:   : HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12952: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
12953:   : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12954: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12955: Function wDlgDirList( hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;
12956: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Int;ufiletype:UINT):Int;
12957: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer) : BOOL
12958: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12959: //FuncwDrawState(dc:HDC;Brush:HBRUSH,CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
12960:   cy:Int;Flags:UINT):BOOL;
12961: Function wDrawText(hdc:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12962: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12963: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12964: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int;var
12965:   pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12966: // Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12967: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12968: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12969: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer ) : Integer
12970: Function wGetClipboardFormatName( format : UINT; lpszFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12971: Function wGetDlgItemText( hDlg : HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12972: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12973: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12974: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12975: Function wGetMenuItemString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12976: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
12977: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12978: //Function wGetTabbedTextExtent( hdc : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
12979:   lpnTabStopPositions ) : DWORD
12980: //Function wGetObjectInform(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
12981:   lpnLengthNeed:DWORD)BOOL;
12982: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12983: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT ) : UINT
12984: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12985: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12986: //Function wGrayString(hdc:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARA;nCnt,X,Y,nWidt,
12987:   nHeigt:Int):BOOL;
12988: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12989: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12990: Function wIsCharAlpha( ch : KOLChar ) : BOOL
12991: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12992: Function wIsCharLower( ch : KOLChar ) : BOOL
12993: Function wIsCharUpper( ch : KOLChar ) : BOOL
12994: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12995: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12996: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12997: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12998: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12999: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
13000: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
13001: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
13002: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
13003: //Function wLoadMenuItemIndirect( lpMenuTemplate : Pointer ) : HMENU
13004: Function wLoadString(hInstance:HINST;uID: UINT; lpBuffer : PKOLChar;nBufferMax:Integer):Integer
13005: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
13006: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhkl : HKL ) : UINT
13007: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
13008: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
13009: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
13010: Function wModifyMenu( hMnu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
13011: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
13012: //Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
13013: Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
13014: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
13015: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD): HDESK
13016: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD ) : HWINSTA
13017: Function wPeekMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ):BOOL
13018: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
13019: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
13020: Function wRealGetWindowClass( hWnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
13021: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
13022: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM

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13011: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
13012: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
13013: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
13014: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
13015: Function wSendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13016: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
13017: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
13018: lpResultCallBack : TFNSendAsynchProc; dwData : DWORD ) : BOOL
13019: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
1lpdwResult:DWORD) : LRESULT
13020: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
13021: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
13022: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
13023: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMENUITEMINFO ) : BOOL
13024: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
13025: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
13026: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
13027: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
13028: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
13029: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni : UINT ):BOOL
13030: Function wTabbedTextOut(hdc:HDC;x,y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
1lpnTabStopPositions,nTabOrigin:Int):Longint;
13031: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
13032: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
13033: Function wVKeyScan( ch : KOLChar ) : SHORT
13034: Function wVKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
13035: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
13036: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
13037: Function wvvsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
13038:
13039: //TestDrive!
13040: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL
13041: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString('ConvertSidToStringSidA
13042: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
13043: Function GetLocalUserSidStr( const UserName : string ) : string
13044: Function getPid4user( const domain : string; const user : string; var pid : dword ) : boolean
13045: Function Impersonate2User( const domain : string; const user : string ) : boolean
13046: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
13047: Function KillProcessByName( const exename : string; var found : integer ) : integer
13048: Function getWinProcessList : TStringList
13049: function WaitTilClose(hWnd: Integer): Integer;
13050: function DoUserMsgs: Boolean;
13051: function MsgFunc(hWnd,Msg,wParam,lParam:Integer):Integer; stdcall;
13052: procedure ShowMsg(hParent: Integer; const Mess, Title: String); //modal but NOT blockable
13053: procedure DeleteMsgForm(Handle: Integer);
13054: procedure DisableForms;
13055: function FoundTopLevel(hWnd, LParam: Integer): BOOL; stdCall;
13056: end;
13057:
13058: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
13059: begin
13060: 'AfMaxSyncSlots','LongInt'( 64 );
13061: 'AfSynchronizeTimeout','LongInt'( 2000 );
13062: TAfSyncSlotID', 'DWORD
13063: TAfSyncStatistics', 'record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end;
13064: TAfSafeSyncEvent', 'Procedure ( ID : TAfSyncSlotID )
13065: TAfSafeDirectSyncEvent', 'Procedure
13066: Function AfNewSyncSlot( const AEvent : TAfSafeSyncEvent ) : TAfSyncSlotID
13067: Function AfReleaseSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13068: Function AfEnableSyncSlot( const ID : TAfSyncSlotID; Enable : Boolean ) : Boolean
13069: Function AfValidateSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13070: Function AfSyncEvent( const ID : TAfSyncSlotID; Timeout : DWORD ) : Boolean
13071: Function AfDirectSyncEvent( Event : TAfSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
13072: Function AfIsSyncMethod : Boolean
13073: Function AfSyncWnd : HWnd
13074: Function AfSyncStatistics : TAfSyncStatistics
13075: Procedure AfClearSyncStatistics
13076: end;
13077:
13078: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
13079: begin
13080: 'fBinary','LongWord')($00000001);
13081: 'fParity','LongWord')($00000002);
13082: 'fOutxCtsFlow','LongWord').SetUInt($00000004);
13083: 'fOutxDsrFlow','LongWord')($00000008);
13084: 'fDtrControl','LongWord')($00000030);
13085: 'fDtrControlDisable','LongWord')($00000000);
13086: 'fDtrControlEnable','LongWord')($00000010);
13087: 'fDtrControlHandshake','LongWord')($00000020);
13088: 'fDsrSensitivity','LongWord')($00000040);
13089: 'fTXContinueOnXoff','LongWord')($00000080);
13090: 'fOutX','LongWord')($00000100);
13091: 'fInX','LongWord')($00000200);
13092: 'fErrorChar','LongWord')($00000400);
13093: 'fNull','LongWord')($00000800);
13094: 'fRtsControl','LongWord')($00000300);
13095: 'fRtsControlDisable','LongWord')($00000000);
13096: 'fRtsControlEnable','LongWord')($00000100);

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13097: 'fRtsControlHandshake', 'LongWord')( $00002000);
13098: 'fRtsControlToggle', 'LongWord')( $00003000);
13099: 'fAbortOnError', 'LongWord')( $00004000);
13100: 'fDummy2', 'LongWord')( $FFFF8000);
13101: TAfCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13102: FindClass('TOBJECT'), 'EAFComPortCoreError
13103: FindClass('TOBJECT'), 'TafComPortCore
13104: TafComPortCoreEvent', 'Procedure ( Sender : TafComPortCore; Even'
13105: +'tKind : TAfCoreEvent; Data : DWORD)
13106: SIRegister_TAfComPortCoreThread(CL);
13107: SIRegister_TAfComPortEventThread(CL);
13108: SIRegister_TAfComPortWriteThread(CL);
13109: SIRegister_TAfComPortCore(CL);
13110: Function FormatDeviceName( PortNumber : Integer ) : string
13111: end;
13112:
13113: procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
13114: begin
13115:   TAFIFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13116:   TAFIFileStreamExistsEvent', 'Function ( const fileName : String ) : Boolean
13117:   SIRegister_TApplicationFileIO(CL);
13118:   TDataFileCapability', '( dfcRead, dfcWrite )
13119:   TDataFileCapabilities', 'set of TDataFileCapability
13120:   SIRegister_TDataFile(CL);
13121: //TDataFileClass', 'class of TDataFile
13122: Function ApplicationFileIODefined : Boolean
13123: Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13124: Function FileStreamExists(const fileName: String) : Boolean
13125: //Procedure Register
13126: end;
13127:
13128: procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13129: begin
13130:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13131:   +' , uftCstring, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13132:   +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13133:   TALFBXScale', 'Integer
13134:   FindClass('TOBJECT'), 'EALFBXConvertError
13135:   SIRegister_EALFBXError(CL);
13136:   SIRegister_EALFBXException(CL);
13137:   FindClass('TOBJECT'), 'EALFBXGFixError
13138:   FindClass('TOBJECT'), 'EALFBXDSQLError
13139:   FindClass('TOBJECT'), 'EALFBXDynError
13140:   FindClass('TOBJECT'), 'EALFBXBakError
13141:   FindClass('TOBJECT'), 'EALFBXGSecError
13142:   FindClass('TOBJECT'), 'EALFBXLicenseError
13143:   FindClass('TOBJECT'), 'EALFBXGStatError
13144: //EALFBXExceptionClass', 'class of EALFBXError
13145: TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13146:   +'37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13147:   +'csEUCJ_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13148:   +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13149:   +' csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13150:   +'SDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13151:   +'4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13152:   +'8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13153: TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13154:   +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13155:   +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13156:   +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13157: TALFBXTransParams', 'set of TALFBXTransParam
13158: Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13159: Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13160: Function ALFBXCreatetBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13161: 'cALFBXMaxParamLength', 'LongInt'( 125 );
13162: TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13163: TALFBXParamsFlags', 'set of TALFBXParamsFlag
13164: //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13165: //PALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13166: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete, '
13167:   +'stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis'
13168:   +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13169: SIRegister_TALFBXSQLDA(CL);
13170: //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13171: SIRegister_TALFBXPoolStream(CL);
13172: //PALFBXBlobData', '^TALFBXBlobData // will not work
13173: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13174: //PALFBXArrayDesc', '^TALFBXArrayDesc // will not work
13175: //TALFBXArrayDesc', 'TISCArrayDesc
13176: //TALFBXBlobDesc', 'TISCBlobDesc
13177: //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13178: //PALFBXArrayIndex', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13179: SIRegister_TALFBXSQLResult(CL);
13180: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13181: SIRegister_TALFBXSQLParams(CL);
13182: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13183: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13184:   +'atementType : TALFBXStatementType; end
13185: FindClass('TOBJECT'), 'TALFBXLibrary

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13186: //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13187: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13188: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13189: +' Excep : EALFBXExceptionClass)
13190: SIRegister_TALFBXLibrary(CL);
13191: 'cALFBXDateOffset', 'LongInt'( 15018);
13192: 'cALFBXTimeCoeff', 'LongInt'( 864000000);
13193: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double);
13194: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out TimeStamp : TTimeStamp);
13195: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp) : Double;
13196: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word)
13197: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13198: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp);
13199: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp);
13200: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp);
13201: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer) : Integer
13202: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord) : Cardinal
13203: TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prigno )
13204: TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13205: Function ALFBXSQLQuote( const name : AnsiString) : AnsiString
13206: Function ALFBXSQLUnQuote( const name : AnsiString) : AnsiString
13207: end;
13208:
13209: procedure SIRegister_ALFBXClient(CL: TPSPPascalCompiler);
13210: begin
13211:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13212:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13213:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13214:     +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13215:     +'teger; First : Integer; CacheThreshold : Integer; end
13216:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13217:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13218:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13219:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13220:     +'_writes : int64; page_fetches : int64; page_marks : int64; end
13221:   SIRegister_TALFBXClient(CL);
13222:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13223:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13224:   SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13225:   SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13226:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13227:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13228:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13229:   SIRegister_TALFBXConnectionPoolClient(CL);
13230:   SIRegister_TALFBXEventThread(CL);
13231:   Function AlMySqlClientSlashedStr( const Str : AnsiString) : AnsiString
13232: end;
13233:
13234: procedure SIRegister_ovcBidi(CL: TPSPPascalCompiler);
13235: begin
13236:   _OSVERSIONINFOA = record
13237:     dwOSVersionInfoSize: DWORD;
13238:     dwMajorVersion: DWORD;
13239:     dwMinorVersion: DWORD;
13240:     dwBuildNumber: DWORD;
13241:     dwPlatformId: DWORD;
13242:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13243:   end;
13244:   TOSVersionInfoA', '_OSVERSIONINFOA
13245:   TOSVersionInfo', 'TOSVersionInfoA
13246:   'WS_EX_RIGHT', 'LongWord')($00001000);
13247:   'WS_EX_LEFT', 'LongWord')($00000000);
13248:   'WS_EX_RTLREADING', 'LongWord')($00002000);
13249:   'WS_EX_LTRREADING', 'LongWord')($00000000);
13250:   'WS_EX_LEFTSCROLLBAR', 'LongWord')($00004000);
13251:   'WS_EX_RIGHTSCROLLBAR', 'LongWord')($00000000);
13252:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD) : BOOL
13253:   'LAYOUTRTL', 'LongWord')($00000001);
13254:   'LAYOUT_BTT', 'LongWord')($00000002);
13255:   'LAYOUT_VBH', 'LongWord')($00000004);
13256:   'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord')($00000008);
13257:   'NOMIRRORBITMAP', 'LongWord')((DWORD($80000000)));
13258:   Function SetLayout( dc : HDC; dwLayout : DWORD) : DWORD
13259:   Function GetLayout( dc : hdc) : DWORD
13260:   Function IsBidi : Boolean
13261:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo) : BOOL
13262:   Function GetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
13263:   Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD) : BOOL
13264:   Function GetPriorityClass( hProcess : THandle) : DWORD
13265:   Function OpenClipboard( hWndNewOwner : HWnd) : BOOL
13266:   Function CloseClipboard : BOOL
13267:   Function GetClipboardSequenceNumber : DWORD
13268:   Function GetClipboardOwner : HWnd
13269:   Function SetClipboardViewer( hWndNewViewer : HWnd) : HWnd
13270:   Function GetClipboardViewer : HWnd
13271:   Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWnd) : BOOL
13272:   Function SetClipboardData( uFormat : UINT; hMem : THandle) : THandle
13273:   Function GetClipboardData( uFormat : UINT) : THandle
13274:   Function RegisterClipboardFormat( lpszFormat : PChar) : UINT

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

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13364: procedure SIRегистер_MakeApp(CL: TPSPPascalCompiler);
13365: begin
13366:   aZero', 'LongInt'( 0 );
13367:   'makeappDEF', 'LongInt'( - 1 );
13368:   'CS_VREDRAW', 'LongInt'( DWORD( 1 ) );
13369:   'CS_HREDRAW', 'LongInt'( DWORD( 2 ) );
13370:   'CS_KEYCVTWINDOW', 'LongInt'( 4 );
13371:   'CS_DBLCLKS', 'LongInt'( 8 );
13372:   'CS_OWNDC', 'LongWord')( $20 );
13373:   'CS_CLASSDC', 'LongWord')( $40 );
13374:   'CS_PARENTDC', 'LongWord')( $80 );
13375:   'CS_NOKEYCWT', 'LongWord')( $100 );
13376:   'CS_NOCLOSE', 'LongWord')( $200 );
13377:   'CS_SAVEBITS', 'LongWord')( $800 );
13378:   'CS_BYTEALIGNCLIENT', 'LongWord')( $1000 );
13379:   'CS_BYTEALIGNWINDOW', 'LongWord')( $2000 );
13380:   'CS_GLOBALCLASS', 'LongWord')( $4000 );
13381:   'CS_IME', 'LongWord')( $10000 );
13382:   'CS_DROPSHADOW', 'LongWord')( $20000 );
13383:   //TPanelFunc // will not work
13384:   TPanelStyle', '( psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13385:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13386:   TFontLooks', 'set of TFontLook
13387:   TMessagefunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer)
13388:   Function SetWinClass(const ClassName:String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13389:   Function SetWinClassO( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13390:   Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer ) : Word
13391:   Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13392:   Procedure RunMsgLoop( Show : Boolean )
13393:   Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13394:   Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int
13395:   Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13396:   Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13397:   Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int
13398:   Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13399:   Function id4menu( a, b : Byte; c : Byte; d : Byte ) : Cardinal
13400:   Procedure DoInitMakeApp //set first to init formclasscontrol!
13401: end;
13402:
13403: procedure SIRегистер_ScreenSaver(CL: TPSPPascalCompiler);
13404: begin
13405:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13406:   +'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13407:   TScreenSaverOptions', 'set of TScreenSaverOption
13408:   'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13409:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13410:   SIRегистер_TScreenSaver(CL);
13411:   //Procedure Register
13412:   Procedure SetScreenSaverPassword
13413: end;
13414:
13415: procedure SIRегистер_XCollection(CL: TPSPPascalCompiler);
13416: begin
13417:   FindClass('TOBJECT'), 'TXCollection
13418:   SIRегистер_EFilerException(CL);
13419:   SIRегистер_TXCollectionItem(CL);
13420:   //TXCollectionItemClass', 'class of TXCollectionItem
13421:   SIRегистер_TXCollection(CL);
13422:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13423:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13424:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13425:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13426:   Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13427:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13428: end;
13429:
13430: procedure SIRегистер_XOpenGL(CL: TPSPPascalCompiler);
13431: begin
13432:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13433:   Procedure xglMapTexCoordToNull
13434:   Procedure xglMapTexCoordToMain
13435:   Procedure xglMapTexCoordToSecond
13436:   Procedure xglMapTexCoordToDual
13437:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13438:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13439:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13440:   Procedure xglBeginUpdate
13441:   Procedure xglEndUpdate
13442:   Procedure xglPushState
13443:   Procedure xglPopState
13444:   Procedure xglForbidSecondTextureUnit
13445:   Procedure xglAllowSecondTextureUnit
13446:   Function xglGetBitWiseMapping : Cardinal
13447: end;
13448:
13449: procedure SIRегистер_VectorLists(CL: TPSPPascalCompiler);

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13450: begin
13451:   TBaseListOption', '(< bloExternalMemory, bloSetCountResetsMemory)
13452:   TBaseListOptions', 'set of TBaseListOption
13453:   SIRegister_TBaseList(CL);
13454:   SIRegister_TBaseVectorList(CL);
13455:   SIRegister_TAffineVectorList(CL);
13456:   SIRegister_TVectorList(CL);
13457:   SIRegister_TTexPointList(CL);
13458:   SIRegister_TXIntegerList(CL);
13459:   //PSingleArrayList', '^TSingleArrayList // will not work
13460:   SIRegister_TSingleList(CL);
13461:   SIRegister_TByteList(CL);
13462:   SIRegister_TQuaternionList(CL);
13463:   Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13464:   Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13465:   Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13466: end;
13467:
13468: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13469: begin
13470:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13471:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13472:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13473:   Procedure ConvertIndexedListToList( const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList );
13474:   Function BuildVectorCountOptimizedIndices( const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texcoords : TAffineVectorList ) : TIntegerList;
13475:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13476:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13477:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList );
13478:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList;
13479:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList );
13480:   Procedure RemapIndices( indices, indicesMap : TIntegerList );
13481:   Procedure UnifyTrianglesWinding( indices : TIntegerList );
13482:   Procedure InvertTrianglesWinding( indices : TIntegerList );
13483:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList;
13484:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList ) : TIntegerList;
13485:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single );
13486:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):TPersistentObjectList;
13487:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer );
13488:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList;
normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent );
13489: end;
13490:
13491: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13492: begin
13493:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte );
13494:   Procedure FreeMemAndNil( var P : TObject );
13495:   Function PCharOrNil( const S : string ) : PChar;
13496:   SIRegister_TJclReferenceMemoryStream(CL);
13497:   FindClass('TOBJECT'), 'EJclVMTError
13498:   {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13499:   Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13500:   Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer )
13501:   PDYNAMICINDEXLIST', '^TDYNAMICINDEXLIST // will not work
13502:   PDYNAMICADDRESSLIST', '^TDYNAMICADDRESSLIST // will not work
13503:   Function GetDynamicMethodCount( AClass : TClass ) : Integer
13504:   Function GetDynamicIndexList( AClass : TClass ) : PDYNAMICINDEXLIST
13505:   Function GetDynamicAddressList( AClass : TClass ) : PDYNAMICADDRESSLIST
13506:   Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13507:   Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13508:   Function GetInitTable( AClass : TClass ) : PTyepInfo
13509:   PFIELDENTRY', '^TFieldEntry // will not work
13510:   TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13511:   Function JIsClass( Address : Pointer ) : Boolean;
13512:   Function JIsObject( Address : Pointer ) : Boolean;
13513:   Function GetImplementorOfInterface( const I : IInterface ) : TObject
13514:   TDigitCount', 'Integer
13515:   SIRegister_TJclNumericFormat(CL);
13516:   Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13517:   TTextHandler', 'Procedure ( const Text : string )
13518: // 'ABORT_EXIT_CODE', 'LongInt'( ERROR_CANCELLED 1223 );
13519:   Function JExecute(const
CommandLine:string'OutputLineCallback:TTextHandler;RawOutput:Bool;AbortPtr:PBool):Cardinal;
13520:   Function JExecute1(const CommandLine:string'var Output:string'; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13521:   Function ReadKey : Char //to and from the DOS console !
13522:   TModuleHandle', 'HINST
13523:   //TModuleHandle', 'Pointer
13524:   'INVALID_MODULEHANDLE_VALUE', 'LongInt'( TModuleHandle ( 0 ) );
13525:   Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13526:   Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13527:   Procedure UnloadModule( var Module : TModuleHandle )
13528:   Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13529:   Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13530:   Function ReadModuleData(Module:TModuleHandle;SymbolName:string'var Buffer,Size: Cardinal):Boolean;

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13531: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13532: FindClass('TOBJECT'),'EJclConversionError'
13533: Function JStrToBoolean( const S : string ) : Boolean
13534: Function JBooleanToStr( B : Boolean ) : string
13535: Function JIntToBool( I : Integer ) : Boolean
13536: Function JBoolToInt( B : Boolean ) : Integer
13537: 'ListSeparator','String ';
13538: 'ListSeparator1','String ';
13539: Procedure ListAddItems( var List : string; const Separator, Items : string)
13540: Procedure ListIncludeItems( var List : string; const Separator, Items : string)
13541: Procedure ListRemoveItems( var List : string; const Separator, Items : string)
13542: Procedure ListDeleteItem( var List : string; const Separator : string; const Index : Integer)
13543: Function ListItemCount( const List, Separator : string ) : Integer
13544: Function ListItem( const List, Separator : string; const Index : Integer ) : string
13545: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13546: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13547: Function SystemToObjectInstance : LongWord
13548: Function IsCompiledWithPackages : Boolean
13549: Function JJclGUIDToString( const GUID : TGUID ) : string
13550: Function JJclStringToGUID( const S : string ) : TGUID
13551: SIRegister_TJclIntfCriticalSection(CL);
13552: SIRegister_TJclSimpleLog(CL);
13553: Procedure InitSimpleLog( const ALogFileFileName : string )
13554: end;
13555:
13556: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13557: begin
13558:   FindClass('TOBJECT'),'EJclBorRADException'
13559:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13560:   TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )
13561:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )
13562:   TJclBorRADToolPath', 'string
13563: 'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13564: 'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11);
13565: 'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5);
13566: BorRADToolRepositoryPagesSection','String 'Repository Pages
13567: BorRADToolRepositoryDialogsPage','String 'Dialogs
13568: BorRADToolRepositoryFormsPage','String 'Forms
13569: BorRADToolRepositoryProjectsPage','String 'Projects
13570: BorRADToolRepositoryDataModulesPage','String 'Data Modules
13571: BorRADToolRepositoryObjectType','String 'Type
13572: BorRADToolRepositoryFormTemplate','String 'FormTemplate
13573: BorRADToolRepositoryProjectTemplate','String 'ProjectTemplate
13574: BorRADToolRepositoryObjectName','String 'Name
13575: BorRADToolRepositoryObjectPage','String 'Page
13576: BorRADToolRepositoryObjectIcon','String 'Icon
13577: BorRADToolRepositoryObjectDescr','String 'Description
13578: BorRADToolRepositoryObjectAuthor','String 'Author
13579: BorRADToolRepositoryObjectAncestor','String 'Ancestor
13580: BorRADToolRepositoryObjectDesigner','String 'Designer
13581: BorRADToolRepositoryDesignerDfm','String 'dfm
13582: BorRADToolRepositoryDesignerXfm','String 'xfm
13583: BorRADToolRepositoryObjectNewForm','String 'DefaultNewForm
13584: BorRADToolRepositoryObjectMainForm','String 'DefaultMainForm
13585: SourceExtensionDelphiPackage','String '.dpk
13586: SourceExtensionBCBPackage','String '.bpk
13587: SourceExtensionDelphiProject','String '.dpr
13588: SourceExtensionBCBProject','String '.bpr
13589: SourceExtensionBDSPackage','String '.bdsproj
13590: SourceExtensionDProject','String '.dproj
13591: BinaryExtensionPackage','String '.bpl
13592: BinaryExtensionLibrary','String '.dll
13593: BinaryExtensionExecutable','String '.exe
13594: CompilerExtensionDCP','String '.dcp
13595: CompilerExtensionBPI','String '.bpi
13596: CompilerExtensionLIB','String '.lib
13597: CompilerExtensionTDS','String '.tds
13598: CompilerExtensionMAP','String '.map
13599: CompilerExtensionDRC','String '.drc
13600: CompilerExtensionDEF','String '.def
13601: SourceExtensionCPP','String '.cpp
13602: SourceExtensionH','String '.h
13603: SourceExtensionPAS','String '.pas
13604: SourceExtensionDFM','String '.dfm
13605: SourceExtensionXFM','String '.xfm
13606: SourceDescriptionPAS','String 'Pascal source file
13607: SourceDescriptionCPP','String 'C++ source file
13608: DesignerVCL','String 'VCL
13609: DesignerCLX','String 'CLX
13610: ProjectTypePackage','String 'package
13611: ProjectTypeLibrary','String 'library
13612: ProjectTypeProgram','String 'program
13613: Personality32Bit','String '32 bit
13614: Personality64Bit','String '64 bit
13615: PersonalityDelphi','String 'Delphi
13616: PersonalityDelphiDotNet','String 'Delphi.net
13617: PersonalityBCB','String 'C++Builder
13618: PersonalityCSB','String 'C#Builder
13619: PersonalityVB','String 'Visual Basic

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

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13707: Function jxPathAppend( const Path, Append : string ) : string
13708: Function jxPathBuildRoot( const Drive : Byte ) : string
13709: Function jxPathCanonicalize( const Path : string ) : string
13710: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13711: Function jxPathCompactPath( const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13712: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
13713: Function jxPathExtractFileDirFixed( const S : string ) : string
13714: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13715: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13716: Function jxPathGetDepth( const Path : string ) : Integer
13717: Function jxPathGetLongName( const Path : string ) : string
13718: Function jxPathGetShortName( const Path : string ) : string
13719: Function jxPathGetLongName( const Path : string ) : string
13720: Function jxPathGetShortName( const Path : string ) : string
13721: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13722: Function jxPathGetTempPath : string
13723: Function jxPathIsAbsolute( const Path : string ) : Boolean
13724: Function jxPathIsChild( const Path, Base : string ) : Boolean
13725: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13726: Function jxPathIsUNC( const Path : string ) : Boolean
13727: Function jxPathRemoveSeparator( const Path : string ) : string
13728: Function jxPathRemoveExtension( const Path : string ) : string
13729: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13730: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13731: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13732: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13733: TFileHandler', 'Procedure ( const FileName : string )
13734: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec )
13735: BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13736: //Function AdvDblFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
13737: AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
13738: FileMatchFunc:TFileMatchFunc):Bool;
13739: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13740: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13741: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13742: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
13743: RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13744: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
13745: IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13746: Procedure jxCreateEmptyFile( const FileName : string )
13747: Function jxCloseVolume( var Volume : THandle ) : Boolean
13748: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13749: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13750: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13751: Function jxDelTree( const Path : string ) : Boolean
13752: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13753: Function jxDiskInDrive( Drive : Char ) : Boolean
13754: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13755: Function jxFileCreateTemp( var Prefix : string ) : THandle
13756: Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13757: Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13758: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13759: Function jxFileExists( const FileName : string ) : Boolean
13760: Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13761: Function jxFileRestore( const FileName : string ) : Boolean
13762: Function jxIsBackupFileName( const FileName : string ) : Boolean
13763: Function jxFileGetDisplayName( const FileName : string ) : string
13764: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13765: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13766: Function jxFileGetSize( const FileName : string ) : Int64
13767: Function jxFileGetTempName( const Prefix : string ) : string
13768: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13769: Function jxForceDirectories( Name : string ) : Boolean
13770: Function jxGetDirectorySize( const Path : string ) : Int64
13771: Function jxGetDriveTypeStr( const Drive : Char ) : string
13772: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13773: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13774: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13775: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13776: Function jxGetFileInfo( const FileName : string ) : TSearchRec;
13777: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
13778: ResolveSymLinks:Boolean):Integer
13779: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13780: Function jxGetFileLastAccess( const FName : string; out LocalTime : TDateTime ) : Boolean;
13781: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13782: Function jxGetFileCreation( const FName : string ) : TFileTime;
13783: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13784: Function jxGetFileLastWrite1( const FName : string; out TimeStamp:Integer;ResolveSymLinks : Bool ):Bool;
13785: Function jxGetFileLastWrite1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool ): Bool;
13786: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13787: Function jxGetFileLastAccess( const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool ): Bool;
13788: Function jxGetFileLastAccess1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool ):Bool;
13789: Function jxGetFileLastAccess2( const FName:string; ResolveSymLinks:Boolean ) : Integer;
13790: Function jxGetFileLastAttrChange( const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool ) : Bool;

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13791: Function jxGetFileLastAttrChange1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool ) : Bool;
13792: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks:Boolean) : Integer;
13793: Function jxGetModulePath( const Module : HMODULE ) : string;
13794: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13795: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13796: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13797: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileAttributeData;
13798: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean) : Boolean;
13799: Function jxIsRootDirectory( const CanonicalFileName : string ) : Boolean;
13800: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean;
13801: Function jxOpenVolume( const Drive : Char ) : THandle;
13802: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean;
13803: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean;
13804: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean;
13805: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean;
13806: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean;
13807: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean;
13808: Procedure jxShredFile( const FileName : string; Times : Integer );
13809: Function jxUnlockVolume( var Handle : THandle ) : Boolean;
13810: Function jxCreatSymbolicLink( const Name, Target : string ) : Boolean;
13811: Function jxSymbolicLinkTarget( const Name : string ) : string;
13812: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )';
13813: SIRegister_TJclCustomfileAttrMask(CL);
13814: SIRegister_TJclFileAttributeMask(CL);
13815: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHidden$';
13816: +'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)';
13817: TFileSearchOptions', 'set of TFileSearchOption';
13818: TFileSearchTaskID', 'Integer;
13819: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc';
13820: +'hTaskID; const Aborted : Boolean)';
13821: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )';
13822: SIRegister_IJclFileEnumerator(CL);
13823: SIRegister_TJclFileEnumerator(CL);
13824: Function JxFileSearch : IJclFileEnumerator;
13825: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )';
13826: JxTFileFlags', 'set of TFileFlag';
13827: FindClass('TOBJECT'), 'EJclFileVersionInfoError';
13828: SIRegister_TJclFileVersionInfo(CL);
13829: Function jxOSIdentToString( const OSIdent : DWORD ) : string;
13830: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string;
13831: Function jxVersionResourceAvailable( const FileName : string ) : Boolean;
13832: TFileVersionFormat', '( vfMajorMinor, vfFull )';
13833: Function jxFormatVersionString( const HiV, Lov : Word ) : string;
13834: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13835: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo; VersionFormat:TFFileVersionFormat):str;
13836: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13837: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
13838: Revision:Word);
13838: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo ) : Boolean;
13839: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
13840: NotAvailableText : string ) : string;
13841: SIRegister_TJclTempFileStream(CL);
13842: FindClass('TOBJECT'), 'TJclCustomFileMapping';
13843: SIRegister_TJclFileMappingView(CL);
13844: TJclFileMappingRoundOffset', '( rvDown, rvUp )';
13845: SIRegister_TJclCustomfileMapping(CL);
13846: SIRegister_TJclSwapFileMapping(CL);
13847: SIRegister_TJclFileMappingStream(CL);
13848: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )';
13849: //PPCharArray', '^TPCharArray // will not work';
13850: SIRegister_TJclMappedTextReader(CL);
13851: SIRegister_TJclFileMaskComparator(CL);
13852: FindClass('TOBJECT'), 'EJclPathError';
13853: FindClass('TOBJECT'), 'EJclFileUtilsError';
13854: FindClass('TOBJECT'), 'EJclTempFileStreamError';
13855: FindClass('TOBJECT'), 'EJclTempFileStreamError';
13856: FindClass('TOBJECT'), 'EJclFileMappingError';
13857: FindClass('TOBJECT'), 'EJclFileMappingViewError';
13858: Function jxPathGetLongName2( const Path : string ) : string;
13859: Function jxWin32Deletefile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean;
13860: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean;
13861: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean;
13862: Function jxWin32RestoreFile( const FileName : string ) : Boolean;
13863: Function jxSamePath( const Path1, Path2 : string ) : Boolean;
13864: Procedure jxPathListAddItems( var List : string; const Items : string );
13865: Procedure jxPathListIncludeItems( var List : string; const Items : string );
13866: Procedure jxPathListDeleteItems( var List : string; const Items : string );
13867: Procedure jxPathListDeleteItem( var List : string; const Index : Integer );
13868: Function jxPathListItemCount( const List : string ) : Integer;
13869: Function jxPathListGetItem( const List : string; const Index : Integer ) : string;
13870: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string );
13871: Function jxPathListItemIndex( const List, Item : string ) : Integer;
13872: Function jxParamName(Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string;
13873: Function jxParamValue(Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13874: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
13875: AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13875: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
13875: AllowedPrefixCharacters : string ) : Integer;

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13876: end;
13877:
13878: procedure SIRegister_FileUtil(CL: TPSPascalCompiler);
13879: begin
13880:   'UTF8FileHeader','String #$ef#$bb#$bf';
13881:   Function lCompareFilenames( const Filenam1, Filenam2 : string) : integer
13882:   Function lCompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string) : integer
13883:   Function lCompareFilenames( const Filenam1, Filenam2 : string; ResolveLinks : boolean) : integer
13884:   Function lCompareFilenames(Filenam1:PChar;Len1:int;Filenam2:PChar;Len2:int;ResolveLinks:boolean):int;
13885:   Function lFilenameIsAbsolute( const Thefilename : string) : boolean
13886:   Function lFilenameIsWinAbsolute( const Thefilename : string) : boolean
13887:   Function lFilenameIsUnixAbsolute( const Thefilename : string) : boolean
13888:   Procedure lCheckIfFileIsExecutable( const Afilename : string)
13889:   Procedure lCheckIfFileIsSymlink( const Afilename : string)
13890:   Function lFileIsReadable( const Afilename : string) : boolean
13891:   Function lFileIsWritable( const Afilename : string) : boolean
13892:   Function lFileIsText( const Afilename : string) : boolean
13893:   Function lFileIsText( const Afilename : string; out FileReadable : boolean) : boolean
13894:   Function lFileIsExecutable( const Afilename : string) : boolean
13895:   Function lFileIsSymlink( const Afilename : string) : boolean
13896:   Function lFileIsHardLink( const Afilename : string) : boolean
13897:   Function lFileSize( const Filenam : string) : int64;
13898:   Function lGetFileDescription( const Afilename : string) : string
13899:   Function lReadAllLinks( const Filenam : string; ExceptionOnError : boolean) : string
13900:   Function lTryReadAllLinks( const Filenam : string) : string
13901:   Function lDirPathExists( const FileName : String) : Boolean
13902:   Function lForceDirectory( DirectoryName : string) : boolean
13903:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean) : boolean
13904:   Function lProgramDirectory : string
13905:   Function lDirectoryIsWritable( const DirectoryName : string) : boolean
13906:   Function lExtractFileNameOnly( const Afilename : string) : string
13907:   Function lExtractFileNameWithoutExt( const Afilename : string) : string
13908:   Function lCompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean) : integer;
13909:   Function lCompareFileExt( const Filenam, Ext : string) : integer;
13910:   Function lFilenameIsPascalUnit( const Filenam : string) : boolean
13911:   Function lAppendPathDelim( const Path : string) : string
13912:   Function lChompPathDelim( const Path : string) : string
13913:   Function lTrimFilename( const Afilename : string) : string
13914:   Function lCleanAndExpandFilename( const Filenam : string) : string
13915:   Function lCleanAndExpandDirectory( const Filenam : string) : string
13916:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
13917:   Function lCreateRelativePath( const Filenam, BaseDirectory : string; UsePointDirectory : boolean;
  AlwaysRequireSharedBaseFolder : Boolean) : string
13918:   Function lCreateAbsolutePath( const Filenam, BaseDirectory : string) : string
13919:   Function lFileIsInPath( const Filenam, Path : string) : boolean
13920:   Function lFileIsInDirectory( const Filenam, Directory : string) : boolean
13921:   TSearchFileInPathFlag', '( sffDontSearchInBasePath, sffSearchLoUpCase )
13922:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13923:   'AllDirectoryEntriesMask','String '*
13924:   Function l GetAllFilesMask : string
13925:   Function lGetExeExt : string
13926:   Function lSearchFileInPath( const Filenam, basePath, SearchPath, Delimiter : string; Flags : TSearchFileInPathFlags ) : string
13927:   Function lSearchAllFilesInPath( const Filenam, basePath, SearchPath, Delimiter:string;Flags : TSearchFileInPathFlags ) : TStrings
13928:   Function lFindDiskFilename( const Filenam : string) : string
13929:   Function lFindDiskFileCaseInsensitive( const Filenam : string) : string
13930:   Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13931:   Function lGetDarwinSystemFilename( Filenam : string) : string
13932:   SIRegister_TFileIterator(CL);
13933:   TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13934:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13935:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator)
13936:   SIRegister_TFileSearcher(CL);
13937:   Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13938:   Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
13939:   // TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13940:   // TCopyFileFlags', 'set of TCopyFileFlag
13941:   Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13942:   Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13943:   Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13944:   Function lReadFileToString( const Filenam : string) : string
13945:   Function lGetTempFilename( const Directory, Prefix : string) : string
13946:   {Function NeedRTLAnsi : boolean
13947:   Procedure SetNeedRTLAnsi( NewValue : boolean)
13948:   Function UTF8ToSys( const s : string) : string
13949:   Function SysToUTF8( const s : string) : string
13950:   Function ConsoleToUTF8( const s : string) : string
13951:   Function UTF8ToConsole( const s : string) : string
13952:   Function FileExistsUTF8( const Filenam : string) : boolean
13953:   Function FileAgeUTF8( const FileName : string) : Longint
13954:   Function DirectoryExistsUTF8( const Directory : string) : Boolean
13955:   Function ExpandFileNameUTF8( const FileName : string) : string
13956:   Function ExpandUNCFileNameUTF8( const FileName : string) : string
13957:   Function ExtractShortPathNameUTF8( const FileName : String) : String
13958:   Function FindFirstUTF8(const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13959:   Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13960:   Procedure FindCloseUTF8( var F : TSearchrec)
13961:   Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint

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13962: Function FileGetAttrUTF8( const FileName : String ) : Longint
13963: Function FileSetAttrUTF8( const Filename : String; Attr : longint ) : Longint
13964: Function DeleteFileUTF8( const FileName : String ) : Boolean
13965: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
13966: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
13967: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
13968: Function GetCurrentDirUTF8 : String
13969: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean
13970: Function CreateDirUTF8( const NewDir : String ) : Boolean
13971: Function RemoveDirUTF8( const Dir : String ) : Boolean
13972: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean
13973: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
13974: Function FileCreateUTF8( const FileName : string; Rights : Cardinal ) : THandle;
13975: Function ParamStrUTF8( Param : Integer ) : string
13977: Function GetEnvironmentStringUTF8( Index : Integer ) : string
13978: Function GetEnvironmentVariableUTF8( const EnvVar : string ) : String
13979: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
13980: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean ) : string
13981: Function SysErrorMessageUTF8( ErrorCode : Integer ) : String
13982: end;
13983:
13984: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13985: begin
13986:   //VK_F23 = 134;
13987:   //{$EXTERNALSYM VK_F24}
13988:   //VK_F24 = 135;
13989:   TVirtualKeyCode', 'Integer
13990:   'VK_MOUSEWHEELUP','integer'(134);
13991:   'VK_MOUSEWHEELDOWN','integer'(135);
13992:   Function glIsKeyDown( c : Char ) : Boolean;
13993:   Function glIsKeyDown1( vk : TVirtualKeyCode ) : Boolean;
13994:   Function glKeyPressed( minVkeyCode : TVirtualKeyCode ) : TVirtualKeyCode
13995:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode ) : String
13996:   Function glKeyNameToVirtualKeyCode( const keyName : String ) : TVirtualKeyCode
13997:   Function glCharToVirtualKeyCode( c : Char ) : TVirtualKeyCode
13998:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer )
13999: end;
14000:
14001: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
14002: begin
14003:   TGLPoint', 'TPoint
14004:   //PGLPoint', '^TGLPoint // will not work
14005:   TGLRect', 'TRect
14006:   //PGLRect', '^TGLRect // will not work
14007:   TDelphiColor', 'TColor
14008:   TGLPicture', 'TPicture
14009:   TGLGraphic', 'TGraphic
14010:   TGLBitmap', 'TBitmap
14011:   //TGraphicClass', 'class of TGraphic
14012:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
14013:   TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
14014:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
14015:   +'Button; Shift : TShiftState; X, Y : Integer)
14016:   TGLMouseMoveEvent', 'TMouseEvent
14017:   TGLKeyEvent', 'TKeyEvent
14018:   TGLKeyPressEvent', 'TKeyPressEvent
14019:   EGLOSError', 'EWin32Error
14020:   EGLOSError', 'EWin32Error
14021:   EGLOSError', 'EOSError
14022:   'glsAllFilter', 'string'All // $AllFilter
14023:   Function GLPoint( const x, y : Integer ) : TGLPoint
14024:   Function GLRGB( const r, g, b : Byte ) : TColor
14025:   Function GLColorToRGB( color : TColor ) : TColor
14026:   Function GLGetRValue( rgb : DWORD ) : Byte
14027:   Function GLGetGValue( rgb : DWORD ) : Byte
14028:   Function GLGetBValue( rgb : DWORD ) : Byte
14029:   Procedure GLInitWinColors
14030:   Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
14031:   Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer )
14032:   Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
14033:   Procedure GLInformationDlg( const msg : String )
14034:   Function GLQuestionDlg( const msg : String ) : Boolean
14035:   Function GLInputDlg( const aCaption, aPrompt, aDefault : String ) : String
14036:   Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
14037:   Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
14038:   Function GLApplicationTerminated : Boolean
14039:   Procedure GLRaiseLastOSError
14040:   Procedure GLFreeAndNil( var anObject : TObject )
14041:   Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
14042:   Function GLGetCurrentColorDepth : Integer
14043:   Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
14044:   Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
14045:   Procedure GLSleep( length : Cardinal )
14046:   Procedure GLQueryPerformanceCounter( var val : Int64 )
14047:   Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
14048:   Function GLStartPrecisionTimer : Int64
14049:   Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
14050:   Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double

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14051: Function GLRDTSC : Int64
14052: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string)
14053: Function GLOKMessageBox( const Text, Caption : string) : Integer
14054: Procedure GLShowHTMLUrl( Url : String)
14055: Procedure GLShowCursor( AShow : boolean)
14056: Procedure GLSetCursorPos( AScreenX, AScreenY : integer)
14057: Procedure GLGetCursorPos( var point : TGLPoint)
14058: Function GLGetScreenWidth : integer
14059: Function GLGetScreenHeight : integer
14060: Function GLGetTickCount : int64
14061: function RemoveSpaces(const str : String) : String;
14062: TNormalMapSpace'( nmsObject, nmsTangent )
14063: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
14064: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList)
14065: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals :
TAffineVectorList; Colors : TVectorList)
14066: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
HiTexCoords:TAffineVectorList):TGLBitmap
14067: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
14068: end;
14069:
14070: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
14071: begin
14072:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
14073: // PGLStarRecord', '^TGLStarRecord // will not work
14074: Function StarRecordPositionZUp( const starRecord : TGLStarRecord) : TAffineVector
14075: Function StarRecordPositionYUp( const starRecord : TGLStarRecord) : TAffineVector
14076: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
14077: end;
14078:
14079:
14080: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14081: begin
14082:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14083: //PAABB', '^TAABB // will not work
14084: TBSphere', 'record Center : TAffineVector; Radius : single; end
14085: TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
14086: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14087: Function AddBB( var cl : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14088: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB)
14089: Procedure SetBB( var c : THmgBoundingBox; const v : TVector)
14090: Procedure SetAABB( var bb : TAABB; const v : TVector)
14091: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix)
14092: Procedure AABBTTransform( var bb : TAABB; const m : TMatrix)
14093: Procedure AABBScale( var bb : TAABB; const v : TAffineVector)
14094: Function BBMinX( const c : THmgBoundingBox ) : Single
14095: Function BBMaxX( const c : THmgBoundingBox ) : Single
14096: Function BBMinY( const c : THmgBoundingBox ) : Single
14097: Function BBMaxY( const c : THmgBoundingBox ) : Single
14098: Function BBMinZ( const c : THmgBoundingBox ) : Single
14099: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14100: Procedure AABBIInclude( var bb : TAABB; const p : TAffineVector)
14101: Procedure AABBFfromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single)
14102: Function AABBIIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14103: Function BBTToAABB( const aBB : THmgBoundingBox ) : TAABB
14104: Function AABBTToBB( const anAABB : TAABB ) : THmgBoundingBox
14105: Function AABBTToBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox
14106: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector);
14107: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector);
14108: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14109: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14110: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14111: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14112: Function AABBfitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14113: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14114: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14115: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14116: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14117: Procedure ExtractAABB_corners( const AABB : TAABB; var AABBCorners : TAABBCorners)
14118: Procedure AABBToSphere( const ABB : TAABB; var BSphere : TBSphere)
14119: Procedure BSphereToAABB( const BSphere : TBSphere; var ABB : TAABB );
14120: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14121: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14122: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14123: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains
14124: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14125: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14126: Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
testBSphere:TBSphere):TSpaceContains
14127: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14128: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14129: Function ClipToAABB( const v : TAffineVector; const ABB : TAABB ) : TAffineVector
14130: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14131: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single)
14132: Function AABBToclipRect(const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
viewportSizeY:Int):TClipRect
14133: end;
14134:

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14135: procedure SIRegister_GeometryCoordinates(CL: TPSPPascalCompiler);
14136: begin
14137:   Procedure Cylindrical_Cartesian( const r, theta, zl : single; var x, y, z : single);
14138:   Procedure Cylindrical_Cartesian1( const r, theta, zl : double; var x, y, z : double);
14139:   Procedure Cylindrical_Cartesian2( const r,theta,zl : single; var x, y, z : single; var ierr : integer);
14140:   Procedure Cylindrical_Cartesian3( const r,theta,zl : double; var x, y, z : double; var ierr : integer);
14141:   Procedure Cartesian_Cylindrical( const x, y, zl : single; var r, theta, z : single);
14142:   Procedure Cartesian_Cylindrical1( const x, y, zl : double; var r, theta, z : double);
14143:   Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single);
14144:   Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double);
14145:   Procedure Spherical_Cartesian2( const r,theta, phi : single; var x, y, z : single; var ierr : integer);
14146:   Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer);
14147:   Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single);
14148:   Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single);
14149:   Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double);
14150:   Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14151:   Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14152:   Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr: integer);
14153:   Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer);
14154:   Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14155:   Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14156:   Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer);
14157:   Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer);
14158:   Procedure BipolarCylindrical_Cartesian( const u, v, zl, a : single; var x, y, z : single);
14159:   Procedure BipolarCylindrical_Cartesian1( const u, v, zl, a : double; var x, y, z : double);
14160:   Procedure BipolarCylindrical_Cartesian2( const u,v,zl,a: single;var x,y,z:single; var ierr : integer);
14161:   Procedure BipolarCylindrical_Cartesian3( const u,v,zl,a: double;var x,y,z:double; var ierr : integer);
14162: end;
14163:
14164: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14165: begin
14166:   'EPSILON','Single').setExtended( 1e-40);
14167:   'EPSILON2','Single').setExtended( 1e-30);  }
14168:   TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14169:     +'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14170:   THmgPlane', 'TVector
14171:   TDoublleHmgPlane', 'THomogeneousDblVector
14172:   {TTransType', '({ ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14173:     +'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14174:     +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14175:   TSingleArray', 'array of Single
14176:   TTransformations', 'array [0..15] of Single)
14177:   TPackedRotationMatrix', 'array [0..2] of Smallint)
14178:   TVertex', 'TAffineVector
14179:   //TVectorGL', 'THomogeneousFltVector
14180:   //TMatrixGL', 'THomogeneousFltMatrix
14181:   // TPackedRotationMatrix = array [0..2] of SmallInt;
14182:   Function glTexPointMake( const s, t : Single) : TTExPoint
14183:   Function glAffineVectorMake( const x, y, z : Single) : TAffineVector;
14184:   Function glAffineVectorMakel( const v : TVectorGL) : TAffineVector;
14185:   Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single);
14186:   Procedure glSetVector( var v : TAffineVector; const x, y, z : Single);
14187:   Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL);
14188:   Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector);
14189:   Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector);
14190:   Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL);
14191:   Function glVectorMake( const v : TAffineVector; w : Single) : TVectorGL;
14192:   Function glVectorMake1( const x, y, z : Single; w : Single) : TVectorGL;
14193:   Function glPointMake( const x, y, z : Single) : TVectorGL;
14194:   Function glPointMakel( const v : TAffineVector) : TVectorGL;
14195:   Function glPointMake2( const v : TVectorGL) : TVectorGL;
14196:   Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single);
14197:   Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single);
14198:   Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL);
14199:   Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single);
14200:   Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector);
14201:   Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL);
14202:   Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single);
14203:   Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single);
14204:   Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector);
14205:   Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14206:   Procedure glRstVector( var v : TAffineVector);
14207:   Procedure glRstVector1( var v : TVectorGL);
14208:   Function glVectorAdd( const v1, v2 : TAffineVector) : TAffineVector;
14209:   Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector);
14210:   //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector);
14211:   Function glVectorAdd3( const v1, v2 : TVectorGL) : TVectorGL;
14212:   Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL);
14213:   Function glVectorAdd5( const v : TAffineVector; const f : Single) : TAffineVector;
14214:   Function glVectorAdd6( const v : TVectorGL; const f : Single) : TVectorGL;
14215:   Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector);
14216:   Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL);
14217:   Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL);
14218:   Procedure glAddVector10( var v : TAffineVector; const f : Single);
14219:   Procedure glAddVector11( var v : TVectorGL; const f : Single);
14220:   //Procedure TexPointArrayAdd(const src:PTexPointArray,const delta:TTexPoint,const
14221:   nb:Int;dest:PTexPointArray);
14221:   //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray,const delta:TTexPoint,const
14222:   nb:Integer;const scale: TTExPoint; dest : PTExPointArray);

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14222: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector,const nb:Integer;dest:
14223: PAffineVectorArray);
14224: Function glVectorSubtract( const V1, V2 : TAffineVector ) : TAffineVector;
14225: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector );
14226: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL );
14227: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL );
14228: Function glVectorSubtract4( const V1, V2 : TVectorGL ) : TVectorGL;
14229: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL );
14230: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector );
14231: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single ) : TAffineVector;
14232: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector );
14233: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL );
14234: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single );
14235: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat );
14236: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single ) : TTexPoint;
14237: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single ) : TAffineVector;
14238: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single ) : TAffineVector;
14239: Procedure glVectorCombine34( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single; var vr : TAffineVector );
14240: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single );
14241: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single );
14242: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single ) : TVectorGL;
14243: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1, F2 : Single ) : TVectorGL;
14244: Procedure glVectorCombine9( const V1 : TVectorGL; const V2 : TAffineVector; const F1, F2 : Single; var vr : TVectorGL );
14245: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL );
14246: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL );
14247: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single ) : TVectorGL;
14248: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single; var vr : TVectorGL );
14249: Function glVectorDotProduct( const V1, V2 : TAffineVector ) : Single;
14250: Function glVectorDotProduct1( const V1, V2 : TVectorGL ) : Single;
14251: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector ) : Single;
14252: Function glPointProject( const p, origin, direction : TAffineVector ) : Single;
14253: Function glPointProject1( const p, origin, direction : TVectorGL ) : Single;
14254: Function glVectorCrossProduct( const V1, V2 : TAffineVector ) : TAffineVector;
14255: Function glVectorCrossProduct1( const V1, V2 : TVectorGL ) : TVectorGL;
14256: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL );
14257: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL );
14258: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector );
14259: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector );
14260: Function glLerp( const start, stop, t : Single ) : Single;
14261: Function glAngleLerp( start, stop, t : Single ) : Single;
14262: Function glDistanceBetweenAngles( angle1, angle2 : Single ) : Single;
14263: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single ) : TTexPoint;
14264: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14265: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector );
14266: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single ) : TVectorGL;
14267: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL );
14268: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14269: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single ) : TAffineVector;
14270: // Procedure VectorArrayLerp( const src1, src2:PAffineVectorArray; t:Single; n:Integer; dest:PAffineVectorArray );
14271: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
14272: PAffineVectorArray );
14273: Function glVectorLength( const x, y : Single ) : Single;
14274: Function glVectorLength1( const x, y, z : Single ) : Single;
14275: Function glVectorLength2( const v : TAffineVector ) : Single;
14276: Function glVectorLength3( const v : TVectorGL ) : Single;
14277: Function glVectorLength4( const v : array of Single ) : Single;
14278: Function glVectorNorm( const x, y : Single ) : Single;
14279: Function glVectorNorm1( const v : TAffineVector ) : Single;
14280: Function glVectorNorm2( const v : TVectorGL ) : Single;
14281: Function glVectorNorm3( var V : array of Single ) : Single;
14282: Procedure glNormalizeVector( var v : TAffineVector );
14283: Procedure glNormalizeVector1( var v : TVectorGL );
14284: Function glVectorNormalize( const v : TAffineVector ) : TAffineVector;
14285: Function glVectorNormalize1( const v : TVectorGL ) : TVectorGL;
14286: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer );
14287: Function glVectorAngleCosine( const V1, V2 : TAffineVector ) : Single;
14288: Function glVectorNegate( const v : TAffineVector ) : TAffineVector;
14289: Procedure glVectorNegate1( const v : TVectorGL );
14290: Procedure glNegateVector( var V : TAffineVector );
14291: Procedure glNegateVector2( var V : TVectorGL );
14292: Procedure glNegateVector3( var V : array of Single );
14293: Procedure glScaleVector( var v : TAffineVector; factor : Single );
14294: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector );
14295: Procedure glScaleVector2( var v : TVectorGL; factor : Single );
14296: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL );
14297: Function glVectorScale( const v : TAffineVector; factor : Single ) : TAffineVector;
14298: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector );
14299: Procedure glVectorScale2( const v : TVectorGL; factor : Single ) : TVectorGL;
14300: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL );
14301: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL );
14302: Function glVectorEquals( const V1, V2 : TVectorGL ) : Boolean;
14303: Function glVectorEquals1( const V1, V2 : TAffineVector ) : Boolean;
14304: Function glAffineVectorEquals( const V1, V2 : TVectorGL ) : Boolean;
14305: Function glVectorIsNull( const v : TVectorGL ) : Boolean;
14306: Function glVectorIsNotNull( const v : TAffineVector ) : Boolean;
14307: Function glVectorSpacing( const v1, v2 : TTExPoint ) : Single;
14308: Function glVectorSpacing1( const v1, v2 : TAffineVector ) : Single;

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14309: Function glVectorSpacing2( const v1, v2 : TVectorGL ) : Single;
14310: Function glVectorDistance( const v1, v2 : TAffineVector ) : Single;
14311: Function glVectorDistance1( const v1, v2 : TVectorGL ) : Single;
14312: Function glVectorDistance2( const v1, v2 : TAffineVector ) : Single;
14313: Function glVectorDistance21( const v1, v2 : TVectorGL ) : Single;
14314: Function glVectorPerpendicular( const V, N : TAffineVector ) : TAffineVector;
14315: Function glVectorReflect( const V, N : TAffineVector ) : TAffineVector;
14316: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single );
14317: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single );
14318: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single );
14319: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single ) : TAffineVector;
14320: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single ) : TAffineVector;
14321: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector );
14322: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single ) : TAffineVector;
14323: Procedure glAbsVector( var v : TVectorGL );
14324: Procedure glabsVector1( var v : TAffineVector );
14325: Function glVectorAbs( const v : TVectorGL ) : TVectorGL;
14326: Function glVectorAbs1( const v : TAffineVector ) : TAffineVector;
14327: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL );
14328: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL );
14329: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix );
14330: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL );
14331: Function glCreateScaleMatrix( const v : TAffineVector ) : TMatrixGL;
14332: Function glCreateScaleMatrix1( const v : TVectorGL ) : TMatrixGL;
14333: Function glCreateTranslationMatrix( const V : TAffineVector ) : TMatrixGL;
14334: Function glCreateTranslationMatrix1( const V : TVectorGL ) : TMatrixGL;
14335: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL ) : TMatrixGL;
14336: Function glCreateRotationMatrixX( const sine, cosine : Single ) : TMatrixGL;
14337: Function glCreateRotationMatrixX1( const angle : Single ) : TMatrixGL;
14338: Function glCreateRotationMatrixY( const sine, cosine : Single ) : TMatrixGL;
14339: Function glCreateRotationMatrixY1( const angle : Single ) : TMatrixGL;
14340: Function glCreateRotationMatrixZ( const sine, cosine : Single ) : TMatrixGL;
14341: Function glCreateRotationMatrixZ1( const angle : Single ) : TMatrixGL;
14342: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single ) : TMatrixGL;
14343: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single ) : TMatrixGL;
14344: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single ):TAffineMatrix;
14345: Function glMatrixMultiply( const M1, M2 : TAffineMatrix ) : TAffineMatrix;
14346: Function glMatrixMultiply1( const M1, M2 : TMatrixGL ) : TMatrixGL;
14347: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL );
14348: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL ) : TVectorGL;
14349: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix ) : TVectorGL;
14350: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL ) : TAffineVector;
14351: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix ) : TAffineVector;
14352: Function glMatrixDeterminant( const M : TAffineMatrix ) : Single;
14353: Function glMatrixDeterminant1( const M : TMatrixGL ) : Single;
14354: Procedure glAdjointMatrix( var M : TMatrixGL );
14355: Procedure glAdjointMatrix1( var M : TAffineMatrix );
14356: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single );
14357: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single );
14358: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector );
14359: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL );
14360: Procedure glNormalizeMatrix( var M : TMatrixGL );
14361: Procedure glTransposeMatrix( var M : TAffineMatrix );
14362: Procedure glTransposeMatrix1( var M : TMatrixGL );
14363: Procedure glInvertMatrix( var M : TMatrixGL );
14364: Procedure glInvertMatrix1( var M : TAffineMatrix );
14365: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL ) : TMatrixGL;
14366: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations ) : Boolean;
14367: Function glPlaneMake( const p1, p2, p3 : TAffineVector ) : THmgPlane;
14368: Function glPlaneMake1( const p1, p2, p3 : TVectorGL ) : THmgPlane;
14369: Function glPlaneMake2( const point, normal : TAffineVector ) : THmgPlane;
14370: Function glPlaneMake3( const point, normal : TVectorGL ) : THmgPlane;
14371: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane );
14372: Procedure glNormalizePlane( var plane : THmgPlane );
14373: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector ) : Single;
14374: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL ) : Single;
14375: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector ) : TAffineVector;
14376: Procedure glCalcPlaneNormal( const p1, p2, p3 : TAffineVector; var vr : TAffineVector );
14377: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector );
14378: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL ) : Boolean;
14379: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector ) : Boolean;
14380: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL ) : Single;
14381: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector ) : Single;
14382: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector;
14383: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector ) : single;
14384: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector ) : TAffineVector;
14385: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector ) : Single;
14386: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var Segment0Closest, Segment1Closest : TAffineVector );
14387: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single;
14388: TEulerOrder', '( eulXYZ, eulXZY, eulyZX, eulyZX, eulZXY, eulZYX )';
14389: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion;
14390: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion;
14391: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single;
14392: Procedure glNormalizeQuaternion( var Q : TQuaternion );
14393: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion;
14394: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector );
14395: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion;
14396: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL;

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14397: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix
14398: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion
14399: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion
14400: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion
14401: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion
14402: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14403: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14404: Function glLnXp1( X : Extended ) : Extended
14405: Function glLog10( X : Extended ) : Extended
14406: Function glLog2( X : Extended ) : Extended;
14407: Function glLog21( X : Single ) : Single;
14408: Function glLogN( Base, X : Extended ) : Extended
14409: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14410: Function glPower( const Base, Exponent : Single ) : Single;
14411: Function glPower1( Base : Single; Exponent : Integer ) : Single;
14412: Function glDegToRad( const Degrees : Extended ) : Extended;
14413: Function glDegToRad1( const Degrees : Single ) : Single;
14414: Function glRadToDeg( const Radians : Extended ) : Extended;
14415: Function glRadToDeg1( const Radians : Single ) : Single;
14416: Function glNormalizeAngle( angle : Single ) : Single
14417: Function glNormalizeDegAngle( angle : Single ) : Single
14418: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14419: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14420: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14421: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14422: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14423: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14424: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14425: Function glArcCos( const X : Extended ) : Extended;
14426: Function glArcCos1( const x : Single ) : Single;
14427: Function glArcSin( const X : Extended ) : Extended;
14428: Function glArcSin1( const X : Single ) : Single;
14429: Function glArcTan2l( const Y, X : Extended ) : Extended;
14430: Function glArcTan21( const Y, X : Single ) : Single;
14431: Function glFastArcTan2( y, x : Single ) : Single
14432: Function glTan( const X : Extended ) : Extended;
14433: Function glTan1( const X : Single ) : Single;
14434: Function glCoTan( const X : Extended ) : Extended;
14435: Function glCoTan1( const X : Single ) : Single;
14436: Function glSinh( const x : Single ) : Single;
14437: Function glSinh1( const x : Double ) : Double;
14438: Function glCosh( const x : Single ) : Single;
14439: Function glCosh1( const x : Double ) : Double;
14440: Function glRSqrt( v : Single ) : Single
14441: Function glRLength( x, y : Single ) : Single
14442: Function glISqrt( i : Integer ) : Integer
14443: Function glILength( x, y : Integer ) : Integer;
14444: Function glILength1( x, y, z : Integer ) : Integer;
14445: Procedure glRegisterBasedExp
14446: Procedure glRandomPointOnSphere( var p : TAffineVector )
14447: Function glRoundInt( v : Single ) : Single;
14448: Function glRoundInt1( v : Extended ) : Extended;
14449: Function glTrunc( v : Single ) : Integer;
14450: Function glTrunc64( v : Extended ) : Int64;
14451: Function glInt( v : Single ) : Single;
14452: Function glInt1( v : Extended ) : Extended;
14453: Function glFrac( v : Single ) : Single;
14454: Function glFract( v : Extended ) : Extended;
14455: Function glRound( v : Single ) : Integer;
14456: Function glRound64( v : Single ) : Int64;
14457: Function glRound641( v : Extended ) : Int64;
14458: Function glTrunc( X : Extended ) : Int64
14459: Function glRound( X : Extended ) : Int64
14460: Function glFrac( X : Extended ) : Extended
14461: Function glCeil( v : Single ) : Integer;
14462: Function glCeil64( v : Extended ) : Int64;
14463: Function glFloor( v : Single ) : Integer;
14464: Function glFloor64( v : Extended ) : Int64;
14465: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14466: Function glSign( x : Single ) : Integer
14467: Function glIsInRange( const x, a, b : Single ) : Boolean;
14468: Function glIsInRange1( const x, a, b : Double ) : Boolean;
14469: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14470: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14471: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14472: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14473: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14474: Function glMinFloat3( const v1, v2 : Single ) : Single;
14475: Function glMinFloat4( const v : array of Single ) : Single;
14476: Function glMinFloat5( const v1, v2 : Double ) : Double;
14477: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14478: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14479: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14480: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14481: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14482: //Function MaxFloat( values : PDoubleArray; nbItems : Integer ) : Double;
14483: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14484: Function glMaxFloat2( const v : array of Single ) : Single;
14485: Function glMaxFloat3( const v1, v2 : Single ) : Single;

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14486: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14487: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14488: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14489: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14490: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14491: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14492: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14493: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14494: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14495: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14496: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14497: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14498: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14499: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14500: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14501: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14502: Procedure glOffsetFloatArray( var values : array of Single; delta : Single );
14503: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14504: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14505: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14506: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14507: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14508: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14509: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14510: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14511: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14512: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14513: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14514: Procedure glSortArrayAscending( var a : array of Extended );
14515: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14516: Function glClampValue1( const aValue, aMin : Single ) : Single;
14517: Function glGeometryOptimizationMode : String;
14518: Procedure glBeginFPUOnlySection;
14519: Procedure glEndFPUOnlySection;
14520: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14521: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14522: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14523: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14524: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14525: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14526: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14527: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14528: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14529: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14530: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14531: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14532: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14533: Function glRoll( const Matrix: TMatrixGL; Angle : Single ) : TMatrixGL;
14534: Function glRoll1(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14535: Function glRayCastMinDistToPoint( const rayStart, rayVector: TVectorGL;const point:TVectorGL):Single;
14536: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14537: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL; const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14538: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14539: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14540: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14541: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14542: Function glIsVolumeClipped2( const min,max:TAffineVector;const rcci : TRenderContextClippingInfo ) : Bool;
14543: Function glIsVolumeClipped3( const objPos:TAffineVector;const objRadius:Single;const Frustum:TFrustum ):Bool;
14544: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;
14545: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL;
14546: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL;
14547: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix;
14548: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL;
14549: 'cPI','Single').setExtended( 3.141592654 );
14550: 'cPIdiv180','Single').setExtended( 0.017453292 );
14551: 'c180divPI','Single').setExtended( 57.29577951 );
14552: 'c2PI','Single').setExtended( 6.283185307 );
14553: 'cPIdiv2','Single').setExtended( 1.570796326 );
14554: 'cPIdiv4','Single').setExtended( 0.785398163 );
14555: 'c3PIdiv4','Single').setExtended( 2.35619449 );
14556: 'cInv2PI','Single').setExtended( 1 / 6.283185307 );
14557: 'cInv360','Single').setExtended( 1 / 360 );
14558: 'c180','Single').setExtended( 180 );
14559: 'c360','Single').setExtended( 360 );
14560: 'cOneHalf','Single').setExtended( 0.5 );
14561: 'cLn10','Single').setExtended( 2.302585093 );
14562: {'MinSingle','Extended').setExtended( 1.5e-45 );
14563: 'MaxSingle','Extended').setExtended( 3.4e+38 );
14564: 'MinDouble','Extended').setExtended( 5.0e-324 );
14565: 'MaxDouble','Extended').setExtended( 1.7e+308 );
14566: 'MinExtended','Extended').setExtended( 3.4e-4932 );
14567: 'MaxExtended','Extended').setExtended( 1.1e+4932 );
14568: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18 );
14569: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18 );}

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

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14659: SIRегистер_TConnectionPoint(CL);
14660: SIRегистер_TConnectionPoints(CL);
14661: TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14662: (FindClass('TOBJECT'), 'TActiveXControlFactory
14663: SIRегистер_TActiveXControl(CL);
14664: //TActiveXControlClass', 'class of TActiveXControl
14665: SIRегистер_TActiveXControlFactory(CL);
14666: SIRегистер_TActiveFormControl(CL);
14667: SIRегистер_TActiveForm(CL);
14668: //TActiveFormClass', 'class of TActiveForm
14669: SIRегистер_TActiveFormFactory(CL);
14670: (FindClass('TOBJECT'), 'TPropertyPageImpl
14671: SIRегистер_TPropertyPage(CL);
14672: //TPROPERTYPAGECLASS', 'class of TPropertyPage
14673: SIRегистер_TPropertyPageImpl(CL);
14674: SIRегистер_TActiveXPropertyPage(CL);
14675: SIRегистер_TActiveXPropertyPageFactory(CL);
14676: SIRегистер_TCustomAdapter(CL);
14677: SIRегистер_TAdapterNotifier(CL);
14678: SIRегистер_IFontAccess(CL);
14679: SIRегистер_TFontAdapter(CL);
14680: SIRегистер_IPictureAccess(CL);
14681: SIRегистер_TPictureAdapter(CL);
14682: SIRегистер_TOLEGraphic(CL);
14683: SIRегистер_TStringsAdapter(CL);
14684: SIRегистер_TReflectorWindow(CL);
14685: Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14686: Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14687: Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14688: Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14689: Procedure SetOlePicture( Picture : TPicture; OlePicture : IPictureDisp)
14690: Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14691: Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14692: Function ParkingWindow : HWND
14693: end;
14694:
14695: procedure SIRегистер_synaip(CL: TPSPPascalCompiler);
14696: begin
14697: // TIp6Bytes = array [0..15] of Byte;
14698: {:binary form of IPv6 adress (for string conversion routines)}
14699: // TIp6Words = array [0..7] of Word;
14700: AddTypeS('TIp6Bytes', 'array [0..15] of Byte;');
14701: AddTypes('Tip6Words', 'array [0..7] of Word;');
14702: AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14703: Function synaIsIP( const Value : string) : Boolean';
14704: Function synaIsIP6( const Value : string) : Boolean';
14705: Function synaPToID( Host : string) : Ansistring';
14706: Function synaStrToIp6( value : string) : TIp6Bytes';
14707: Function synaIp6ToStr( value : TIp6Bytes) : string';
14708: Function synaStrToIp( value : string) : integer';
14709: Function synaIpToStr( value : integer) : string';
14710: Function synaReverseIP( Value : AnsiString) : AnsiString';
14711: Function synaReverseIP6( Value : AnsiString) : AnsiString';
14712: Function synaExpandIP6( Value : AnsiString) : AnsiString';
14713: Function xStrToIP( const Value : String) : TIPAdr';
14714: Function xIPToStr( const Adresse : TIPAdr) : String';
14715: Function IPToCardinal( const Adresse : TIPAdr) : Cardinal';
14716: Function CardinalToIP( const Value : Cardinal) : TIPAdr';
14717: end;
14718:
14719: procedure SIRегистер_synacode(CL: TPSPPascalCompiler);
14720: begin
14721: AddTypeS('TSpecials', 'set of Char');
14722: Const('SpecialChar', 'TSpecials').SetSet( '=( )[]<>;,@/?\"_');
14723: Const('URLFullSpecialChar', 'TSpecials').SetSet( ';/?:@=&#'+');
14724: Const('TableBase64' ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz0123456789+/=+');
14725: Const('TableBase64mod' ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz0123456789+,=+');
14726: Const('TableUU' '!#$%&()' *+-./0123456789;:<=>@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_');
14727: Const('TableXX' (+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz');
14728: Function DecodeTriplet( const Value : AnsiString; Delimiter : Char) : AnsiString';
14729: Function DecodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14730: Function DecodeURL( const Value : AnsiString) : AnsiString';
14731: Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials) : AnsiString';
14732: Function EncodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14733: Function EncodeSafeQuotedPrintable( const Value : AnsiString) : AnsiString';
14734: Function EncodeURLElement( const Value : AnsiString) : AnsiString';
14735: Function EncodeURL( const Value : AnsiString) : AnsiString';
14736: Function Decode4to3( const Value, Table : AnsiString) : AnsiString';
14737: Function Decode4to3Ex( const Value, Table : AnsiString) : AnsiString';
14738: Function Encode3to4( const Value, Table : AnsiString) : AnsiString';
14739: Function synDecodeBase64( const Value : AnsiString) : AnsiString';
14740: Function synEncodeBase64( const Value : AnsiString) : AnsiString';
14741: Function DecodeBase64mod( const Value : AnsiString) : AnsiString';
14742: Function EncodeBase64mod( const Value : AnsiString) : AnsiString';
14743: Function DecodeUU( const Value : AnsiString) : AnsiString';
14744: Function EncodeUU( const Value : AnsiString) : AnsiString';
14745: Function DecodeXX( const Value : AnsiString) : AnsiString';
14746: Function DecodeYEnc( const Value : AnsiString) : AnsiString';
14747: Function UpdateCrc32( Value : Byte; Crc32 : Integer) : Integer';

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14748: Function synCrc32( const Value : AnsiString ) : Integer';
14749: Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word';
14750: Function Crc16( const Value : AnsiString ) : Word';
14751: Function synMD5( const Value : AnsiString ) : AnsiString';
14752: Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString';
14753: Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14754: Function synSHA1( const Value : AnsiString ) : AnsiString';
14755: Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString';
14756: Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14757: Function synMD4( const Value : AnsiString ) : AnsiString';
14758: end;
14759:
14760: procedure SIRegister_synachar(CL: TPSPascalCompiler);
14761: begin
14762:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14763:             +'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14764:             +'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14765:             +'4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14766:             +'_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14767:             +'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14768:             +', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14769:             +', NEXTSTEP, ARMSCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14770:             +'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14771:             +'1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14772:             +'2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14773:             +'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14774:             +'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14775:             +', CP864, CP865, CP869, CP1125 ') );
14776:   AddTypes('TMimeSetChar', 'set of TMimeChar');
14777:   Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14778:   Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
14779:     TransformTable : array of Word) : AnsiString';
14780:   Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
14781:     TransformTable : array of Word; Translit : Boolean) : AnsiString');
14782:   Function GetCurCP : TMimeChar');
14783:   Function GetCurOEMCP : TMimeChar');
14784:   Function NeedCharsetConversion( const Value : AnsiString ) : Boolean';
14785:   Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14786:   Function GetBOM( Value : TMimeChar ) : AnsiString';
14787:   Function StringToWide( const Value : AnsiString ) : WideString';
14788:   Function WideToString( const Value : WideString ) : AnsiString');
14789: end;
14790:
14791: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14792: begin
14793:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14794:   Procedure WakeOnLan( MAC, IP : string );
14795:   Function GetDNS : string';
14796:   Function GetIEProxy( protocol : string ) : TProxySetting';
14797:   Function GetLocalIPs : string');
14798: end;
14799:
14800:
14801: procedure SIRegister_synaser(CL: TPSPascalCompiler);
14802: begin
14803:   AddConstantN('synCR', 'Char #$0d);
14804:   Const('synLF', 'Char #$0a);
14805:   Const('cSerialChunk', 'LongInt'( 8192);
14806:   Const('LockfileDirectory', 'String '/var/lock');
14807:   Const('PortIsClosed', 'LongInt'( - 1);
14808:   Const('ErrAlreadyOwned', 'LongInt'( 9991);
14809:   Const('ErrAlreadyInUse', 'LongInt'( 9992);
14810:   Const('ErrWrongParameter', 'LongInt'( 9993);
14811:   Const('ErrPortNotOpen', 'LongInt'( 9994);
14812:   Const('ErrNoDeviceAnswer', 'LongInt'( 9995);
14813:   Const('ErrMaxBuffer', 'LongInt'( 9996);
14814:   Const('ErrTimeout', 'LongInt'( 9997);
14815:   Const('ErrNotRead', 'LongInt'( 9998);
14816:   Const('ErrFrame', 'LongInt'( 9999);
14817:   Const('ErrOverrun', 'LongInt'( 10000);
14818:   Const('ErrRxOver', 'LongInt'( 10001);
14819:   Const('ErrRxParity', 'LongInt'( 10002);
14820:   Const('ErrTxFull', 'LongInt'( 10003);
14821:   Const('dcb_Binary', 'LongWord')( $00000001);
14822:   Const('dcb_ParityCheck', 'LongWord')( $00000002);
14823:   Const('dcb_OutxCtsFlow', 'LongWord')( $00000004);
14824:   Const('dcb_OutxDsrFlow', 'LongWord')( $00000008);
14825:   Const('dcb_DtrControlMask', 'LongWord')( $00000030);
14826:   Const('dcb_DtrControlDisable', 'LongWord')( $00000000);
14827:   Const('dcb_DtrControlEnable', 'LongWord')( $00000010);
14828:   Const('dcb_DtrControlHandshake', 'LongWord')( $00000020);
14829:   Const('dcb_DsrSensitivity', 'LongWord')( $00000040);
14830:   Const('dcb_TXContinueOnXoff', 'LongWord')( $00000080);
14831:   Const('dcb_OutX', 'LongWord')( $00000100);
14832:   Const('dcb_InX', 'LongWord')( $00000200);
14833:   Const('dcb_ErrorChar', 'LongWord')( $00000400);
14834:   Const('dcb_NullStrip', 'LongWord')( $00000800);

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14835: Const('dcb_RtsControlMask','LongWord')($00003000);
14836: Const('dcb_RtsControlDisable','LongWord')($00000000);
14837: Const('dcb_RtsControlEnable','LongWord')($00001000);
14838: Const('dcb_RtsControlHandshake','LongWord')($00002000);
14839: Const('dcb_RtsControlToggle','LongWord')($00003000);
14840: Const('dcb_AbortOnError','LongWord')($00004000);
14841: Const('dcb_Reserves','LongWord')($FFFF8000);
14842: Const('synSBl','LongInt')(0);
14843: Const('SBlandHalf','LongInt')(1);
14844: Const('synSB2','LongInt')(2);
14845: Const('synINVALID_HANDLE_VALUE','LongInt')(THandle(-1));
14846: Const('CS7fix','LongWord')($00000020);
14847: AddTypeS('synTDCB','record DCBlength : DWORD; BaudRate : WORD; Flags : Long'
14848:   + 'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14849:   + 'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14850:   + 'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14851: //AddTypeS('PDCB','^TDCB // will not work');
14852: //Const('MaxRates','LongInt')(18);
14853: //Const('MaxRates','LongInt')(30);
14854: //Const('MaxRates','LongInt')(19);
14855: Const('O_SYNC','LongWord')($0080);
14856: Const('synOK','LongInt')(0);
14857: Const('synErr','LongInt')(integer(-1));
14858: AddTypeS('THookSerialReason','( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
14859:   HR_WriteCount, HR_Wait )');
14860: Type('THookSerialStatus',Procedure(Sender:TObject; Reason:THookSerialReason; const Value:string));
14861: SIRegister_ESynaSerError(CL);
14862: SIRegister_TBlockSerial(CL);
14863: Function GetSerialPortNames : string;
14864: end;
14865: procedure SIRegister_synaicnv(CL:TPSPascalCompiler);
14866: begin
14867:   Const('DLLIconvName','String 'libiconv.so');
14868:   Const('DLLIconvName','String 'iconv.dll');
14869:   AddTypeS('size_t','Cardinal');
14870:   AddTypeS('iconv_t','Integer');
14871:   //AddTypeS('iconv_t','Pointer');
14872:   AddTypeS('argptr','iconv_t');
14873:   Function SynalconvOpen(const tocode, fromcode : Ansistring) : iconv_t';
14874:   Function SynalconvOpenSlit(const tocode, fromcode : Ansistring) : iconv_t';
14875:   Function SynalconvOpenIgnore(const tocode, fromcode : Ansistring) : iconv_t';
14876:   Function Synalconv(cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14877:   Function SynalconvClose(var cd : iconv_t) : integer';
14878:   Function SynalconvCtl(cd : iconv_t; request : integer; argument : argptr) : integer';
14879:   Function IsIconvloaded : Boolean';
14880:   Function InitIconvInterface : Boolean';
14881:   Function DestroyIconvInterface : Boolean';
14882:   Const('ICONV_TRIVIALP','LongInt')(0);
14883:   Const('ICONV_GET_TRANSLITERATE','LongInt')(1);
14884:   Const('ICONV_SET_TRANSLITERATE','LongInt')(2);
14885:   Const('ICONV_GET_DISCARD_ILSEQ','LongInt')(3);
14886:   Const('ICONV_SET_DISCARD_ILSEQ','LongInt')(4);
14887: end;
14888:
14889: procedure SIRegister_pingsend(CL:TPSPascalCompiler);
14890: begin
14891:   Const('ICMP_ECHO','LongInt')(8);
14892:   Const('ICMP_ECHOREPLY','LongInt')(0);
14893:   Const('ICMP_UNREACH','LongInt')(3);
14894:   Const('ICMP_TIME_EXCEEDED','LongInt')(11);
14895:   Const('ICMP6_ECHO','LongInt')(128);
14896:   Const('ICMP6_ECHOREPLY','LongInt')(129);
14897:   Const('ICMP6_UNREACH','LongInt')(1);
14898:   Const('ICMP6_TIME_EXCEEDED','LongInt')(3);
14899:   AddTypeS('TICMPError','( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOut'
14900:     + 'her, IE_UreachRoute, IE_UreachAdmin, IE_UreachAddr, IE_UreachPort )');
14901:   SIRegister_TPINGSend(CL);
14902:   Function PingHost(const Host : string) : Integer';
14903:   Function TraceRouteHost(const Host : string) : string';
14904: end;
14905:
14906: procedure SIRegister_asn1util(CL:TPSPascalCompiler);
14907: begin
14908:   AddConstantN('synASN1_BOOL','LongWord')($01);
14909:   Const('synASN1_INT','LongWord')($02);
14910:   Const('synASN1_OCTSTR','LongWord')($04);
14911:   Const('synASN1_NULL','LongWord')($05);
14912:   Const('synASN1_OBJID','LongWord')($06);
14913:   Const('synASN1_ENUM','LongWord')($0a);
14914:   Const('synASN1_SEQ','LongWord')($30);
14915:   Const('synASN1_SETOF','LongWord')($31);
14916:   Const('synASN1_IPADDR','LongWord')($40);
14917:   Const('synASN1_COUNTER','LongWord')($41);
14918:   Const('synASN1_GAUGE','LongWord')($42);
14919:   Const('synASN1_TIMETICKS','LongWord')($43);
14920:   Const('synASN1_OPAQUE','LongWord')($44);
14921:   Function synASNEncOIDItem(Value : Integer) : AnsiString';
14922:   Function synASNDecOIDItem(var Start : Integer; const Buffer : AnsiString) : Integer';

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14923: Function synASNEncLen( Len : Integer ) : AnsiString';
14924: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString ) : Integer';
14925: Function synASNEncInt( Value : Integer ) : AnsiString';
14926: Function synASNEncUInt( Value : Integer ) : AnsiString';
14927: Function synASNObject( const Data : AnsiString; ASNType : Integer ) : AnsiString';
14928: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14929: Function synMibToId( Mib : String ) : AnsiString';
14930: Function synIdToMib( const Id : AnsiString ) : String';
14931: Function synIntMibToStr( const Value : AnsiString ) : AnsiString';
14932: Function ASNdump( const Value : AnsiString ) : AnsiString';
14933: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings ) : Boolean';
14934: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14935: end;
14936:
14937: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14938: begin
14939:   Const ('cLDAPProtocol','String '389');
14940:   Const ('LDAP_ASN1_BIND_REQUEST','LongWord')( $60);
14941:   Const ('LDAP_ASN1_BIND_RESPONSE','LongWord')( $61);
14942:   Const ('LDAP_ASN1_UNBIND_REQUEST','LongWord')( $42);
14943:   Const ('LDAP_ASN1_SEARCH_REQUEST','LongWord')( $63);
14944:   Const ('LDAP_ASN1_SEARCH_ENTRY','LongWord')( $64);
14945:   Const ('LDAP_ASN1_SEARCH_DONE','LongWord')( $65);
14946:   Const ('LDAP_ASN1_SEARCH_REFERENCE','LongWord')( $73);
14947:   Const ('LDAP_ASN1 MODIFY REQUEST','LongWord')( $66);
14948:   Const ('LDAP_ASN1 MODIFY RESPONSE','LongWord')( $67);
14949:   Const ('LDAP_ASN1_ADD REQUEST','LongWord')( $68);
14950:   Const ('LDAP_ASN1_ADD RESPONSE','LongWord')( $69);
14951:   Const ('LDAP_ASN1_DEL REQUEST','LongWord')( $4A);
14952:   Const ('LDAP_ASN1_DEL RESPONSE','LongWord')( $6B);
14953:   Const ('LDAP_ASN1 MODIFYDN REQUEST','LongWord')( $6C);
14954:   Const ('LDAP_ASN1 MODIFYDN RESPONSE','LongWord')( $6D);
14955:   Const ('LDAP_ASN1_COMPARE REQUEST','LongWord')( $6E);
14956:   Const ('LDAP_ASN1_COMPARE RESPONSE','LongWord')( $6F);
14957:   Const ('LDAP_ASN1_ABANDON REQUEST','LongWord')( $70);
14958:   Const ('LDAP_ASN1 EXT REQUEST','LongWord')( $77);
14959:   Const ('LDAP_ASN1 EXT RESPONSE','LongWord')( $78);
14960:   SIRegister_TLDAPAttribute(CL);
14961:   SIRegister_TLDAPAttributeList(CL);
14962:   SIRegister_TLDAPResult(CL);
14963:   SIRegister_TLDAPResultList(CL);
14964:   AddTypeS('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14965:   AddTypes('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14966:   AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14967:   SIRegister_TLDAPSnd(CL);
14968:   Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14969: end;
14970:
14971:
14972: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14973: begin
14974:   Const ('cSysLogProtocol','String '514');
14975:   Const ('FCL_Kernel','LongInt'( 0 );
14976:   Const ('FCL_UserLevel','LongInt'( 1 );
14977:   Const ('FCL_MailSystem','LongInt'( 2 );
14978:   Const ('FCL_System','LongInt'( 3 );
14979:   Const ('FCL_Security','LongInt'( 4 );
14980:   Const ('FCL_Syslogd','LongInt'( 5 );
14981:   Const ('FCL_Printer','LongInt'( 6 );
14982:   Const ('FCL_News','LongInt'( 7 );
14983:   Const ('FCL_UUCP','LongInt'( 8 );
14984:   Const ('FCL_Clock','LongInt'( 9 );
14985:   Const ('FCL_Authorization','LongInt'( 10 );
14986:   Const ('FCL_FTP','LongInt'( 11 );
14987:   Const ('FCL_NTP','LongInt'( 12 );
14988:   Const ('FCL_LogAudit','LongInt'( 13 );
14989:   Const ('FCL_LogAlert','LongInt'( 14 );
14990:   Const ('FCL_Time','LongInt'( 15 );
14991:   Const ('FCL_Local0','LongInt'( 16 );
14992:   Const ('FCL_Local1','LongInt'( 17 );
14993:   Const ('FCL_Local2','LongInt'( 18 );
14994:   Const ('FCL_Local3','LongInt'( 19 );
14995:   Const ('FCL_Local4','LongInt'( 20 );
14996:   Const ('FCL_Local5','LongInt'( 21 );
14997:   Const ('FCL_Local6','LongInt'( 22 );
14998:   Const ('FCL_Local7','LongInt'( 23 );
14999:   Type(TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning,Notice,Info,Debug);
15000:   SIRegister_TSyslogMessage(CL);
15001:   SIRegister_TSyslogSend(CL);
15002:   Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const Content:string):Boolean;
15003: end;
15004:
15005:
15006: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
15007: begin
15008:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
15009:   SIRegister_TMessHeader(CL);
15010:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');

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15011:  SIRegister_TMimeMess(CL);
15012: end;
15013:
15014: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
15015: begin
15016:   (FindClass('TOBJECT'), 'TMimePart');
15017:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
15018:   AddTypeS('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
15019:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
15020:   SIRegister_TMimePart(CL);
15021: Const('MaxMimeType', 'LongInt'( 25));
15022: Function GenerateBoundary : string';
15023: end;
15024:
15025: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
15026: begin
15027:   Function InlineDecode( const Value : string; CP : TMimeChar) : string';
15028:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string';
15029:   Function NeedInline( const Value : AnsiString) : boolean';
15030:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
15031:   Function InlineCode( const Value : string) : string';
15032:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
15033:   Function InlineEmail( const Value : string) : string');
15034: end;
15035:
15036: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
15037: begin
15038:   Const('cFtpProtocol', 'String '21');
15039:   Const('cFtpDataProtocol', 'String '20');
15040:   Const('FTP_OK', 'LongInt'( 255);
15041:   Const('FTP_ERR', 'LongInt'( 254);
15042:   AddTypeS('FTPSStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
15043:   SIRegister_TFTPLListRec(CL);
15044:   SIRegister_TFTPLList(CL);
15045:   SIRegister_TFTPSend(CL);
15046:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
15047:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
15048:   Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string) : Boolean';
15049: end;
15050:
15051: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
15052: begin
15053:   Const('cHttpProtocol', 'String '80');
15054:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
15055:   SIRegister_THTTPSend(CL);
15056:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
15057:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
15058:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
15059:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
15060:   Function HttpPostFile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
15061: end;
15062:
15063: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
15064: begin
15065:   Const('cSmtpProtocol', 'String '25');
15066:   SIRegister_TSMTSPSend(CL);
15067:   Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
15068:   Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
15069:   Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Usrname, Password : string):Boolean';
15070: end;
15071:
15072: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
15073: begin
15074:   Const('cSnmpProtocol', 'String '161');
15075:   Const('cSnmpTrapProtocol', 'String '162');
15076:   Const('SNMP_V1', 'LongInt'( 0);
15077:   Const('SNMP_V2C', 'LongInt'( 1);
15078:   Const('SNMP_V3', 'LongInt'( 3);
15079:   Const('PDUGetRequest', 'LongWord')($A0);
15080:   Const('PDUGetNextRequest', 'LongWord')($A1);
15081:   Const('PDUGetResponse', 'LongWord')($A2);
15082:   Const('PDUSetRequest', 'LongWord')($A3);
15083:   Const('PDUTrap', 'LongWord')($A4);
15084:   Const('PDUGetBulkRequest', 'LongWord')($A5);
15085:   Const('PDUINformRequest', 'LongWord')($A6);
15086:   Const('PDUTrapV2', 'LongWord')($A7);
15087:   Const('PDUReport', 'LongWord')($A8);
15088:   Const('ENoError', 'LongInt' 0;
15089:   Const('ETooBig', 'LongInt')($A9);
15090:   Const('ENoSuchName', 'LongInt')($A0);
15091:   Const('EBadValue', 'LongInt')($A1);
15092:   Const('EReadOnly', 'LongInt')($A2);
15093:   Const('EGenErr', 'LongInt')($A3);
15094:   Const('ENoAccess', 'LongInt')($A4);
15095:   Const('EWrongType', 'LongInt')($A5);

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15096: Const('EWrongLength','LongInt'( 8);
15097: Const('EWrongEncoding','LongInt'( 9);
15098: Const('EWrongValue','LongInt'( 10);
15099: Const('ENoCreation','LongInt'( 11);
15100: Const('EInconsistentValue','LongInt'( 12);
15101: Const('EResourceUnavailable','LongInt'( 13);
15102: Const('ECommitFailed','LongInt'( 14);
15103: Const('EUndoFailed','LongInt'( 15);
15104: Const('EAuthorizationError','LongInt'( 16);
15105: Const('ENotWritable','LongInt'( 17);
15106: Const('EInconsistentName','LongInt'( 18);
15107: AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15108: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15109: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15110: SIRegister_TSNNPMib(CL);
15111: AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
15112:   +EngineTime : integer; EngineStamp : Cardinal; end');
15113: SIRegister_TSNNPRec(CL);
15114: SIRegister_TSNNPSend(CL);
15115: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString) : Boolean';
15116: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer) : Boolean';
15117: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15118: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings): Boolean;
15119: Function SNMPGetTableElement(const BaseOID,RowID,ColID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15120: Function SendTrap(const Dest,Source,Enterprise,Community : AnsiString; Generic, Specific, Seconds : Integer;
15121:   const MIBName, MIBValue : AnsiString; MIBtype : Integer);
15122: Function RecvTrap(var Dest,Source,Enterprise,Community : AnsiString; var Generic, Specific, Seconds : Integer;
15123:   const MIBName, MIBValue : TStringList) : Integer);
15124: end;
15125: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15126: begin
15127:   Function GetDomainName2: AnsiString';
15128:   Function GetDomainController( Domain : AnsiString) : AnsiString';
15129:   Function GetDomainUsers( Controller : AnsiString) : AnsiString';
15130:   Function GetDomainGroups( Controller : AnsiString) : AnsiString';
15131:   Function GetDateTime( Controller : AnsiString) : TDateTime';
15132:   Function GetFullName2( Controller, UserID : AnsiString) : AnsiString';
15133: end;
15134: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15135: begin
15136:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15137:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM)';
15138:   Function wwStrToDate( const S : string) : boolean';
15139:   Function wwStrToTime( const S : string) : boolean';
15140:   Function wwStrToDateTime( const S : string) : boolean';
15141:   Function wwStrToTimeVal( const S : string) : TDateTime';
15142:   Function wwStrToDateVal( const S : string) : TDateTime';
15143:   Function wwStrToDateTimeVal( const S : string) : TDateTime';
15144:   Function wwStrToInt( const S : string) : boolean';
15145:   Function wwStrToFloat( const S : string) : boolean';
15146:   Function wwGetDateOrder( const DateFormat : string) : TwwDateOrder';
15147:   Function wwNextDay( Year, Month, Day : Word) : integer';
15148:   Function wwPriorDay( Year, Month, Day : Word) : integer';
15149:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime) : Boolean';
15150:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime) : Boolean';
15151:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15152:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string) : TwwDateTimeSelection';
15153:   Function wwScanDate( const S : string; var Date : TDateTime) : Boolean';
15154:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer) : Boolean';
15155:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool);
15156:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15157: end;
15158:
15159: unit uPSI_Themes;
15160: Function ThemeServices : TThemeServices';
15161: Function ThemeControl( AControl : TControl) : Boolean';
15162: Function UnthemedDesigner( AControl : TControl) : Boolean';
15163: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15164: begin
15165:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String';
15166: end;
15167: Unit uPSC_menus;
15168: Function StripHotkey( const Text : string) : string';
15169: Function GetHotkey( const Text : string) : string';
15170: Function AnsiSameCaption( const Text1, Text2 : string) : Boolean';
15171: Function IsAltGRPressed : boolean';
15172:
15173: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15174: begin
15175:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15176:   SIRegister_IdIMAP4Server(CL);
15177: end;
15178:
15179: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15180: begin
15181:   'HASH_SIZE','LongInt'( 256);
15182:   CL.FindClass('TOBJECT'), 'EVariantSymbolTable');

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15183: CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15184: //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15185: CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15186:   +' : Integer; Value : Variant; end');
15187: //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15188: SIRegister_TVariantSymbolTable(CL);
15189: end;
15190:
15191: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15192: begin
15193:   SIRegister_TThreadLocalVariables(CL);
15194:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : Pchar');
15195: //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15196:   Function ThreadLocals : TThreadLocalVariables');
15197:   Procedure WriteDebug( sz : String );
15198:   CL.AddConstantN('UDF_SUCCESS','LongInt'( 0 );
15199:   'UDF_FAILURE','LongInt'( 1 );
15200:   'cSignificantlyLarger','LongInt'( 1024 * 4 );
15201:   CL.AddTypeS('mTByteArray', 'array of byte');
15202:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15203:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15204:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15205:   function IsNetworkConnected: Boolean;
15206:   function IsInternetConnected: Boolean;
15207:   function IsCOMConnected: Boolean;
15208:   function IsNetworkOn: Boolean;
15209:   function IsInternetOn: Boolean;
15210:   function IsCOMON: Boolean;
15211:   Function SetTimer(hWnd : HWND; nIDEEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15212:   TmrProc', 'procedure TmrProc(hWnd: HWND; uMsg: Integer; idEvent: Integer; dwTime: Integer);');
15213:   Function SetTimer2( hWnd : HWND; nIDEEvent, uElapse : UINT; lpTimerFunc : TmrProc ) : UINT';
15214:   Function KillTimer( hWnd : HWND; uIDEEvent : UINT ) : BOOL';
15215:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15216:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15217:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15218:   Function GetMenu( hWnd : HWND ) : HMENU';
15219:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15220: end;
15221:
15222: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15223: begin
15224:   SIRegister_IDataBlock(CL);
15225:   SIRegister_ISendDataBlock(CL);
15226:   SIRegister_ITransport(CL);
15227:   SIRegister_TDataBlock(CL);
15228:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15229:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15230:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15231:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15232:   SIRegister_TCustomDataBlockInterpreter(CL);
15233:   SIRegister_TSendDataBlock(CL);
15234:   'CallSig','LongWord')( $D800);
15235:   'ResultSig','LongWord')( $D400);
15236:   'asMask','LongWord')( $00FF);
15237:   CL.AddClassN(CL.FindClass('TOBJECT'),'EInterpreterError');
15238:   CL.AddClassN(CL.FindClass('TOBJECT'),'ESocketConnectionError');
15239:   Procedure CheckSignature( Sig : Integer );
15240: end;
15241:
15242: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15243: begin
15244:   //CL.AddTypeS('HINTERNET', '__Pointer');
15245:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15246:   CL.AddTypeS('HINTERNET', 'Integer');
15247:   CL.AddTypeS('HINTERNET2', '__Pointer');
15248:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15249:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15250:   CL.AddTypeS('INTERNET_PORT', 'Word');
15251:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15252:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15253:   Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD):BOOL;
15254:   'INTERNET_RFC1123_FORMAT','LongInt'( 0 );
15255:   'INTERNET_RFC1123_BUFSIZE','LongInt'( 30 );
15256:   Function InternetCrackUrl(lpszUrl:PChar;dwUrlLength,dwFlags:DWORD;var
15257:   lpUrlComponents:TURLComponents):BOOL;
15258:   Function InternetCreateUrl(var lpUrlComponts:TURLCompons;dwFlags:DWORD;lpszUrl:PChar;var
15259:   dwUrlLength:DWORD):BOOL;
15260:   Function InternetCloseHandle(hInet : HINTERNET) : BOOL';
15261:   Function
15262:     InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
15263:     lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15264:     Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
15265:     ;dwContext:DWORD):HINTERNET;
15266:     Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
15267:     lpszProxBypass:PChar;dwFlags:DWORD):HINTERNET;
15268:     Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
15269:     dwContext:DWORD):BOOL;
15270:     Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15271:   Function
15272:     InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;

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

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15338: Function strPreceding( s : string; delimiter : char ) : string');
15339: Function wwstrReplace( s, Find, Replace : string ) : string');
15340: end;
15341:
15342: procedure SIRegister_DataBkr(CL: TPSPPascalCompiler);
15343: begin
15344:   SIRegister_TRemoteDataModule(CL);
15345:   SIRegister_TCRemoteDataModule(CL);
15346: Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)' );
15347: Procedure UnregisterPooled( const ClassID : string)' );
15348: Procedure EnableSocketTransport( const ClassID : string)' );
15349: Procedure DisableSocketTransport( const ClassID : string)' );
15350: Procedure EnableWebTransport( const ClassID : string)' );
15351: Procedure DisableWebTransport( const ClassID : string)' );
15352: end;
15353:
15354: procedure SIRegister_Mathbox(CL: TPSPPascalCompiler);
15355: begin
15356:   Function mxArcCos( x : Real ) : Real';
15357:   Function mxArcSin( x : Real ) : Real';
15358:   Function Comp2Str( N : Comp ) : String';
15359:   Function Int2StrPad0( N : LongInt; Len : Integer ) : String';
15360:   Function Int2Str( N : LongInt ) : String';
15361:   Function mxIsEqual( R1, R2 : Double ) : Boolean';
15362:   Function LogXY( x, y : Real ) : Real';
15363:   Function Pennies2Dollars( C : Comp ) : String';
15364:   Function mxPower( X : Integer; Y : Integer ) : Real';
15365:   Function Real2Str( N : Real; Width, Places : integer ) : String';
15366:   Function mxStr2Comp( MyString : string ) : Comp');
15367:   Function mxStr2Pennies( S : String ) : Comp');
15368:   Function Str2Real( MyString : string ) : Real');
15369:   Function XToTheY( x, y : Real ) : Real');
15370: end;
15371:
15372: //*****Cindy Functions!*****
15373: procedure SIRegister_cyIndy(CL: TPSPPascalCompiler);
15374: begin
15375:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml',
15376:     +' _Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach,
15377:     +' cmAlterText_Html_RelatedAttach,cmAlterText_Html_Attach_RelatedAttach,cmReadNotification )');
15378:   MessagePlainText', 'String 'text/plain');
15379:   CL.AddConstantN('MessagePlainText_Attach','String 'multipart/mixed');
15380:   MessageAlterText_Html', 'String 'multipart/alternative');
15381:   MessageHtml_Attach', 'String 'multipart/mixed');
15382:   MessageHtml_RelatedAttach', 'String 'multipart/related; type="text/html"');
15383:   MessageAlterText_Html_Attach', 'String 'multipart/mixed');
15384:   MessageAlterText_Html_RelatedAttach', 'String')('multipart/related;type="multipart/alternative"');
15385:   MessageAlterText_Html_Attach_RelatedAttach', 'String 'multipart/mixed');
15386:   MessageReadNotification', 'String')('multipart/report; report-type="disposition-notification"');
15387:   Function ForceDecodeHeader( aHeader : String ) : String');
15388:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding ) : string');
15389:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding ) : String');
15390:   Function Base64_DecodeToBytes( Value : String ) : TBytes');
15391:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15392:   Function Get_MD5( const aFileName : string ) : string');
15393:   Function Get_MD5FromString( const aString : string ) : string');
15394: end;
15395:
15396: procedure SIRegister_cySysUtils(CL: TPSPPascalCompiler);
15397: begin
15398:   Function IsFolder( SRec : TSearchrec ) : Boolean');
15399:   Function isFolderReadOnly( Directory : String ) : Boolean');
15400:   Function DirectoryIsEmpty( Directory : String ) : Boolean');
15401:   Function DirectoryWithSubDir( Directory : String ) : Boolean');
15402:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings)');
15403:   Function DiskFreeBytes( Drv : Char ) : Int64');
15404:   Function DiskBytes( Drv : Char ) : Int64');
15405:   Function GetFileBytes( Filename : String ) : Int64');
15406:   Function GetFilesBytes( Directory, Filter : String ) : Int64');
15407:   SE_CREATE_TOKEN_NAME', 'String 'SeCreateTokenPrivilege');
15408:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege');
15409:   SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege');
15410:   SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege');
15411:   SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege');
15412:   SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege');
15413:   SE_TCB_NAME', 'String 'SeTcbPrivilege');
15414:   SE_SECURITY_NAME', 'String 'SeSecurityPrivilege');
15415:   SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege');
15416:   SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege');
15417:   SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege');
15418:   SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege');
15419:   SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege');
15420:   SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege');
15421:   SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege');
15422:   SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege');
15423:   SE_BACKUP_NAME', 'String 'SeBackupPrivilege');
15424:   SE_RESTORE_NAME', 'String 'SeRestorePrivilege');
15425:   SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege');
15426:   SE_DEBUG_NAME', 'String 'SeDebugPrivilege');

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15427: SE_AUDIT_NAME', 'String 'SeAuditPrivilege');
15428: SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege');
15429: SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege');
15430: SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege');
15431: SE_UNDOCK_NAME', 'String 'SeUndockPrivilege');
15432: SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege');
15433: SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege');
15434: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege');
15435: end;
15436:
15437:
15438: procedure SIRегистre_cyWinUtils(CL: TPSPascalCompiler);
15439: begin
15440:   Type(TWindowsVersion', '( wvUnknown, wvWin31, wvWin95, wvWin98, wvWin'
15441:     +'Me, wvWinNT3, wvWinNT4, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Or_Upper )');
15442:   Function ShellGetExtensionName( FileName : String ) : String';
15443:   Function ShellGetIconIndex( FileName : String ) : Integer';
15444:   Function ShellGetIconHandle( FileName : String ) : HIcon';
15445:   Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string)');
15446:   Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string)');
15447:   Procedure ShellRenameDir( DirFrom, DirTo : string');
15448:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15449:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15450:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String );
15451:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string );
15452:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
15453:   WaitCloseCompletion : boolean) : Boolean';
15454:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer)');
15455:   Function RemoveDuplicatedPathDelimiter( Str : String ) : String';
15456:   Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime';
15457:   Function GetModificationDate( Filename : String ) : TDateTime';
15458:   Function GetCreationDate( Filename : String ) : TDateTime';
15459:   Function GetLastAccessDate( Filename : String ) : TDateTime';
15460:   Function FileDelete( Filename : String ) : Boolean';
15461:   Function FileIsOpen( Filename : string ) : boolean';
15462:   Procedure FilesDelete( FromDirectory : String; Filter : ShortString)');
15463:   Function DirectoryDelete( Directory : String ) : Boolean';
15464:   Function GetPrinters( PrintersList : TStrings ) : Integer';
15465:   Procedure SetDefaultPrinter( PrinterName : String );
15466:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer)');
15467:   Function WinToDosPath( WinPathName : String ) : String';
15468:   Function DosToWinPath( DosPathName : String ) : String';
15469:   Function cyGetWindowsVersion : TWindowsVersion';
15470:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean';
15471:   Procedure WindowsShutDown( Restart : boolean );
15472:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
15473:   FileIcon:string;NumIcone:integer);
15474:   Procedure GetWindowsFonts( FontsList : TStrings );
15475:   Function GetAvailableFilename( DesiredFileName : String ) : String';
15476: end;
15477:
15478: procedure SIRегистre_cyStrUtils(CL: TPSPascalCompiler);
15479: begin
15480:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15481:   Type(TStrLocateOptions', 'set of TStrLocateOption');
15482:   Type(TStringRead', '( srFromLeft, srFromRight )');
15483:   Type(TStringReads', 'set of TStringRead');
15484:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15485:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15486:   Type(TWordsOptions', 'set of TWordsOption');
15487:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15488:   Type(TCarTypes', 'set of TCarType');
15489:   CarTypeAlphabetic', 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15490:   Function Char_GetType( aChar : Char ) : TCarType';
15491:   Function SubString_Count( Str : String; Separator : Char ) : Integer';
15492:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15493:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15494:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String );
15495:   Procedure SubString_Insert(var Str:String;Separator:Char;SubStringIndex:Word; Value : String );
15496:   Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word; NewValue : String );
15497:   Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15498:   Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15499:   Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer ):Integer;';
15500:   Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15501:   Function String_Quote( Str : String ) : String';
15502:   Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char ) : Char';
15503:   Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15504:   Function String_GetWord( Str : String; StringRead : TStringRead ) : String';
15505:   Function String_GetInteger( Str : String; StringRead : TStringRead ) : string';
15506:   Function String_ToInt( Str : String ) : Integer';
15507:   Function String_Uppercase( Str : String; Options : TWordsOptions ) : String';
15508:   Function String_Lowercase( Str : String; Options : TWordsOptions ) : String';
15509:   Function String_Reverse( Str : String ) : String';
15510:   Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15511:   Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive :
15512:   TCaseSensitive):Integer';
15513:   Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String';

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15513: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15514: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
  Between2MustExist : Boolean; CaseSensitive : TCaseSensitive) : String');
15515: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15516: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive) : String');
15517: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads) : String');
15518: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer) : String');
15519: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String');
15520: Function String_End( Str : String; Cars : Word) : String');
15521: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
  AlwaysFindFromBeginning : Boolean) : String');
15522: Function String_SubstCar( Str : String; Old, New : Char ) : String');
15523: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive) : Integer');
15524: Function String_SameCars(Str1,Str2:String;StopCount_IfDifferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15525: Function String_IsNumbers( Str : String) : Boolean');
15526: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer) : Integer');
15527: Function StringToCsvCell( aStr : String) : String');
15528: end;
15529:
15530: procedure SIRегистre_cyDateUtils(CL: TPSPascalCompiler);
15531: begin
15532:   Function LongDayName( aDate : TDate ) : String';
15533:   Function LongMonthName( aDate : TDate ) : String';
15534:   Function ShortYearOf( aDate : TDate ) : byte';
15535:   Function DateToStrYYYYMMDD( aDate : TDate ) : String');
15536:   Function StrYYYYMMDDToDate( aStr : String ) : TDate';
15537:   Function SecondsToMinutes( Seconds : Integer ) : Double';
15538:   Function MinutesToSeconds( Minutes : Double ) : Integer');
15539:   Function MinutesToHours( Minutes : Integer ) : Double');
15540:   Function HoursToMinutes( Hours : Double ) : Integer');
15541:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime');
15542:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer );
15543:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime');
15544:   Function GetMinutesBetween( DateTimel, DateTime2 : TDateTime ) : Int64 );
15545:   Function GetMinutesBetween(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15546:   Function GetSecondsBetween( DateTime1, DateTime2 : TDateTime ) : Int64 );
15547:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
  RsltBegin:TDateTime; RsltEnd : TDateTime ) : Boolean );
15548:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15549:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean );
15550: end;
15551:
15552: procedure SIRегистre_cyObjUtils(CL: TPSPascalCompiler);
15553: begin
15554:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15555:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15556:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15557:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15558:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer );
15559:   Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer );
15560:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer );
15561:   Procedure StringsReplace(aList:TStrings;OldStr:String;NewStr:String;ValueKind : TStringsValueKind );
15562:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15563:   Function TreeNodeLocate( ParentNode : TTreeNode; Value : String ) : TTreeNode );
15564:   Function TreeNodeLocateOnLevel( TreeView : TTreeView; OnLevel : Integer; Value : String ) : TTreeNode );
15565:   Function
    TreeNodeGetChildFromIndex(TreeView:TTreeView;ParentNode:TTreeNode;ChildIndex:Integer):TTreeNode';
15566:   Function TreeNodeGetParentOnLevel( ChildNode : TTreeNode; ParentLevel : Integer ) : TTreeNode );
15567:   Procedure TreeNodeCopy(FromNode:TTreeNode;ToNode:TTreeNode;const CopyChildren:Boolean;const
  CopySubChildren:Bool;
15568:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormatedString : String );
15569:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15570:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl );
15571:   Procedure cyCenterControl( aControl : TControl );
15572:   Function GetLastParent( aControl : TControl ) : TWinControl );
15573:   Function GetControlBitmap( aControl : TWinControl ) : TBitmap );
15574:   Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap );
15575: end;
15576:
15577: procedure SIRегистre_cyBDE(CL: TPSPascalCompiler);
15578: begin
15579:   Function TablePackTable( Tab : TTable ) : Boolean );
15580:   Function TableRegenIndexes( Tab : TTable ) : Boolean );
15581:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean );
15582:   Function TableUndeleteRecord( Tab : TTable ) : Boolean );
15583:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15584:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean );
15585:   Function TableEmptyTable( Tab : TTable ) : Boolean );
15586:   Function TableFindKey( aTable : TTable; Value : String ) : Boolean );
15587:   Procedure TableFindNearest( aTable : TTable; Value : String );
15588:   Function
    TableCreate(Owner:TComponent;DBaseName:ShortString;TblName:String;IdxName:ShortString;ReadOnly:Bool):TTable;
15589:   Function
    TableOpen(Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool):Bool;
15590:   Function DateToBDESQLODate( aDate : TDate; const DateFormat : String ) : String );
15591: end;
15592:
15593: procedure SIRегистre_cyClasses(CL: TPSPascalCompiler);
15594: begin

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15595: SIRегистер_TcyRunTimeDesign(CL);
15596: SIRегистер_TcyShadowText(CL);
15597: SIRегистер_TcyBgPicture(CL);
15598: SIRегистер_TcyGradient(CL);
15599: SIRегистер_TcyBevel(CL);
15600: //CL.AddTypes('TcyBevelClass', 'class of tcyBevel');
15601: SIRегистер_TcyBevels(CL);
15602: SIRегистер_TcyImagelistOptions(CL);
15603: Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15604: end;
15605:
15606: procedure SIRегистер_cyGraphics(CL: TPPascalCompiler);
15607: begin
15608:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
adgradOrientation : TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
Maxdegrade : Byte); +
15609:   SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap );
15610:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad : byte);
15611:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad:byte);
15612:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad : Byte;
toRect : TRect; OrientationShape : TDgradOrientationShape );
15613:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad : Byte;
AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap );
15614:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer );
15615:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15616:   Procedure cyFrameL( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
BottomColor : TColor; const Width : Integer; const RoundRect : boolean );
15617:   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:bool );
15618:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean );
15619:   Procedure cyDrawButton(Canvas:TCanvas;Caption:String;ARect:TRect;GradientColor1,GradientColor2:TColor;
aState : TButtonState; Focused, Hot : Boolean );
15620:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean );
15621:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean );
15622:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor );
15623:   Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer );
15624:   Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
TAlignment;Layout:TTextLayout;WordWrap:Boolean):LongInt;
15625:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt );
15626:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt );
15627:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont ;
15628:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont ;
15629:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout );
15630:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone : Integer;
const OnlyCalcFoldLine : Boolean ) : TLineCoord ;
15631:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone : Integer;
const OnlyCalcFoldLine : Boolean ) : TLineCoord ;
15632:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ) : boolean ;
15633:   Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean ;
15634:   Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean ;
15635:   Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean ;
15636:   Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );
15637:   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 );
15638:   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 );
15639:   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 );
15640:   Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap );
15641:   Function ValidGraphic( aGraphic : TGraphic ) : Boolean ;
15642:   Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor ;
15643:   Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor ;
15644:   Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor ;
15645:   Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor ;
15646:   Function MediumColor( Color1, Color2 : TColor ) : TColor ;
15647:   Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect ;
15648:   Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect ;
15649:   Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect ;
15650:   Procedure InflateRectPercent( var aRect : TRect; withPercent : Double );
15651:   Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect ;
15652:   Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect ;
15653:   Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean ;
15654:   Function PointInEllispe( const aPt : TPoint; const aRect : TRect ) : boolean ;
15655:   Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer ;
15656: end;
15657:
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15658: procedure SIRegister_cyTypes(CL: TPSPascalCompiler);
15659: begin
15660:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight )');
15661:   Type(TGlyphLayout', '( glTop, glCenter, glBottom )');
15662:   Type(TDisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome )');
15663:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis )');
15664:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed )');
15665:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15666:     +' bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft )');
15667:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional )');
15668:   Type(TcyBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext )');
15669:   Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle )');
15670:   Type(TDgradOrientationShape', '( osRadial, osRectangle )');
15671:   Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bnReverseFromColor,bmInvertReverse,
15672:     bmInvertReverseFromColor);
15673:   Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15674:     rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight )');
15675: end;
15676;
15677: procedure SIRegister_WinSvc(CL: TPSPascalCompiler);
15678: begin
15679:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15680:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15681:   Const SERVICES_ACTIVE_DATABASE', 'String') SERVICES_ACTIVE_DATABASEA');
15682:   Const SERVICES_FAILED_DATABASEA', 'String' 'ServicesFailed');
15683:   Const SERVICES_FAILED_DATABASEW', 'String' 'ServicesFailed');
15684:   Const SERVICES_FAILED_DATABASE', 'String' SERVICES_FAILED_DATABASEA');
15685:   Const SC_GROUP_IDENTIFIERA', 'String'). '+');
15686:   Const SC_GROUP_IDENTIFIERW', 'String') '+');
15687:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15688:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFFFFF';
15689:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15690:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15691:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15692:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15693:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15694:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15695:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15696:   Const SERVICE_STOPPED', 'LongWord $00000001);
15697:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15698:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15699:   Const SERVICE_RUNNING', 'LongWord $00000004);
15700:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15701:   Const SERVICE_PAUSED', 'LongWord $00000006);
15702:   Const SERVICE_PAUSED', 'LongWord $00000007);
15703:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15704:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15705:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15706:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15707:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15708:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15709:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15710:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15711:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15712:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15713:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15714:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15715:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15716:   Const SERVICE_START', 'LongWord $0010);
15717:   Const SERVICE_STOP', 'LongWord $0020);
15718:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15719:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15720:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15721:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15722:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15723:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15724:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15725:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15726:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15727:   Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15728:   Const SERVICE_BOOT_START', 'LongWord $00000000);
15729:   Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15730:   Const SERVICE_AUTO_START', 'LongWord $00000002);
15731:   Const SERVICE_DEMAND_START', 'LongWord $00000003);
15732:   Const SERVICE_DISABLED', 'LongWord $00000004);
15733:   Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15734:   Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15735:   Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15736:   Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15737:   CL.AddTypeS('SC_HANDLE', 'THandle');
15738: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15739:   CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15740:   Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState '
15741:     +' DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15742:     +' cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15743:   Const SERVICE_STATUS', '_SERVICE_STATUS');
15744:   Const TServiceStatus', '_SERVICE_STATUS');

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15745: CL.AddTypeS(' _ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15746: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15747: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15748: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15749: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15750: TEnumServiceStatus', 'TEnumServiceStatusA');
15751: SC_LOCK', '__Pointer');
15752: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOwner: PChar; dwLockDuration:DWORD; end';
15753: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15754: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15755: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15756: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15757: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15758: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15759: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15760: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15761: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15762: +'iceStartTime : PChar; lpDisplayName : PChar; end');
15763: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15764: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15765: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15766: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15767: TQueryServiceConfig', 'TQueryServiceConfigA');
15768: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL';
15769: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15770: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15771: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE');
15772: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15773: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE');
15774: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15775: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL';
15776: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD):BOOL';
15777: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15778: Function GetService DisplayName(hSCManager:SC_HANDLE;lpServiceNme,lpDisplayname:PChar;var
lpcchBuffer:DWORD):BOOL;
15779: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK';
15780: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL';
15781: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE';
15782: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE';
15783: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL';
15784: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15785: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15786: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15787: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL';
15788: end;
15789:
15790: procedure SIRegister_JvPickDate(CL: TPSPascalCompiler);
15791: begin
15792: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor : TColor;
BtnHints : TStrings; MinDate : TDateTime; MaxDate : TDateTime ) : Boolean;
15793: Function SelectDateStr(Sender : TWinControl;var StrDate:string;const
DlgCaption : TCaption; AStartOfWeek : TDayOfWeekName; AWeekend : TDaysOfWeek; AWeekendClr : TColor; BtnHints : TStrings; MinDate : TDateTime;
15794: Function PopupDate(var Date : TDateTime; Edit : TWinControl; MinDate : TDateTime; MaxDate : TDateTime) : Boolean;
15795: Function CreatePopupCalendar(AOwner : TComponent; ABiDiMode : TBiDiMode; MinDate : TDateTime; MaxDate : TDateTime) :
TWinControl;
15796: Procedure SetupPopupCalendar(PopupCalendar : TWinControl; AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek;
AWeekendColor : TColor; BtnHints : TStrings; FourDigitYear : Boolean; MinDate : TDateTime; MaxDate : TDateTime );
15797: Function CreateNotifyThread(const
FolderName : string; WatchSubtree : Bool; Filter : TFileChangeFilters) : TJvNotifyThread;
15798: end;
15799:
15800: procedure SIRegister_JclNTFS2(CL: TPSPascalCompiler);
15801: begin
15802: CL.AddClassN(CL.FindClass('TOBJECT'), 'EJclNtfsError');
15803: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15804: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean';
15805: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState';
15806: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean';
15807: Procedure NtfsSetfileCompression2( const FileName : TFileName; const State : TFileCompressionState );
15808: Procedure NtfsSetDirectoryTreeCompression2( const Directory : string; const State : TFileCompressionState );
15809: Procedure NtfsSetDefaultFileCompression2( const Directory : string; const State : TFileCompressionState );
15810: Procedure NtfsSetPathCompression2( const Path : string; const State : TFileCompressionState; Recursive : Bool );
15811: Function NtfsSetSparse2( const FileName : string ) : Boolean';
15812: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean';
15813: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean';
15814: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean';
15815: Function NtfsGetSparse2( const FileName : string ) : Boolean';
15816: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean';
15817: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean';
15818: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean';
15819: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean';

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15820: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean';
15821: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean';
15822: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean';
15823: Function NtfsMountVolume2( const Volume : WideChar; const MountPoint : WideString ) : Boolean';
15824: CL.AddTypeS('TOpLock', '( olExclusive, olReadonly, olBatch, olFilter )');
15825: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15826: Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15827: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15828: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15829: Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ):Boolean';
15830: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean';
15831: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15832: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string):Boolean;
15833: CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15834: +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints,siSparseFile)');
15835: CL.AddTypeS('TStreamIds', 'set of TStreamId');
15836: TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15837: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15838: +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15839: Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Bool;
15840: Function NtfsFindNextStream2( var Data : TFindStreamData) : Boolean';
15841: Function NtfsFindStreamClose2( var Data : TFindStreamData) : Boolean';
15842: Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean';
15843: Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15844: Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15845: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15846: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean';
15847: Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card:const
List:TStrings):Bool
15848: Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15849: FindClass ('TOBJECT','EJclFileSummaryError');
15850: TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )';
15851: TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )';
15852: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean';
15853: CL.AddClassN(CL.FindClass('TOBJECT','TJclFileSummary'));
15854: SIRegister_TJclFilePropertySet(CL);
15855: //CL.AddTypes('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15856: SIRegister_TJclFileSummary(CL);
15857: SIRegister_TJclDocSummaryInformation(CL);
15858: SIRegister_TJclMediaFileSummaryInformation(CL);
15859: SIRegister_TJclMSISummaryInformation(CL);
15860: SIRegister_TJclShellSummaryInformation(CL);
15861: SIRegister_TJclStorageSummaryInformation(CL);
15862: SIRegister_TJclImageSummaryInformation(CL);
15863: SIRegister_TJclDisplacedSummaryInformation(CL);
15864: SIRegister_TJclBriefCaseSummaryInformation(CL);
15865: SIRegister_TJclMiscSummaryInformation(CL);
15866: SIRegister_TJclWebViewSummaryInformation(CL);
15867: SIRegister_TJclMusicSummaryInformation(CL);
15868: SIRegister_TJclJpegSummaryInformation(CL);
15869: SIRegister_TJclDRMSummaryInformation(CL);
15870: SIRegister_TJclVideoSummaryInformation(CL);
15871: SIRegister_TJclAudioSummaryInformation(CL);
15872: SIRegister_TJclControlPanelSummaryInformation(CL);
15873: SIRegister_TJclVolumeSummaryInformation(CL);
15874: SIRegister_TJclShareSummaryInformation(CL);
15875: SIRegister_TJclLinkSummaryInformation(CL);
15876: SIRegister_TJclQuerySummaryInformation(CL);
15877: SIRegister_TJclImageInformation(CL);
15878: SIRegister_TJclJpegSummaryInformation(CL);
15879: end;
15880:
15881: procedure SIRegister_Jcl8087(CL: TPPSPascalCompiler);
15882: begin
15883: AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15884: T8087Rounding', '( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate )';
15885: T8087Infinity', '( icProjective, icAffine )';
15886: T8087Exception', '(emInvalidOp,emDenormalizedOperand,emZeroDivide,emOverflow,emUnderflow,emPrecision';
15887: CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15888: Function Get8087ControlWord : Word';
15889: Function Get8087Infinity : T8087Infinity';
15890: Function Get8087Precision : T8087Precision';
15891: Function Get8087Rounding : T8087Rounding';
15892: Function Get8087StatusWord( ClearExceptions : Boolean ) : Word';
15893: Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity';
15894: Function Set8087Precision( const Precision : T8087Precision ) : T8087Precision';
15895: Function Set8087Rounding( const Rounding : T8087Rounding ) : T8087Rounding';
15896: Function Set8087ControlWord( const Control : Word ) : Word';
15897: Function ClearPending8087Exceptions : T8087Exceptions';
15898: Function GetPending8087Exceptions : T8087Exceptions';
15899: Function GetMasked8087Exceptions : T8087Exceptions';
15900: Function SetMasked8087Exceptions(Exceptions: T8087Exceptions;ClearBefore:Boolean):T8087Exceptions';
15901: Function Mask8087Exceptions( Exceptions:T8087Exceptions ) : T8087Exceptions';
15902: Function Unmask8087Exceptions(Exceptions:T8087Exceptions;ClearBefore : Boolean) : T8087Exceptions';
15903: end;
15904:
15905: procedure SIRegister_JvBoxProcs(CL: TPPSPascalCompiler);
15906: begin
15907: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl );

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15908: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl );
15909: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
15910: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer );
15911: Procedure BoxMoveSelected( List : TWinControl; Items : TStrings );
15912: Procedure BoxSetItem( List : TWinControl; Index : Integer );
15913: Function BoxGetFirstSelection( List : TWinControl ) : Integer ;
15914: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean ;
15915: end;
15916:
15917: procedure SIRegister_UrlMon(CL: TPSPPascalCompiler);
15918: begin
15919: //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString('URL Context');
15920: //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString('AsyncCallee');
15921: CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6 );
15922: type ULONG', 'Cardinal';
15923:     LPCWSTR', 'PChar');
15924: CL.AddTypeS('LPWSTR', 'PChar');
15925: LPSTR', 'PChar');
15926: TBindVerb', 'ULONG');
15927: TBindInfoF', 'ULONG');
15928: TBindF', 'ULONG');
15929: TBSDF', 'ULONG');
15930: TBindStatus', 'ULONG');
15931: TCIPStatus', 'ULONG');
15932: TBindString', 'ULONG');
15933: TPiFlags', 'ULONG');
15934: TOIBdgFlags', 'ULONG');
15935: TParseAction', 'ULONG');
15936: TPSUAction', 'ULONG');
15937: TQueryOption', 'ULONG');
15938: TPUAF', 'ULONG');
15939: TSZMFlags', 'ULONG');
15940: TUrlZone', 'ULONG');
15941: TUrlTemplate', 'ULONG');
15942: TZAFlags', 'ULONG');
15943: TUrlZoneReg', 'ULONG');
15944: 'URLMON_OPTION_USERAGENT','LongWord').SetUInt( $10000001 );
15945: CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH','LongWord').SetUInt( $10000002 );
15946: const 'URLMON_OPTION_URL_ENCODING','LongWord').SetUInt( $10000004 );
15947: const 'URLMON_OPTION_USE_BINDSTRINGCREDS','LongWord').SetUInt( $10000008 );
15948: const 'CF_NULL','LongInt').SetInt( 0 );
15949: const 'CFSTR MIME NULL','LongInt').SetInt( 0 );
15950: const 'CFSTR MIME TEXT','String').SetString( 'text/plain' );
15951: const 'CFSTR MIME RICHTEXT','String').SetString( 'text/richtext' );
15952: const 'CFSTR MIME_X_BITMAP','String').SetString( 'image/x-bitmap' );
15953: const 'CFSTR MIME_POSTSCRIPT','String').SetString( 'application/postscript' );
15954: const 'CFSTR MIME_AIFF','String').SetString( 'audio/aiff' );
15955: const 'CFSTR MIME_BASICAUDIO','String').SetString( 'audio/basic' );
15956: const 'CFSTR MIME_WAV','String').SetString( 'audio/wav' );
15957: const 'CFSTR MIME_X_WAV','String').SetString( 'audio/x-wav' );
15958: const 'CFSTR MIME_GIF','String').SetString( 'image/gif' );
15959: const 'CFSTR MIME_PJPEG','String').SetString( 'image/pjpeg' );
15960: const 'CFSTR MIME_JPEG','String').SetString( 'image/jpeg' );
15961: const 'CFSTR MIME_TIFF','String').SetString( 'image/tiff' );
15962: const 'CFSTR MIME_X_PNG','String').SetString( 'image/x-png' );
15963: const 'CFSTR MIME_BMP','String').SetString( 'image/bmp' );
15964: const 'CFSTR MIME_X_ART','String').SetString( 'image/x-jg' );
15965: const 'CFSTR MIME_X_EMF','String').SetString( 'image/x-emf' );
15966: const 'CFSTR MIME_X_WMF','String').SetString( 'image/x-wmf' );
15967: const 'CFSTR MIME_AVI','String').SetString( 'video/avi' );
15968: const 'CFSTR MIME_MPEG','String').SetString( 'video/mpeg' );
15969: const 'CFSTR MIME_FRACTALS','String').SetString( 'application/fractals' );
15970: const 'CFSTR MIME_RAWDATA','String').SetString( 'application/octet-stream' );
15971: const 'CFSTR MIME_RAWDATASTRM','String').SetString( 'application/octet-stream' );
15972: const 'CFSTR MIME_PDF','String').SetString( 'application/pdf' );
15973: const 'CFSTR MIME_X_AIFF','String').SetString( 'audio/x-aiff' );
15974: const 'CFSTR MIME_X_REALAUDIO','String').SetString( 'audio/x-pn-realaudio' );
15975: const 'CFSTR MIME_XBM','String').SetString( 'image/xbm' );
15976: const 'CFSTR MIME_QUICKTIME','String').SetString( 'video/quicktime' );
15977: const 'CFSTR MIME_X_MSVIDEO','String').SetString( 'video/x-msvideo' );
15978: const 'CFSTR MIME_X_SGI_MOVIE','String').SetString( 'video/x-sgi-movie' );
15979: const 'CFSTR MIME_HTML','String').SetString( 'text/html' );
15980: const 'MK_S_ASYNCRONOUS','LongWord').SetUInt( $000401E8 );
15981: const 'S_ASYNCRONOUS','LongWord').SetUInt( $000401E8 );
15982: const 'E_PENDING','LongWord').SetUInt( $8000000A );
15983: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15984: SIRegister_IPersistMoniker(CL);
15985: SIRegister_IBindProtocol(CL);
15986: SIRegister_IBinding(CL);
15987: const 'BINDVERB_GET','LongWord').SetUInt( $00000000 );
15988: const 'BINDVERB_POST','LongWord').SetUInt( $00000001 );
15989: const 'BINDVERB_PUT','LongWord').SetUInt( $00000002 );
15990: const 'BINDVERB_CUSTOM','LongWord').SetUInt( $00000003 );
15991: const 'BINDINFOF_URLENCODESTGMEDDATA','LongWord').SetUInt( $00000001 );
15992: const 'BINDINFOF_URLENCODEDEXTRAINFO','LongWord').SetUInt( $00000002 );
15993: const 'BINDF_ASYNCRONOUS','LongWord').SetUInt( $00000001 );
15994: const 'BINDF_ASYNCSTORAGE','LongWord').SetUInt( $00000002 );
15995: const 'BINDF_NOPROGRESSIVERENDERING','LongWord').SetUInt( $00000004 );

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15996: const 'BINDF_OFFLINEOPERATION', 'LongWord').SetUInt( $00000008);
15997: const 'BINDF_GETNEWESTVERSION', 'LongWord').SetUInt( $00000010);
15998: const 'BINDF_NOWRITECACHE', 'LongWord').SetUInt( $00000020);
15999: const 'BINDF_NEEDFILE', 'LongWord').SetUInt( $00000040);
16000: const 'BINDF_PULLDATA', 'LongWord').SetUInt( $00000080);
16001: const 'BINDF_IGNORESECURITYPROBLEM', 'LongWord').SetUInt( $00000100);
16002: const 'BINDF_RESYNCHRONIZE', 'LongWord').SetUInt( $00000200);
16003: const 'BINDF_HYPERLINK', 'LongWord').SetUInt( $00000400);
16004: const 'BINDF_NO_UI', 'LongWord').SetUInt( $00000800);
16005: const 'BINDF_SILENTOPERATION', 'LongWord').SetUInt( $00001000);
16006: const 'BINDF_PRAGMA_NO_CACHE', 'LongWord').SetUInt( $00002000);
16007: const 'BINDF_FREE_THREADED', 'LongWord').SetUInt( $00010000);
16008: const 'BINDF_DIRECT_READ', 'LongWord').SetUInt( $00020000);
16009: const 'BINDF_FORMS_SUBMIT', 'LongWord').SetUInt( $00040000);
16010: const 'BINDF_GETFROMCACHE_IF_NET_FAIL', 'LongWord').SetUInt( $00080000);
16011: //const 'BINDF_DONTUSECACHE', '').SetString( BINDF_GETNEWESTVERSION);
16012: //const 'BINDF_DONTPUTINCACHE', '').SetString( BINDF_NOWRITECACHE);
16013: //const 'BINDF_NOCOPYDATA', '').SetString( BINDF_PULLDATA);
16014: const 'BSCF_FIRSTDATANOTIFICATION', 'LongWord').SetUInt( $00000001);
16015: const 'BSCF_INTERMEDIATEDATANOTIFICATION', 'LongWord').SetUInt( $00000002);
16016: const 'BSCF_LASTDATANOTIFICATION', 'LongWord').SetUInt( $00000004);
16017: const 'BSCF_DATAFULLYAVAILABLE', 'LongWord').SetUInt( $00000008);
16018: const 'BSCF_AVAILABLEDATASIZEUNKNOWN', 'LongWord').SetUInt( $00000010);
16019: const 'BINDSTATUS_FINDINGRESOURCE', 'LongInt').SetInt( 1);
16020: const 'BINDSTATUS_CONNECTING', 'LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
16021: const 'BINDSTATUS_REDIRECTING', 'LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
16022: const 'BINDSTATUS_BEGINDOWNLOADDATA', 'LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
16023: const 'BINDSTATUS_DOWNLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADDATA + 1);
16024: const 'BINDSTATUS_ENDDOWNLOADDATA', 'LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
16025: const 'BINDSTATUS_BEGINDOWNLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADDATA + 1);
16026: const 'BINDSTATUS_INSTALLINGCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADCOMPONENTS + 1);
16027: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
16028: const 'BINDSTATUS_USINGCACHEDCOPY', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
16029: const 'BINDSTATUS_SENDINGREQUEST', 'LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
16030: const 'BINDSTATUS_CLASSIDAVAILABLE', 'LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
16031: const 'BINDSTATUS_MIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
16032: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
16033: const 'BINDSTATUS_BEGINSYNCOPERATION', 'LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
16034: const 'BINDSTATUS_ENDSYNCOPERATION', 'LongInt').SetInt( BINDSTATUS_BEGINSYNCOPERATION + 1);
16035: const 'BINDSTATUS_BEGINUPLOADDATA', 'LongInt').SetInt( BINDSTATUS_ENDSYNCOPERATION + 1);
16036: const 'BINDSTATUS_UPLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINUPLOADDATA + 1);
16037: const 'BINDSTATUS_ENDUPLOADDATA', 'LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
16038: const 'BINDSTATUS_PROTOCOLCLASSID', 'LongInt').SetInt( BINDSTATUS_ENDUPLOADDATA + 1);
16039: const 'BINDSTATUS_ENCODING', 'LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
16040: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_ENCODING + 1);
16041: const 'BINDSTATUS_CLASSINSTALLLOCATION', 'LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
16042: const 'BINDSTATUS_DECODING', 'LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
16043: const 'BINDSTATUS_LOADINGMIMEHANDLER', 'LongInt').SetInt( BINDSTATUS_DECODING + 1);
16044: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH', 'LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
16045: const 'BINDSTATUS_FILTERREPORTMIMETYPE', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
16046: const 'BINDSTATUS_CLSIDCANINSTANTIATE', 'LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
16047: const 'BINDSTATUS_IUNKNOWNAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
16048: const 'BINDSTATUS_DIRECTBIND', 'LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
16049: const 'BINDSTATUS_RAWMIMETYPE', 'LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
16050: const 'BINDSTATUS_PROXYDETECTING', 'LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
16051: const 'BINDSTATUS_ACCEPTRANGES', 'LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
16052: const 'BINDSTATUS_COOKIE_SENT', 'LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
16053: const 'BINDSTATUS_COMPACT_POLICY_RECEIVED', 'LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
16054: const 'BINDSTATUS_COOKIE_SUPPRESSED', 'LongInt').SetInt( BINDSTATUS_COMPACT_POLICY_RECEIVED + 1);
16055: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN', 'LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
16056: const 'BINDSTATUS_COOKIE_STATE_ACCEPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
16057: const 'BINDSTATUS_COOKIE_STATE_REJECT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
16058: const 'BINDSTATUS_COOKIE_STATE_PROMPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
16059: const 'BINDSTATUS_COOKIE_STATE_LEASH', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
16060: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
16061: const 'BINDSTATUS_POLICY_HREF', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
16062: const 'BINDSTATUS_P3P_HEADER', 'LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
16063: const 'BINDSTATUS_SESSION_COOKIE RECEIVED', 'LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
16064: const 'BINDSTATUS_PERSISTENT_COOKIE RECEIVED', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIE RECEIVED + 1);
16065: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED', 'LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE RECEIVED + 1);
16066: const 'BINDSTATUS_CACHECONTROL', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
16067: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME', 'LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
16068: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
16069: const 'BINDSTATUS_PUBLISHERAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
16070: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
16071: // PBindInfo , '^TBindInfo // will not work');
16072: {_tagBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
16073: +'medata : TStgMedium; grfBindInfo : DWORD; dwBindVerb : DWORD; szCustomVe'
16074: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
16075: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
16076: +'+UID; pUnk : IUnknown; dwReserved : DWORD; end';
16077: TBindInfo', '_tagBINDINFO');
16078: BINDINFO', '_tagBINDINFO');
16079: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
16080: +'criptor : DWORD; bInheritHandle : BOOL; end');
16081: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
16082: REMSecurity_ATTRIBUTES', '_REMSecurity_ATTRIBUTES');
16083: //PREmBindInfo', '^TRemBindInfo // will not work');
16084: {_tagRemBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; '

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16085: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16086: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16087: +' ; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknow'
16088: +'n; dwReserved : DWORD; end');
16089: TRemBindInfo', '_tagRemBINDINFO');
16090: RemBINDINFO', '_tagRemBINDINFO');
16091: //PREmFormatEtc', '^TRemFormatEtc // will not work');
16092: tagRemFORMATETC','record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16093: TRemFormatEtc', 'tagRemFORMATETC');
16094: RemFORMATETC', 'tagRemFORMATETC');
16095: SIRegister_IBindStatusCallback(CL);
16096: SIRegister_IAuthenticate(CL);
16097: SIRegister_IHttpNegotiate(CL);
16098: SIRegister_IWindowForBindingUI(CL);
16099: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16100: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16101: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16102: const 'CIP_OLDER_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16103: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_OLDER_VERSION_EXISTS + 1);
16104: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16105: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT','LongInt').SetInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16106: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1);
16107: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16108: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16109: SIRegister_ICodeInstall(CL);
16110: SIRegister_IWInetInfo(CL);
16111: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16112: SIRegister_IHttpSecurity(CL);
16113: SIRegister_IWInetHttpInfo(CL);
16114: SIRegister_IBindHost(CL);
16115: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16116: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16117: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16118: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16119: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult';
16120: Function URLDownloadToFile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback ) : HResult');
16121: Function URLDownloadToCacheFile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback ) : HResult');
16122: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback):HResult');
16123: Function HlinkGoBack( unk : IUnknown ) : HResult';
16124: Function HlinkGoForward( unk : IUnknown ) : HResult';
16125: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult');
16126: // Function HlinkNavigateMoniker( unk : IUnknown; mkTarget : IMoniker ) : HResult');
16127: SIRegister_IInternet(CL);
16128: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16129: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16130: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16131: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16132: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16133: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16134: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16135: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16136: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16137: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16138: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16139: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);
16140: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16141: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16142: //POLEStrArray', '^TOLESTRArray // will not work');
16143: SIRegister_IInternetBindInfo(CL);
16144: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16145: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16146: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);
16147: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008);
16148: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010);
16149: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020);
16150: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040);
16151: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080);
16152: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16153: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200);
16154: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000);
16155: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP);
16156: //PProtocolData', '^TProtocolData // will not work');
16157: _tagPROTOCOLDATA', 'record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16158: TProtocolData', '_tagPROTOCOLDATA');
16159: PROTOCOLDATA', '_tagPROTOCOLDATA');
16160: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IIInternetProtocolSink, 'IIInternetProtocolSink');
16161: SIRegister_IInternetProtocolRoot(CL);
16162: SIRegister_IInternetProtocol(CL);
16163: SIRegister_IInternetProtocolSink(CL);
16164: const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16165: SIRegister_IInternetSession(CL);
16166: SIRegister_IInternetThreadSwitch(CL);
16167: SIRegister_IInternetPriority(CL);
16168: const 'PARSE_CANONICALIZE','LongInt').SetInt( 1);
16169: const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1);
16170: const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1);

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16171: const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1);
16172: const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16173: const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1);
16174: const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1);
16175: const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1);
16176: const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1);
16177: const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16178: const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16179: const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16180: const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16181: const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16182: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16183: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16184: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16185: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16186: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16187: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16188: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16189: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16190: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16191: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16192: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16193: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16194: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16195: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16196: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16197: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16198: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16199: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16200: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16201: SIRegister_IInternetProtocolInfo(CL);
16202: IOInet', 'IInternet');
16203: IOInetBindInfo', 'IInternetBindInfo');
16204: IOInetProtocolRoot', 'IInternetProtocolRoot');
16205: IOInetProtocol', 'IInternetProtocol');
16206: IOInetProtocolSink', 'IInternetProtocolSink');
16207: IOInetProtocolInfo', 'IInternetProtocolInfo');
16208: IOInetSession', 'IInternetSession');
16209: IOInetPriority', 'IInternetPriority');
16210: IOInetThreadSwitch', 'IInternetThreadSwitch');
16211: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16212: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16213: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16214: Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags DWORD; dwReserved:DWORD):HResult';
16215: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16216: Function CoInternetGetSession(dwSessionMode:DWORD; var pIInternetSession: IInternetSes;dwReserved:DWORD):HResult;
16217: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16218: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16219: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16220: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : Hresult';
16221: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult';
16222: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16223: Function OInetGetSession(dwSessionMode:DWORD; var pIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16224: //Function CopyBindInfo( const cbiSrc : TBindInfo; var biDest : TBindInfo) : HResult';
16225: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16226: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult ( $800C0011 ) );
16227: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult ( $800C0012 ) );
16228: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult ( $800C0011 ) );
16229: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult ( $800C0013 ) );
16230: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult ( $800C0014 ) );
16231: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001);
16232: SIRegister_IInternetSecurityMgrSite(CL);
16233: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001);
16234: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002);
16235: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16236: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16237: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16238: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16239: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16240: const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16241: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);
16242: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004);
16243: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008);
16244: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010);
16245: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020);
16246: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040);
16247: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16248: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16249: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200);
16250: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);

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16251: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000);
16252: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000);
16253: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000);
16254: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000);
16255: const 'PUAF_NOUIFLOCKED','LongWord').SetUInt( $00100000);
16256: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0);
16257: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1);
16258: const 'SZM_CREATE','LongWord').SetUInt( $00000000);
16259: const 'SZM_DELETE','LongWord').SetUInt( $00000001);
16260: SIRegister_IInternetSecurityManager(CL);
16261: SIRegister_IInternetHostSecurityManager(CL);
16262: SIRegister_IInternetSecurityManagerEx(CL);
16263: const 'URLACTION_MIN','LongWord').SetUInt( $00001000);
16264: const 'URLACTION_DOWNLOAD_MIN','LongWord').SetUInt( $00001000);
16265: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX','LongWord').SetUInt( $00001001);
16266: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX','LongWord').SetUInt( $00001004);
16267: const 'URLACTION_DOWNLOAD_CURR_MAX','LongWord').SetUInt( $00001004);
16268: const 'URLACTION_DOWNLOAD_MAX','LongWord').SetUInt( $000011FF);
16269: const 'URLACTION_ACTIVEX_MIN','LongWord').SetUInt( $00001200);
16270: const 'URLACTION_ACTIVEX_RUN','LongWord').SetUInt( $00001200);
16271: const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY','LongWord').SetUInt( $00001201);
16272: const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY','LongWord').SetUInt( $00001202);
16273: const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY','LongWord').SetUInt( $00001203);
16274: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY','LongWord').SetUInt( $00001401);
16275: const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY','LongWord').SetUInt( $00001204);
16276: const 'URLACTION_ACTIVEX_TREATASUNTRUSTED','LongWord').SetUInt( $00001205);
16277: const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT','LongWord').SetUInt( $00001206);
16278: const 'URLACTION_ACTIVEX_CURR_MAX','LongWord').SetUInt( $00001206);
16279: const 'URLACTION_ACTIVEX_MAX','LongWord').SetUInt( $000013FF);
16280: const 'URLACTION_SCRIPT_MIN','LongWord').SetUInt( $00001400);
16281: const 'URLACTION_SCRIPT_RUN','LongWord').SetUInt( $00001400);
16282: const 'URLACTION_SCRIPT_JAVA_USE','LongWord').SetUInt( $00001402);
16283: const 'URLACTION_SCRIPT_SAFE_ACTIVEX','LongWord').SetUInt( $00001405);
16284: const 'URLACTION_SCRIPT_CURR_MAX','LongWord').SetUInt( $00001405);
16285: const 'URLACTION_SCRIPT_MAX','LongWord').SetUInt( $000015FF);
16286: const 'URLACTION_HTML_MIN','LongWord').SetUInt( $00001600);
16287: const 'URLACTION_HTML_SUBMIT_FORMS','LongWord').SetUInt( $00001601);
16288: const 'URLACTION_HTML_SUBMIT_FORMS_FROM','LongWord').SetUInt( $00001602);
16289: const 'URLACTION_HTML_SUBMIT_FORMS_TO','LongWord').SetUInt( $00001603);
16290: const 'URLACTION_HTML_FONT_DOWNLOAD','LongWord').SetUInt( $00001604);
16291: const 'URLACTION_HTML_JAVA_RUN','LongWord').SetUInt( $00001605);
16292: const 'URLACTION_HTML_CURR_MAX','LongWord').SetUInt( $00001605);
16293: const 'URLACTION_HTML_MAX','LongWord').SetUInt( $000017FF);
16294: const 'URLACTION_SHELL_MIN','LongWord').SetUInt( $00001800);
16295: const 'URLACTION_SHELL_INSTALL_DITITEMS','LongWord').SetUInt( $00001800);
16296: const 'URLACTION_SHELL_MOVE_OR_COPY','LongWord').SetUInt( $00001802);
16297: const 'URLACTION_SHELL_FILE_DOWNLOAD','LongWord').SetUInt( $00001803);
16298: const 'URLACTION_SHELL_VERB','LongWord').SetUInt( $00001804);
16299: const 'URLACTION_SHELL_WEBVIEW_VERB','LongWord').SetUInt( $00001805);
16300: const 'URLACTION_SHELL_SHELLEXECUTE','LongWord').SetUInt( $00001806);
16301: const 'URLACTION_SHELL_EXECUTE_HIGHRISK','LongWord').SetUInt( $00001806);
16302: const 'URLACTION_SHELL_EXECUTE_MODRISK','LongWord').SetUInt( $00001807);
16303: const 'URLACTION_SHELL_EXECUTE_LOWRISK','LongWord').SetUInt( $00001808);
16304: const 'URLACTION_SHELL_POPUPMGR','LongWord').SetUInt( $00001809);
16305: const 'URLACTION_SHELL_CURR_MAX','LongWord').SetUInt( $00001809);
16306: const 'URLACTION_SHELL_MAX','LongWord').SetUInt( $000019FF);
16307: const 'URLACTION_NETWORK_MIN','LongWord').SetUInt( $00001A00);
16308: const 'URLACTION_CREDENTIALS_USE','LongWord').SetUInt( $00001A00);
16309: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK','LongWord').SetUInt( $00000000);
16310: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER','LongWord').SetUInt( $00010000);
16311: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT','LongWord').SetUInt( $00020000);
16312: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY','LongWord').SetUInt( $00030000);
16313: const 'URLACTION_AUTHENTICATE_CLIENT','LongWord').SetUInt( $00001A01);
16314: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK','LongWord').SetUInt( $00000000);
16315: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE','LongWord').SetUInt( $00010000);
16316: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY','LongWord').SetUInt( $00030000);
16317: const 'URLACTION_NETWORK_CURR_MAX','LongWord').SetUInt( $00001A01);
16318: const 'URLACTION_NETWORK_MAX','LongWord').SetUInt( $00001BFF);
16319: const 'URLACTION_JAVA_MIN','LongWord').SetUInt( $00001C00);
16320: const 'URLACTION_JAVA_PERMISSIONS','LongWord').SetUInt( $00001C00);
16321: const 'URLPOLICY_JAVA_PROHIBIT','LongWord').SetUInt( $00000000);
16322: const 'URLPOLICY_JAVA_HIGH','LongWord').SetUInt( $00010000);
16323: const 'URLPOLICY_JAVA_MEDIUM','LongWord').SetUInt( $00020000);
16324: const 'URLPOLICY_JAVA_LOW','LongWord').SetUInt( $00030000);
16325: const 'URLPOLICY_JAVA_CUSTOM','LongWord').SetUInt( $00800000);
16326: const 'URLACTION_JAVA_CURR_MAX','LongWord').SetUInt( $00001C00);
16327: const 'URLACTION_JAVA_MAX','LongWord').SetUInt( $00001CFF);
16328: const 'URLACTION_INFODELIVERY_MIN','LongWord').SetUInt( $00001D00);
16329: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS','LongWord').SetUInt( $00001D00);
16330: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS','LongWord').SetUInt( $00001D01);
16331: const 'URLACTION_INFODELIVERY_NO_NO_Removing_CHANNELS','LongWord').SetUInt( $00001D02);
16332: const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D03);
16333: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D04);
16334: const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS','LongWord').SetUInt( $00001D05);
16335: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING','LongWord').SetUInt( $00001D06);
16336: const 'URLACTION_INFODELIVERY_CURR_MAX','LongWord').SetUInt( $00001D06);
16337: const 'URLACTION_INFODELIVERY_MAX','LongWord').SetUInt( $00001Dff);
16338: const 'URLACTION_CHANNEL_SOFTDIST_MIN','LongWord').SetUInt( $00001E00);
16339: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS','LongWord').SetUInt( $00001E05);

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16340: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT', 'LongWord').SetUInt( $00010000);
16341: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE', 'LongWord').SetUInt( $00020000);
16342: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL', 'LongWord').SetUInt( $00030000);
16343: const 'URLACTION_CHANNEL_SOFTDIST_MAX', 'LongWord').SetUInt( $00001EFF);
16344: const 'URLACTION_BEHAVIOR_MIN', 'LongWord').SetUInt( $00002000);
16345: const 'URLACTION_BEHAVIOR_RUN', 'LongWord').SetUInt( $00002000);
16346: const 'URLPOLICY_BEHAVIOR_CHECK_LIST', 'LongWord').SetUInt( $00010000);
16347: const 'URLACTION_FEATURE_MIN', 'LongWord').SetUInt( $00002100);
16348: const 'URLACTION_FEATURE_MIME_SNIFFING', 'LongWord').SetUInt( $00002100);
16349: const 'URLACTION_FEATURE_ZONE_ELEVATION', 'LongWord').SetUInt( $00002101);
16350: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS', 'LongWord').SetUInt( $00002102);
16351: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN', 'LongWord').SetUInt( $00002200);
16352: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI', 'LongWord').SetUInt( $00002201);
16353: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS', 'LongWord').SetUInt( $00002300);
16354: const 'URLPOLICY_ALLOW', 'LongWord').SetUInt( $00);
16355: const 'URLPOLICY_QUERY', 'LongWord').SetUInt( $01);
16356: const 'URLPOLICY_DISALLOW', 'LongWord').SetUInt( $03);
16357: const 'URLPOLICY_NOTIFY_ON_ALLOW', 'LongWord').SetUInt( $10);
16358: const 'URLPOLICY_NOTIFY_ON_DISALLOW', 'LongWord').SetUInt( $20);
16359: const 'URLZONE_LOG_ON_ALLOW', 'LongWord').SetUInt( $40);
16360: const 'URLPOLICY_LOG_ON_DISALLOW', 'LongWord').SetUInt( $80);
16361: const 'URLPOLICY_MASK_PERMISSIONS', 'LongWord').SetUInt( $0F);
16362: Function GetUrlPolicyPermissions( dw : DWORD) : DWORD';
16363: Function SetUrlPolicyPermissions( dw, dw2 : DWORD) : DWORD';
16364: const 'URLZONE_PREDEFINED_MIN', 'LongInt').SetInt( 0);
16365: const 'URLZONE_LOCAL_MACHINE', 'LongInt').SetInt( 0);
16366: const 'URLZONE_INTRANET', 'LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16367: const 'URLZONE_TRUSTED', 'LongInt').SetInt( URLZONE_INTRANET + 1);
16368: const 'URLZONE_INTERNET', 'LongInt').SetInt( URLZONE_TRUSTED + 1);
16369: const 'URLZONE_UNTRUSTED', 'LongInt').SetInt( URLZONE_INTERNET + 1);
16370: const 'URLZONE_PREDEFINED_MAX', 'LongInt').SetInt( 999);
16371: const 'URLZONE_USER_MIN', 'LongInt').SetInt( 1000);
16372: const 'URLZONE_USER_MAX', 'LongInt').SetInt( 10000);
16373: const 'URLTEMPLATE_CUSTOM', 'LongWord').SetUInt( $00000000);
16374: const 'URLTEMPLATE_PREDEFINED_MIN', 'LongWord').SetUInt( $00010000);
16375: const 'URLTEMPLATE_LOW', 'LongWord').SetUInt( $00010000);
16376: const 'URLTEMPLATE_MEDIUM', 'LongWord').SetUInt( $00011000);
16377: const 'URLTEMPLATE_HIGH', 'LongWord').SetUInt( $00012000);
16378: const 'URLTEMPLATE_PREDEFINED_MAX', 'LongWord').SetUInt( $00020000);
16379: const 'MAX_ZONE_PATH', 'LongInt').SetInt( 260);
16380: const 'MAX_ZONE_DESCRIPTION', 'LongInt').SetInt( 200);
16381: const 'ZAFLAGS_CUSTOM_EDIT', 'LongWord').SetUInt( $00000001);
16382: const 'ZAFLAGS_ADD_SITES', 'LongWord').SetUInt( $00000002);
16383: const 'ZAFLAGS_REQUIRE_VERIFICATION', 'LongWord').SetUInt( $00000004);
16384: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE', 'LongWord').SetUInt( $00000008);
16385: const 'ZAFLAGS_INCLUDE_INTRANET_SITES', 'LongWord').SetUInt( $00000010);
16386: const 'ZAFLAGS_NO_UI', 'LongWord').SetUInt( $00000020);
16387: const 'ZAFLAGS_SUPPORTS_VERIFICATION', 'LongWord').SetUInt( $00000040);
16388: const 'ZAFLAGS_UNC_AS_INTRANET', 'LongWord').SetUInt( $00000080);
16389: const 'ZAFLAGS_USE_LOCKED_ZONES', 'LongWord').SetUInt( $00010000);
16390: //PZoneAttributes', '^TZoneAttributes // will not work';
16391: _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');
16392: { _ZONEATTRIBUTES = packed record
16393:   cbSize: ULONG;
16394:   szDisplayName: array [0..260 - 1] of WideChar;
16395:   szDescription: array [0..200 - 1] of WideChar;
16396:   szIconPath: array [0..260 - 1] of WideChar;
16397:   dwTemplateMinLevel: DWORD;
16398:   dwTemplateRecommended: DWORD;
16399:   dwTemplateCurrentLevel: DWORD;
16400:   dwFlags: DWORD;
16401: end; }
16402: TZoneAttributes', '_ZONEATTRIBUTES');
16403: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16404: const 'URLZONEREG_DEFAULT', 'LongInt').SetInt( 0);
16405: const 'URLZONEREG_HKLM', 'LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16406: const 'URLZONEREG_HKCU', 'LongInt').SetInt( URLZONEREG_HKLM + 1);
16407: SIRegister_IInternetZoneManager(CL);
16408: SIRegister_IInternetZoneManagerEx(CL);
16409: const 'SOFTDIST_FLAG_USAGE_EMAIL', 'LongWord').SetUInt( $00000001);
16410: const 'SOFTDIST_FLAG_USAGE_PRECACHE', 'LongWord').SetUInt( $00000002);
16411: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL', 'LongWord').SetUInt( $00000004);
16412: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION', 'LongWord').SetUInt( $00000008);
16413: const 'SOFTDIST_ADSTATE_NONE', 'LongWord').SetUInt( $00000000);
16414: const 'SOFTDIST_ADSTATE_AVAILABLE', 'LongWord').SetUInt( $00000001);
16415: const 'SOFTDIST_ADSTATE_DOWNLOADED', 'LongWord').SetUInt( $00000002);
16416: const 'SOFTDIST_ADSTATE_INSTALLED', 'LongWord').SetUInt( $00000003);
16417: //PCodeBaseHold', '^TCodeBaseHold // will not work';
16418: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16419:   + 'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionLS : DWORD; dwStyle : DWORD; end');
16420: TCodeBaseHold', '_tagCODEBASEHOLD');
16421: CODEBASEHOLD', '_tagCODEBASEHOLD');
16422: //PSofDistInfo', '^TSoftDistInfo // will not work');
16423: _tagsOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd';
16424:   + 'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI';
16425:   + 'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16426: 
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16427:     +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve'
16428:     +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16429:     TSoftDistInfo', '_tagSOFTDISTINFO');
16430:     SOFTDISTINFO', '_tagSOFTDISTINFO');
16431:     SIRegister_ISoftDistExt(CL);
16432:     Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo) : HResult');
16433:     Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult');
16434:     SIRegister_IDataFilter(CL);
16435: // PProtocolFilterData', '^TProtocolFilterData // will not work');
16436:     _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink :
16437:     +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16438:     +terFlags : DWORD; end');
16439:     TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16440:     PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16441: // PDataInfo', '^TDataInfo // will not work');
16442:     _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16443:     +ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16444:     TDataInfo', '_tagDATAINFO');
16445:     DATAINFO', '_tagDATAINFO');
16446:     SIRegister_IEncodingFilterFactory(CL);
16447:     Function IsLoggingEnabled( pszUrl : PChar) : BOOL');
16448: //Function IsLoggingEnabledA( pszUrl : PAnsiChar) : BOOL';
16449: //Function IsloggingEnabledW( pszUrl : PWideChar) : BOOL';
16450: //PHitLoggingInfo', '^THitLoggingInfo // will not work');
16451:     _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16452:     +rlName : LPSTR; StartTime : TSystemTime; EndTime:TSystemTime; lpszExtendedInfo : LPSTR; end');
16453:     THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16454:     HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16455:     Function WriteHitLogging( const Logginginfo : THitLoggingInfo) : BOOL');
16456: end;
16457:
16458: procedure SIRegister_DFFUtils(CL: TPSPascalCompiler);
16459: begin
16460:     Procedure reformatMemo( const m : TCustomMemo)');
16461:     Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer)');
16462:     Procedure MoveToTop( memo : TMemo)');
16463:     Procedure ScrollToTop( memo : TMemo)');
16464:     Function LineNumberClicked( memo : TMemo) : integer');
16465:     Function MemoClickedLine( memo : TMemo) : integer');
16466:     Function ClickedMemoLine( memo : TMemo) : integer');
16467:     Function MemoLineClicked( memo : TMemo) : integer');
16468:     Function LinePositionClicked( Memo : TMemo) : integer');
16469:     Function ClickedMemoPosition( memo : TMemo) : integer');
16470:     Function MemoPositionClicked( memo : TMemo) : integer');
16471:     Procedure AdjustGridSize( grid : TDrawGrid)');
16472:     Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer)');
16473:     Procedure InsertGridRow( Grid : TStringGrid; const ARow : integer)');
16474:     Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer)');
16475:     Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascending : boolean)');
16476:     Procedure sortstrDown( var s : string)');
16477:     Procedure sortstrUp( var s : string)');
16478:     Procedure rotatestrleft( var s : string)');
16479:     Function dffstrtofloatdef( s : string; default : extended) : extended');
16480:     Function deblank( s : string) : string');
16481:     Function IntToBinaryString( const n : integer; MinLength : integer) : string');
16482:     Procedure FreeAndClearListBox( C : TListBox)');
16483:     Procedure FreeAndClearMemo( C : TMemo)');
16484:     Procedure FreeAndClearStringList( C : TStringList)');
16485:     Function dffgetfilesize( f : TSearchrec) : int64');
16486: end;
16487:
16488: procedure SIRegister_MathsLib(CL: TPSPascalCompiler);
16489: begin
16490:     CL.AddTypeS('intset', 'set of byte');
16491:     TPoint64', 'record x : int64; y : int64; end');
16492:     Function GetNextPandigital( size : integer; var Digits : array of integer) : boolean');
16493:     Function IsPolygonal( T : int64; var rank : array of integer) : boolean');
16494:     Function GeneratePentagon( n : integer) : integer');
16495:     Function IsPentagon( p : integer) : boolean');
16496:     Function isSquare( const N : int64) : boolean');
16497:     Function isCube( const N : int64) : boolean');
16498:     Function isPalindrome( const n : int64) : boolean');
16499:     Function isPalindrome1( const n : int64; var len : integer) : boolean');
16500:     Function GetEulerPhi( n : int64) : int64');
16501:     Function dffIntPower( a, b : int64) : int64');
16502:     Function IntPower1( a : extended; b : int64) : extended');
16503:     Function gcd2( a, b : int64) : int64');
16504:     Function GCDMany( A : array of integer) : integer');
16505:     Function LCMMany( A : array of integer) : integer');
16506:     Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16507:     Function dffFactorial( n : int64) : int64');
16508:     Function digitcount( n : int64) : integer');
16509:     Function nextpermute( var a : array of integer) : boolean');
16510:     Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string');
16511:     Function convertStringToDecimal( s : string; var n : extended) : Boolean');
16512:     Function InttoBinaryStr( nn : integer) : string');
16513:     Function StrtoAngle( const s : string; var angle : extended) : boolean');
16514:     Function AngleToStr( angle : extended) : string');

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16515: Function deg2rad( deg : extended ) : extended');
16516: Function rad2deg( rad : extended ) : extended');
16517: Function GetLongToMercProjection( const long : extended ) : extended');
16518: Function GetLatToMercProjection( const Lat : Extended ) : Extended');
16519: Function GetMercProjectionToLong( const ProjLong : extended ) : extended');
16520: Function GetMercProjectionToLat( const ProjLat : extended ) : extended');
16521: SIRegister_TPrimes(CL);
16522: //RIRegister_TPrimes(CL);
16523: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16524: CL.AddConstantN('minmark','LongInt').SetInt( 180);
16525: Function Random64( const N : Int64 ) : Int64;');
16526: Procedure Randomize64());
16527: Function Random641 : extended');
16528: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist )//DFFUUtils
16529: end;
16530:
16531: procedure SIRegister_UGeometry(CL: TPSPascalCompiler);
16532: begin
16533:   TrealPoint', 'record x : extended; y : extended; end');
16534:   Tline', 'record p1 : TPoint; p2 : TPoint; end');
16535:   TRealLine', 'record p1 : TRealPoint; p2 : TRealPoint; end');
16536:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16537:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16538:   PPResult', '( PPointSide, PPIInside, PPVertex, PPEdge, PPError )');
16539:   Function realpoint( x, y : extended ) : TRealPoint');
16540:   Function dist( const p1, p2 : TrealPoint ) : extended');
16541:   Function intdist( const p1, p2 : TPoint ) : integer');
16542:   Function dffLine( const p1, p2 : TPoint ) : Tline');
16543:   Function Line1( const p1, p2 : TRealPoint ) : TRealLine');
16544:   Function dffCircle( const cx, cy, R : integer ) : TCircle');
16545:   Function Circle1( const cx, cy, R : extended ) : TRealCircle');
16546:   Function GetTheta( const L : TLine ) : extended');
16547:   Function GetTheta1( const p1, p2 : TPoint ) : extended');
16548:   Function GetTheta2( const p1, p2 : TRealPoint ) : extended');
16549:   Procedure Extendline( var L : TLine; dist : integer );
16550:   Procedure Extendline1( var L : TRealLine; dist : extended );
16551:   Function Linesintersect( line1, line2 : TLine ) : boolean');
16552:   Function ExtendedLinesIntersect( Line1, Line2 : TLine; const extendlines : bool; var IP : TPoint ) : bool;
16553:   Function ExtendedLinesIntersect1( const Line1, Line2 : TLine; const extendlines : bool; var IP : TRealPoint ) : bool;
16554:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean';
16555:   Function PointPerpendiculararline( L : TLine; P : TPoint ) : TLine );
16556:   Function PerpDistance( L : TLine; P : TPoint ) : Integer );
16557:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine );
16558:   Function AngledLineFromLine1( L : TLine; P : TPoint; Dist : extended; alpha : extended; useScreenCoordinates : bool ) : TLine;
16559:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult );
16560:   Function PolygonArea( const points : array of TPoint; const screencoordinates : boolean; var Clockwise : bool );
16561:   Procedure InflatePolygon( const points : array of TPoint; var points2 : array of TPoint; var area : integer; const screenCoordinates : boolean; const inflateby : integer );
16562:   Function PolyBuiltClockwise( const points : array of TPoint; const screencoordinates : boolean ) : bool;
16563:   Function DegtоРад( d : extended ) : extended );
16564:   Function RadtoDeg( r : extended ) : extended );
16565:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint );
16566:   Procedure TranslateLeftTol( var L : TrealLine; newend : TrealPoint );
16567:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16568:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16569:   Procedure RotateRightEndTol( var p1, p2 : Trealpoint; alpha : extended );
16570:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, IP2 : TPoint ) : boolean );
16571:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, IP2 : TRealPoint ) : boolean );
16572:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean );
16573:   Function CircleCircleExtTangentLines( C1, C2 : TCircle; var C3 : TCircle; var L1, L2, PL1, PL2, TL1, TL2 : TLine ) : Bool;
16574: end;
16575:
16576:
16577: procedure SIRegister_UAstronomy(CL: TPSPascalCompiler);
16578: begin
16579:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat )');
16580:   TDTType', '( ttLocal, ttUT, ttGST, ttLST )');
16581:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16582:   TSunrec', 'record TrueEclLon : extended;
16583:     AppEclLon : extended; AUDistance : extended; TrueHADecl : TRPoint; TrueRADecl : TRPoint;
16584:     TrueAzAlt : TRPoint; AppHADecl : TRPoint; AppRADecl : TRPoint; AppAzAlt : TRPoint; SunMeanAnomaly : extended; end;
16585:     TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
16586:       + ' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'
16587:       + 'arth : extended; Phase : extended; end');
16588:     TMeMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16589:       + 'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDatetime; end');
16590:     TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16591:       + 'ct : TDatetime; LastContact : Date; Magnitude : Extended; MaxEclipseUTime : Date; end');
16592:     TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16593:     TPlanetRec', 'record AsOf : Date; Name : string; MeanLon : '
16594:       + 'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16595:       + 'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16596:       + 'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16597:     TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRPoint; RadiusVector : '
16598:       extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRPoint; CorrectedEarthDistance : extended;
16599:       ApparentRaDecl : TRPoint; end');
16596:   SIRegister_TAstronomy(CL);

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16597: Function AngleToStr( angle : extended ) : string');
16598: Function StrToAngle( s : string; var angle : extended ) : boolean');
16599: Function HoursToStr24( t : extended ) : string');
16600: Function RPoint( x, y : extended ) : TRPoint');
16601: Function getStimename( t : TDTType ) : string');
16602: end;
16603:
16604: procedure SIRegister_UCardComponentV2(CL: TPSPascalCompiler);
16605: begin
16606:   TCardValue', 'Integer');
16607:   TCardSuit', '( Spades, Diamonds, Clubs, Hearts ');
16608:   TShortSuit', '( cardS, cardD, cardC, cardH ');
16609:   Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16610:   SIRegister_TCard(CL);
16611:   SIRegister_TDeck(CL);
16612: end;
16613:
16614: procedure SIRegister_UTGraphSearch(CL: TPSPascalCompiler);
16615: begin
16616:   tMethodCall', 'Procedure');
16617:   tVerboseCall', 'Procedure ( s : string)');
16618: // PTEdge', '^TEdge // will not work');
16619:   TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16620:     +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16621:   SIRegister_TNode(CL);
16622:   SIRegister_TGraphList(CL);
16623: end;
16624:
16625: procedure SIRegister_UParser10(CL: TPSPascalCompiler);
16626: begin
16627:   ParserFloat', 'extended');
16628: //PParserFloat', '^ParserFloat // will not work');
16629:   TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod'
16630:     +'ulo, IntDiv, IntDIVZ, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar ');
16631: //POperation', '^TOperation // will not work');
16632:   TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16633:     +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure'
16634:     +'; Token : TDFFToken; end');
16635: TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16636: (CL.FindClass('TOBJECT'),'EMathParserError');
16637: CL.FindClass('TOBJECT','ESyntaxError');
16638: (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16639: (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16640: (CL.FindClass('TOBJECT'),'ETooManyNestings');
16641: (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16642: (CL.FindClass('TOBJECT'),'EBadName');
16643: (CL.FindClass('TOBJECT'),'EParserInternalError');
16644: ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16645: SIRegister_TCustomParser(CL);
16646: SIRegister_TExParser(CL);
16647: end;
16648:
16649: function isService: boolean;
16650: begin
16651:   result:= NOT(Application is TApplication);
16652:   {result:= Application is TServiceApplication;}
16653: end;
16654: function isApplication: boolean;
16655: begin
16656:   result:= Application is TApplication;
16657: end;
16658: //SM_REMOTESESSION = $1000
16659: function isTerminalSession: boolean;
16660: begin
16661:   result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16662: end;
16663:
16664: procedure SIRegister_cyIEUtils(CL: TPSPascalCompiler);
16665: begin
16666:   CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header :
16667:   +'String; margin_bottom : String; margin_left : String; margin_right : String';
16668:   +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16669:   Function cyURLEncode( const S : string ) : string');
16670:   Function MakeResourceURL( const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16671:   Function MakeResourceURL1( const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;
16672:   Function cyColorToHtml( aColor : TColor ) : String');
16673:   Function HtmlToColor( aHtmlColor : String ) : TColor');
16674: //Function GetStreamEncoding( aStream : TStream ) : TEncoding');
16675: // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean');
16676: Function AddHtmlUnicodePrefix( aHtml : String ) : String');
16677: Function RemoveHtmlUnicodePrefix( aHtml : String ) : String');
16678: Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16679: Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16680: CL.AddConstantN('IEBodyBorderless','String').SetString('none');
16681: CL.AddConstantN('IEBodySingleBorder','String').SetString('');
16682: CL.AddConstantN('IEDesignModeOn','String').SetString('On');
16683: CL.AddConstantN('IEDesignModeOff','String').SetString('Off');
16684: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF);
16685: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE);

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16686: end;
16687:
16688:
16689: procedure SIRегистер_UcomboV2(CL: TPSPPascalCompiler);
16690: begin
16691:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16692:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16693:     +'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'
16694:     +'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16695:     +'inationsRepeat, CombinationsRepeatDown )');
16696:   CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16697:   SIRегистер_TComboSet(CL);
16698: end;
16699:
16700: procedure SIRегистер_cyBaseComm(CL: TPSPPascalCompiler);
16701: begin
16702:   TcyCommandType', '( ctDeveloperDefined, ctUserDefined )';
16703:   TStreamContentType', '( scDeveloperDefined, scUserDefined, scString )');
16704:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16705:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16706:     +'mmHandle : THandle; aString : String; userParam : Integer )';
16707:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16708:     +'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16709:   SIRегистер_TcyBaseComm(CL);
16710:   CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16711:   CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16712:   Function ValidatefileMappingName( aName : String ) : String );
16713:   procedure makeCaption(leftSide, Rightside:string; form:TForm);
16714: end;
16715:
16716: procedure SIRегистер_cyDERUtils(CL: TPSPPascalCompiler);
16717: begin
16718:   CL.AddTypeS('DERString', 'String');
16719:   CL.AddTypeS('DERChar', 'Char');
16720:   CL.AddTypeS('TElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16721:     +'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16722:   CL.AddTypeS('TElementsTypes', 'set of TElementsType');
16723:   CL.AddTypeS('DERNString', 'String');
16724:   const DERDecimalSeparator', 'String').SetString( '.' );
16725:   const DERDefaultChars', 'String')('+@/%-'
 $\cdot\!0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ')$ 
16726:   const DERDefaultChars', 'String').SetString( '/%-.0123456789abcdefghijklmnopqrstuvwxyz' );
16727:   CL.AddDelphiFunction('Function isValidWebSiteChar( aChar : Char ) : Boolean');
16728:   Function isValidWebMailChar( aChar : Char ) : Boolean';
16729:   Function isValidwebSite( aStr : String ) : Boolean';
16730:   Function isValidWebMail( aStr : String ) : Boolean';
16731:   Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16732:   Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16733:   Function IsDERChar( aChar : Char ) : Boolean';
16734:   Function IsDERDefaultChar( aChar : Char ) : Boolean';
16735:   Function IsDERMoneyChar( aChar : Char ) : Boolean';
16736:   Function IsDERExceptionChar( aChar : Char ) : Boolean';
16737:   Function IsDERSymbols( aDERString : String ) : Boolean';
16738:   Function StringToDERCharSet( aStr : String ) : DERString';
16739:   Function IsDERNDefaultChar( aChar : Char ) : Boolean';
16740:   Function IsDERNChar( aChar : Char ) : Boolean';
16741:   Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16742:   Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16743:   Function DERExtractWebMail( aDERStr : DERString ) : String';
16744:   Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16745:   Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16746:   Function DERExecute1(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16747:   Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
aElementsType : TElementsType ) : String';
16748:   Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
Boolean; var RsltDERStr : DERString; var RsltElementType : TElementsType );';
16749: end;
16750:
16751: procedure SIRегистер_cyImage(CL: TPSPPascalCompiler);
16752: begin
16753:   pRGBQuadArray', '^TRGBQuadArray // will not work';
16754:   Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer';
16755:   Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean );
16756:   Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean );
16757:   Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean );
16758:   Procedure BitmapSetPixelsContrast( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean );
16759:   Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean );
16760:   Procedure BitmapModifyRGB(Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool;
16761:   Procedure BitmapReplaceColor(Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean);');
16762:   Procedure BitmapReplaceColor1(Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor: Boolean;RefreshBmp:Bool;');
16763:   Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean);');
16764:   Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean );

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16765: Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor )';
16766: Procedure BitmapBlur( SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent : Integer;RefreshBmp:Bool;
16767: Procedure GraphicMirror( Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16768: Procedure GraphicMirror1( Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean );');
16769: Function BitmapCreate( BmpWidth:Integer;BmpHeight:Integer;BkColor:TColor;PixelFormat:TPixelFormat ):TBitmap;
16770: Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word );
16771: Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String );
16772: end;
16773:
16774: procedure SIRegister_WaveUtils(CL: TPSPPascalCompiler);
16775: begin
16776:   TMS2StrFormat', '( msHMS, msHMS, msMS, msSh, msS, msAh,msA )');
16777:   TPCMChannel', '( cMono, cStereo )');
16778:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16779:   TPCMBitsPerSample', '( bs8Bit, bs16Bit )');
16780:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono16b';
16781:     +'6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b';
16782:     +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b';
16783:     +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b';
16784:     +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b';
16785:     +'it48000Hz, Stereo16bit48000Hz )');
16786: PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; '
16787:   +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word; ecbSiz: Word; end');
16788: tWaveFormatEx', 'PWaveFormatEx');
16789: HMMIO', 'Integer');
16790: TWaveDeviceFormats', 'set of TPCMFormat');
16791: TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds'
16792:   +'PlaybackRate, dsPosition, dsAsynchronize, dsDirectSound )');
16793: CL.AddTypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16794: TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16795: TWaveOutOptions', 'set of TWaveOutOption');
16796: TStreamOwnership2', '( soReference, soOwned )');
16797: TWaveStreamState', '( wssReady, wssReading, wssWriting, wssWritingEx )');
16798: // PRawWave', '^TRawWave // will not work');
16799: TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16800: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16801: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16802: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16803: TWaveAudioEvent', 'Procedure ( Sender : TObject)');
16804: TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var pW'
16805:   +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16806: TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf'
16807:   +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD ) : DWORD');
16808: TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu'
16809:   +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean ) : DWORD');
16810: TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const '
16811:   +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean)');
16812: TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer )';
16813: TWaveAudioFilterEvent', 'Procedure ( Sender : TObject; const Buffer:TObject; BufferSize:DWORD )';
16814: GetWaveAudioInfo(mmIO:HMMIO;var pWaveFormat:PWaveFormatEx;var ckRIFF,ckData:TMMCKInfo):Bool;
16815: CreateWaveAudio(mmIO: HMMIO; const pWaveFormat:PWaveFormatEx;var ckRIFF,ckData:TMMCKInfo):Bool;
16816: CloseWaveAudio(mmIO: HMMIO; var ckRIFF, ckData : TMMCKInfo );
16817: GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16818: CreateStreamWaveAudio(Stream: TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,ckData:TMMCKInfo):HMMIO;
16819: OpenStreamWaveAudio( Stream : TStream ) : HMMIO );
16820: CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD ) : DWORD );
16821: GetAudioFormat( FormatTag : Word ) : String );
16822: GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx ) : String );
16823: GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD ) : DWORD );
16824: GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx ) : DWORD );
16825: GetWaveAudioPeakLevel( const Data: TObject;DataSize:DWORD; const pWaveFormat:PWaveFormatEx): Integer );
16826: InvertWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx: Boolean );
16827: SilenceWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx: Boolean );
16828: ChangeWaveAudioVolume( const Data:TObject;DataSize:DWORD;const pWaveFormat:PWaveFormatEx;Percent:Int):Bool;
16829: MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer :
16830: TObject; BufferSize : DWORD ) : Boolean );
16831: ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const
16832: dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD ) : Boolean );
16833: SetPCMFormat(const pWaveFormat: PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec :
16834: TPCMSamplesPerSec; BitsPerSample : TPCMbitsPerSample );
16835: Procedure SetPCMFormatS( const pWaveFormat : PWaveFormatEx; PCMFormat : TPCMFormat );
16836: GetPCMFormat( const pWaveFormat : PWaveFormatEx ) : TPCMFormat );
16837: GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD ) : DWORD );
16838: MS2str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String );
16839: WaitForSyncObject( SyncObject : THandle; Timeout : DWORD ) : DWORD );
16840: //mmioStreamProc( lpmmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD ) : LRESULT );
16841: end;
16842: procedure SIRegister_NamedPipes(CL: TPSPPascalCompiler);
16843: begin
16844:   'DEFAULT_PIPE_BUFFER_SIZE','LongInt').SetInt( 4096 );
16845:   CL.AddConstantN('DEFAULT_PIPE_TIMEOUT','LongInt').SetInt( 5000 );
16846:   'PIPE_NAMING_SCHEME','String').SetString( '\%s\pipe\%s' );
16847:   'WAIT_ERROR','LongWord').SetUInt( DWORD ( $FFFFFF ) );
16848:   'WAIT_OBJECT_1','LongInt').SetInt( WAIT_OBJECT_0 + 1 );
16849:   'STATUS_SUCCESS','LongWord').SetUInt( $00000000 );
16850:   'STATUS_BUFFER_OVERFLOW','LongWord').SetUInt( $80000005 );
16851:   CL.AddTypeS('TPipeDirection', '( pdir_Duplex, pdir_ClientToServer, pdir_ServerToClient )');
16852:   CL.AddTypeS('TPipeType', '( ptyp_BytByte, ptyp_MsgByte, ptyp_MsgMsg )');

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16851: CL.AddTypeS('TOverlappedResult', '( ov_Failed, ov_Pending, ov_MoreData, ov_Complete )');
16852: SIRegister_TNamedPipe(CL);
16853: SIRegister_TSserverPipe(CL);
16854: SIRegister_TClientPipe(CL);
16855: CL.AddDelphiFunction('Function CalculateTimeout( aBasis : DWORD ) : DWORD');
16856: Function HasOverlappedIoCompleted( const ov : OVERLAPPED ) : Boolean';
16857: Function GetOverlappedPipeResult(aHandle:THandle;const ov:OVERLAPPED;var dwBytes:DWORD;bWait:Boolean): OverlappedResult;
16858: Function GetStreamAsText( stm : TStream ) : string';
16859: Procedure SetStreamAsText( const aTxt : string; stm : TStream )';
16860: end;
16861:
16862: procedure SIRegister_DPUtils(CL: TPSPascalCompiler);
16863: begin
16864: // CL.AddTypeS('pRGBTripleArray', '^TRGBTripleArray // will not work');
16865: SIRegister_TThumbData(CL);
16866: 'PIC_BMP','LongInt').SetInt( 0 );
16867: 'PIC_JPG','LongInt').SetInt( 1 );
16868: 'THUMB_WIDTH','LongInt').SetInt( 60 );
16869: 'THUMB_HEIGHT','LongInt').SetInt( 60 );
16870: Function IsEqualFile(Filename:string; Size:Integer; LastWriteTime : TDateTime): Boolean';
16871: Procedure GetFileInfo(Filename : string; var Size : Integer; var LastWriteTime : TDateTime)';
16872: Function ReadBitmap( Filehandle : Integer; Width, Height : Integer ) : TBitmap';
16873: Procedure WriteBitmap( Filehandle : Integer; bmp : TBitmap )';
16874: Function OpenPicture( fn : string; var tp : Integer ) : Integer';
16875: Function ConvertPicture( pi : Integer; tp : Integer ) : TBitmap';
16876: Function LoadPicture( fn : string; var w, h : Integer ) : TBitmap';
16877: Function TurnBitmap( bmp : TBitmap; ang : Integer ) : TBitmap';
16878: Function RotateBitmap( Bitmap : TBitmap; Direction : Integer ) : TBitmap';
16879: Function StretchBitmap( Canvas : TCanvas; re : TRect; bmp : TBitmap ) : TRect';
16880: Function ThumbBitmap( Bitmap : TBitmap; Width, Height : Integer ) : TBitmap';
16881: Procedure ClearFrame( Canvas : TCanvas; Rect : TRect; Width, Height : Integer )';
16882: Procedure FindFiles( path, mask : string; items : TStringList )';
16883: Function LetFileName( s : string ) : string';
16884: Function LetParentPath( path : string ) : string';
16885: Function AddBackSlash( path : string ) : string';
16886: Function CutBackSlash( path : string ) : string';
16887: end;
16888:
16889: procedure SIRegister_CommonTools(CL: TPSPascalCompiler);
16890: begin
16891: //BYTES','LongInt').SetInt( 1 );
16892: 'KBYTES ','LongInt').SetInt( 1024 );
16893: 'DBG_ALIVE','LongWord').SetUInt( Integer ( $11BABE11 ) );
16894: 'DBG_DESTROYING','LongWord').SetUInt( Integer ( $44FADE44 ) );
16895: 'DBG_GONE','LongWord').SetUInt( $99AC1D99 );
16896: 'SHELL_NS_MYCOMPUTER','String').SetString( ':{20D04FE0-3AEA-1069-A2D8-08002B30309D}' );
16897: SIRegister_MakeComServerMethodsPublic(CL);
16898: CL.AddTypeS('TSomeFileInfo', '( fi_DisplayType, fi_Application )');
16899: Function IsFlagSet( dwTestForFlag, dwFlagSet : DWORD ) : Boolean';
16900: Procedure TBSetFlag( const dwThisFlag : DWORD; var dwFlagSet : DWORD; aSet : Boolean )';
16901: Function TBGetTempFolder : string';
16902: Function TBGetTempFile : string';
16903: Function TBGetModuleFilename : string';
16904: Function FormatModuleVersionInfo( const aFilename : string ) : string';
16905: Function GetVersionInfoString( const afile, aEntry : string; aLang : WORD ) : string';
16906: Function TBGetFileSize( aFile : string; aMultipleOf : Integer ) : Integer';
16907: Function FormatAttribString( aAttr : Integer ) : string';
16908: Function GetSomeFileInfo( aFile : string; aWhatInfo : TSomeFileInfo ) : string';
16909: Function ShellRecycle( aWnd : HWND; aFileOrFolder : string ) : Boolean';
16910: Function IsDebuggerPresent : BOOL';
16911: Function TBNotImplemented : HRESULT';
16912: end;
16913:
16914: procedure SIRegister_D2_VistaHelperU(CL: TPSPascalCompiler);
16915: begin
16916: //CL.AddTypeS('OSVERSIONINFOEXA', '_OSVERSIONINFOEXA');
16917: //CL.AddTypeS('TOSVersionInfoExA', '_OSVERSIONINFOEXA');
16918: CL.AddTypeS('TOSVersionInfoEx', 'TOSVersionInfo');
16919: CL.AddTypeS('TDrivesProperty', 'array[1..26] of boolean');
16920: //TDrivesProperty = array['A'..'Z'] of boolean;
16921: Function TBSetSystemTime( DateTime : TDateTime; DOW : word ) : boolean';
16922: Function IsElevated : Boolean';
16923: Procedure CoCreateInstanceAsAdmin(aHWnd:HWND;const aClassID:GUID;const aIID:GUID;out aObj:TObject);
16924: CL.AddTypeS('TPasswordUsage', '( pu_None, pu_Default, pu Defined )');
16925: Function TrimNetResource( UNC : string ) : string';
16926: Procedure GetFreeDrives( var FreeDrives : TDrivesProperty );
16927: Procedure GetMappedDrives( var MappedDrives : TDrivesProperty );
16928: Function MapDrive(UNCPath:string; Drive : char; PasswordUsage : TPasswordUsage; Password : string;
UserUsage : TPasswordUsage; User : string; Comment : string ) : boolean';
16929: Function UnmapDrive( Drive : char; Force : boolean ) : boolean';
16930: Function TBIsWindowsVista : Boolean';
16931: Procedure SetVistaFonts( const AForm : TForm )';
16932: Procedure SetVistaContentFonts( const AFont : TFont )';
16933: Function GetProductType( var sType : String ) : Boolean';
16934: Function lstrcmp( lpString1, lpString2 : PChar ) : Integer';
16935: Function lstrcmpi( lpString1, lpString2 : PChar ) : Integer';
16936: Function lstrcpyn( lpString1, lpString2 : PChar; iMaxLength : Integer ) : PChar';
16937: Function lstrcpy( lpString1, lpString2 : PChar ) : PChar ';

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16938: Function lstrcat( lpString1, lpString2 : PChar ) : PChar');
16939: Function lstrlen( lpString : PChar ) : Integer');
16940: Function GetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD; var ReturnLength : DWORD) : BOOL');
16941: Function SetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD) : BOOL');
16942: end;
16943:
16944: procedure SIRегистre_dwsXPlatform(CL: TPSPascalCompiler);
16945: begin
16946:   'cLineTerminator', 'Char').SetString( #10);
16947:   'cLineTerminators', 'String').SetString( #13#10);
16948:   'INVALID_HANDLE_VALUE', 'LongInt').SetInt( DWORD( - 1));
16949:   SIRегистre_TFixedCriticalSection(CL);
16950:   SIRегистre_TMultiReadSingleWrite(CL);
16951:   CL.AddDelphiFunction('Procedure SetDecimalSeparator( c : Char)');
16952:   Function GetDecimalSeparator : Char');
16953:   TCollectFileProgressEvent', 'Procedure ( const directory : String; var skipScan : Boolean)');
16954:   Procedure Collectfiles(const directory,fileMask:UnicodeString; list:TStrings;
recurseSubdirectories:Boolean; onProgress : TCollectFileProgressEvent)');
16955:   CL.AddTypeS('NativeInt', 'Integer');
16956:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16957:   CL.AddTypeS('NativeUInt', 'Cardinal');
16958:   //CL.AddTypeS('PNativeUInt', '^NativeUInt // will not work');
16959:   //CL.AddTypeS('TBytes', 'array of Byte');
16960:   CL.AddTypeS('RawByteString', 'UnicodeString');
16961:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16962:   //CL.AddTypeS('PUInt64', '^UInt64 // will not work');
16963:   SIRегистre_TPath(CL);
16964:   SIRегистre_TFile(CL);
16965:   SIRегистre_TdwsThread(CL);
16966:   Function GetSystemMilliseconds : Int64';
16967:   Function UTCDateTime : TDateTime');
16968:   Function UnicodeFormat(const fmt:UnicodeString; const args : array of const): UnicodeString';
16969:   Function UnicodeCompareStr( const S1, S2 : UnicodeString) : Integer';
16970:   Function dwsAnsiCompareText( const S1, S2 : UnicodeString) : Integer';
16971:   Function dwsAnsiCompareStr( const S1, S2 : UnicodeString) : Integer');
16972:   Function UnicodeComparePChars( pl : PChar; n1 : Integer; p2 : PChar; n2 : Integer) : Integer');
16973:   Function UnicodeComparePChars1( pl, p2 : PChar; n : Integer) : Integer');
16974:   Function UnicodeLowerCase( const s : UnicodeString) : UnicodeString');
16975:   Function UnicodeUpperCase( const s : UnicodeString) : UnicodeString');
16976:   Function ASCIICompareText( const s1, s2 : UnicodeString) : Integer');
16977:   Function ASCIIISameText( const s1, s2 : UnicodeString) : Boolean');
16978:   Function InterlockedIncrement( var val : Integer) : Integer');
16979:   Function InterlockedDecrement( var val : Integer) : Integer');
16980:   Procedure FastInterlockedIncrement( var val : Integer)');
16981:   Procedure FastInterlockedDecrement( var val : Integer)');
16982:   Function InterlockedExchangePointer( var target : __Pointer; val : __Pointer) : __Pointer');
16983:   Procedure SetThreadName( const threadName : Char; threadID : Cardinal)');
16984:   Procedure dwsOutputDebugString( const msg : UnicodeString)');
16985:   Procedure WriteToOSEventLog(const logName,logCaption,logDetails:UnicodeString;const logRawData:Str);
16986:   Function TryTextToFloat(const s:PChar;var value:Extended;const formatSettings:TFormatSettings):Bool;
16987:   Procedure VarCopy( out dest : Variant; const src : Variant)');
16988:   Function VarToUnicodeStr( const v : Variant) : UnicodeString');
16989:   Function LoadTextFromBuffer( const buf : TBytes) : UnicodeString');
16990:   Function LoadTextFromStream( aStream : TStream) : UnicodeString');
16991:   Function LoadTextFromFile( const fileName : UnicodeString) : UnicodeString');
16992:   Procedure SaveTextToUTF8File( const fileName, text : UnicodeString)');
16993:   Function OpenFileForSequentialReadonly( const fileName : UnicodeString) : THandle');
16994:   Function OpenFileForSequentialWriteonly( const fileName : UnicodeString) : THandle');
16995:   Procedure CloseFileHandle( hFile : THandle)');
16996:   Function FileCopy(const existing, new : UnicodeString; failIfExists : Boolean):Boolean';
16997:   Function FileMove( const existing, new : UnicodeString) : Boolean');
16998:   Function dwsfileDelete( const fileName : String) : Boolean');
16999:   Function FileRename( const oldName, newName : String) : Boolean');
17000:   Function dwsfileSize( const name : String) : Int64';
17001:   Function dwsfileDateTime( const name : String) : TDateTime');
17002:   Function DirectSet8087CW( newValue : Word) : Word');
17003:   Function DirectSetMXCSR( newValue : Word) : Word');
17004:   Function TtoObject( const T: byte) : TObject');
17005:   Function TtoPointer( const T: byte) : __Pointer');
17006:   Procedure GetMemForT(var T: byte; Size : integer)');
17007:   Function FindDelimiter( const Delimiters, S : string; StartIdx : Integer) : Integer');
17008: end;
17009:
17010: procedure SIRегистre_AdSocket(CL: TPSPascalCompiler);
17011: begin
17012:   'IPStrSize', 'LongInt').SetInt( 15);
17013:   'CM_APDSOCKETMESSAGE', 'LongWord').SetUInt( WM_USER + $0711);
17014:   'CM_APDSOCKETQUIT', 'LongWord').SetUInt( WM_USER + $0712);
17015:   'ADWSBASE', 'LongInt').SetInt( 9000);
17016:   CL.AddTypeS('TCMAPDSocketMessage', 'record Msg : Cardinal; Socket : TSocket; '
17017:     + 'SelectEvent : Word; SelectError : Word; Result : Longint; end');
17018:   SIRегистre_EApdSocketException(CL);
17019:   'WsMode', '( wsClient, wsServer )');
17020:   'TWsNotifyEvent', 'Procedure ( Sender : TObject; Socket : TSocket)');
17021:   'TWsSocketErrorEvent', 'Procedure ( Sender : TObject; Socket : TSocket; ErrorCode : Integer)');
17022:   SIRегистre_TApdSocket(CL);
17023: end;

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

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

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17196: Function CopyFileRedir( const DisableFsRedir: Boolean; const ExistingFilename, NewFilename : String; const
17197: FailIfExists : BOOL' );
17198: Function DeleteFileRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL' );
17199: Function DirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean' );
17200: Function FileOrDirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean' );
17201: Function FindFirstFileRedir( const DisableFsRedir : Boolean; const Filename : String; var FindData : TWin32FindData ) : THandle' );
17202: Function GetFileAttributesRedir( const DisableFsRedir : Boolean; const Filename : String ) : DWORD' );
17203: Function GetShortNameRedir( const DisableFsRedir : Boolean; const Filename : String ) : String' );
17204: Function GetVersionNumbersRedir( const DisableFsRedir: Boolean; const Filename: String; var VersionNumbers : TFileVersionNumbers ) : Boolean' );
17205: Function IsDirectoryAndNotReparsePointRedir( const DisableFsRedir: Boolean; const Name: String ): Bool;
17206: Function MoveFileRedir( const DisableFsRedir: Boolean; const ExistingFilename, NewFilename: String ): Boolean;
17207: Function NewFileExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean' );
17208: Function RemoveDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL' );
17209: Function SetFileAttributesRedir( const DisableFsRedir: Boolean; const Filename: String; const Attrib:DWORD ): Boolean;
17210: Function SetNTFSCompressionRedir( const DisableFsRedir: Boolean; const FileOrDir: String; Compress: Boolean );
17211: SIRegister_TFileRedir(CL);
17212: SIRegister_TTextfileReaderRedir(CL);
17213: SIRegister_TTextfileWriterRedir(CL);
17214: end;
17215:
17216: procedure SIRegister_Int64Em(CL: TPSPascalCompiler);
17217: begin
17218: //CL.AddTypeS('LongWord', 'Cardinal');
17219: CL.AddTypeS('Integer64', 'record Lo : LongWord; Hi : LongWord; end');
17220: Function Compare64( const N1, N2 : Integer64 ) : Integer' );
17221: Procedure Dec64( var X : Integer64; N : LongWord );
17222: Procedure Dec6464( var X : Integer64; const N : Integer64 );
17223: Function Div64( var X : Integer64; const Divisor : LongWord ) : LongWord' );
17224: Function Inc64( var X : Integer64; N : LongWord ) : Boolean' );
17225: Function Inc6464( var X : Integer64; const N : Integer64 ) : Boolean' );
17226: Function Integer64ToStr( X : Integer64 ) : String' );
17227: Function Mod64( const X : Integer64; const Divisor : LongWord ) : LongWord' );
17228: Function Mul64( var X : Integer64; N : LongWord ) : Boolean' );
17229: Procedure Multiply32x32to64( N1, N2 : LongWord; var X : Integer64 );
17230: Procedure Shr64( var X : Integer64; Count : LongWord );
17231: Function StrToInteger64( const S : String; var X : Integer64 ) : Boolean' );
17232: end;
17233:
17234: procedure SIRegister_InstFunc(CL: TPSPascalCompiler);
17235: begin
17236: //CL.AddTypeS('PSimpleStringListArray', '^TSimpleStringListArray // will not work');
17237: SIRegister_TSsimpleStringList(CL);
17238: CL.AddTypeS('TExecWait', '( ewNoWait, ewWaitUntilTerminated, ewWaitUntilIdle )');
17239: CL.AddTypeS('TDetermineDefaultLanguageResult', '( ddNoMatch, ddMatch, ddMatchLangParameter )');
17240: CL.AddTypeS('TMD5Digest', 'array[0..15] of Byte');
17241: CL.AddTypeS('TSHA1Digest', 'array[0..19] of Byte');
17242: // TMD5Digest = array[0..15] of Byte;
17243: // TSHA1Digest = array[0..19] of Byte;
17244: Function CheckForMutexes( Mutexes : String ) : Boolean' );
17245: Function CreateTempDir : String' );
17246: Function DecrementSharedCount( const RegView : TRegView; const Filename : String ) : Boolean' );
17247: Procedure DelayDeleteFile( const DisableFsRedir : Boolean; const Filename : String; const MaxTries, FirstRetryDelayMS, SubsequentRetryDelayMS : Integer );
17248: //Function DelTree( const DisableFsRedir : Boolean; const Path : String; const IsDir, DeleteFiles, DeleteSubdirsAlso, BreakOnError : Boolean; const DeleteDirProc : TDeleteDirProc; const DeleteFileProc : TDeleteFileProc; const Param : Pointer );
17249: //Function DetermineDefaultLanguage( const GetLanguageEntryProc : TGetLanguageEntryProc; const Method : TSetupLanguageDetectionMethod; const LangParameter : String; var ResultIndex : Integer ) : TDetermineDefaultLanguageResult;
17250: //Procedure EnumFileReplaceOperationsFilenames(const EnumFunc:TEnumFROFilenamesProc;Param:Pointer);
17251: Function GenerateNonRandomUniqueFilename( Path : String; var Filename : String ) : Boolean' );
17252: Function GenerateUniqueName( const DisableFsRedir: Boolean; Path: String; const Extension: String ): String;
17253: Function GetComputerNameString : String' );
17254: Function GetFileDateTime( const DisableFsRedir: Boolean; const Filename: String; var DateTime: TFileTime ): Boolean;
17255: Function GetMD5OfFile( const DisableFsRedir : Boolean; const Filename : String ) : TMD5Digest' );
17256: Function GetMD5OfFileA( const S : AnsiString ) : TMD5Digest' );
17257: // Function GetMD5OfUnicodeString( const S : UnicodeString ) : TMD5Digest';
17258: Function GetSHA1OfFile( const DisableFsRedir: Boolean; const Filename: String ): TSHA1Digest' );
17259: Function GetSHA1OfFileA( const S : AnsiString ) : TSHA1Digest' );
17260: // Function GetSHA1OfUnicodeString( const S : UnicodeString ) : TSHA1Digest';
17261: Function GetRegRootKeyName( const RootKey : HKEY ) : String' );
17262: Function GetSpaceOnDisk( const DisableFsRedir: Boolean; const DriveRoot: String; var FreeBytes, TotBytes: Int64 ) : Boolean;
17263: Function GetSpaceOnNearestMountPoint( const DisableFsRedir: Boolean; const StartDir: String; var FreeBytes, TotalBytes: Integer64 ) : Boolean;
17264: Function GetUserNamesString : String' );
17265: Procedure IncrementSharedCount( const RegView: TRegView; const Filename: String; const AlreadyExisted: Boolean );
17266: //Function InstExec( const DisableFsRedir : Boolean; const Filename, Params : String; WorkingDir : String; const Wait:TExecWait; const ShowCmd: Integer; const ProcessMessagesProc: TProcedure; var ResultCode: Integer );
17267: // Function InstShellExec( const Verb, Filename, Params : String; WorkingDir : String; const Wait : TExecWait; const ShowCmd: Integer; const ProcessMessagesProc: TProcedure; var ResultCode: Integer ) : Boolean;
17268: Procedure InternalError( const Id : String );
17269: Procedure InternalErrorFmt( const S : String; const Args : array of const );
17270: Function IsDirEmpty( const DisableFsRedir : Boolean; const Dir : String ) : Boolean' );

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17271: Function IsProtectedSystemFile( const DisableFsRedir:Boolean; const Filename:String ) : Boolean';
17272: Function MakePendingFileRenameOperationsChecksum : TMD5Digest';
17273: Function ModifyPifFile( const Filename : String; const CloseOnExit : Boolean ) : Boolean';
17274: Procedure RaiseFunctionFailedError( const FunctionName : String );
17275: Procedure RaiseOleError( const FunctionName : String; const ResultCode : HRESULT );
17276: Procedure RefreshEnvironment';
17277: Function ReplaceSystemDirWithSysWow64( const Path : String ) : String';
17278: Function ReplaceSystemDirWithSysNative( Path : String; const IsWin64 : Boolean ) : String';
17279: Procedure UnregisterFont( const FontName, FontFilename : String );
17280: Function RestartComputer : Boolean';
17281: Procedure RestartReplace( const DisableFsRedir : Boolean; TempFile, DestFile : String );
17282: Procedure SplitNewParamStr( const Index : Integer; var AName, AValue : String );
17283: Procedure Win32ErrorMsg( const FunctionName : String );
17284: Procedure Win32ErrorMsgEx( const FunctionName : String; const ErrorCode : DWORD );
17285: Function inForceDirectories( const DisableFsRedir:Boolean; Dir : String ) : Boolean';
17286: //from Func2
17287: //Function inCreateShellLink( const Filename, Description, ShortcutTo, Parameters, WorkingDir : String;
17288: //Iconfilename : String; const IconIndex, ShowCmd : Integer; const HotKey : Word; FolderShortcut : Boolean;
17289: //+'const AppUserID: String; const ExcludeFromShowInNewInstall, PreventPinning: Bool): String';
17290: Procedure RegisterTypeLibrary( const Filename : String );
17291: //Procedure UnregisterTypeLibrary( const Filename : String );
17292: function getVersionInfoEx3: TOSVersionInfoEx';
17293: Function GetVersionEx3(out verinfo: TOSVersionInfoEx): boolean';
17294: procedure InitOle();
17295: Function ExpandConst( const S : String ) : String';
17296: Function ExpandConstEx( const S : String; const CustomConsts : array of String ) : String';
17297: Function ExpandConstEx2(const S:Str;const CustConsts:array of Str;const DoExpandIndividualConst:Bool):Str;
17298: Function ExpandConstIfPrefixed( const S : String ) : String';
17299: Procedure LogWindowsVersion';
17300: Function EvalCheck( const Expression : String ) : Boolean';
17301: end;
17302:
17303: procedure SIRegister_unitResourceDetails(CL: TPSPPascalCompiler);
17304: begin
17305: CL.AddClassN(CL.FindClass('TObject'), 'TResourceDetails');
17306: //CL.AddTypes('TResourceDetailsClass', 'class of TResourceDetails');
17307: SIRegister_TResourceModule(CL);
17308: SIRegister_TResourceDetails(CL);
17309: SIRegister_TAnsiResourceDetails(CL);
17310: SIRegister_TUnicodeResourceDetails(CL);
17311: Procedure RegisterResourceDetails( resourceClass : TResourceDetailsClass );
17312: Procedure UnRegisterResourceDetails( resourceClass : TResourceDetailsClass );
17313: Function ResourceWideCharToStr( var wstr : PWideChar; codePage : Integer ) : string';
17314: Procedure ResourceStrToWideChar( const s : string; var p : PWideChar; codePage : Integer );
17315: Function ResourceNameToInt( const s : string ) : Integer';
17316: Function CompareDetails( p1, p2 : TObject(Pointer) ) : Integer';
17317: end;
17318:
17319:
17320: procedure SIRegister_TSsimpleComPort(CL: TPSPPascalCompiler);
17321: begin
17322: //with RegClassS(CL,'TObject', 'TSimpleComPort') do
17323: with CL.AddClassN(CL.FindClass('TObject'), 'TSimpleComPort') do begin
17324: RegisterMethod('Constructor Create');
17325: RegisterMethod('Procedure Free');
17326: RegisterMethod('Procedure Open( PortNumber : Integer; const Parameters : String)');
17327: RegisterMethod('Procedure WriteString( const S : String)');
17328: RegisterMethod('Procedure ReadString( var S : String)');
17329: end;
17330: Ex := SimpleComPort:= TSsimpleComPort.Create;
17331: SimpleComPort.Open(1, 'baud=115200 parity=N data=8 stop=1');
17332: SimpleComPort.WriteString(AsciiChar);
17333: end;
17334:
17335:
17336: procedure SIRegister_Console(CL: TPSPPascalCompiler);
17337: begin
17338: CL.AddConstantN('White','LongInt').SetInt( 15 );
17339: // CL.AddConstantN('Blink','LongInt').SetInt( 128 );
17340: ('conBW40','LongInt').SetInt( 0 );
17341: ('conCO40','LongInt').SetInt( 1 );
17342: ('conBW80','LongInt').SetInt( 2 );
17343: ('conCO80','LongInt').SetInt( 3 );
17344: ('conMono','LongInt').SetInt( 7 );
17345: CL.AddConstantN('conFont8x8','LongInt').SetInt( 256 );
17346: //CL.AddConstantN('C40','','').SetString( C040 );
17347: //CL.AddConstantN('C80','','').SetString( C080 );
17348: Function conReadKey : Char';
17349: Function conKeyPressed : Boolean';
17350: Procedure conGotoXY( X, Y : Smallint );
17351: Function conWhereX : Integer';
17352: Function conWhereY : Integer';
17353: Procedure conTextColor( Color : Byte );
17354: Function conTextColor1 : Byte';
17355: Procedure conTextBackground( Color : Byte );
17356: Function conTextBackground1 : Byte';
17357: Procedure conTextMode( Mode : Word );
17358: Procedure conLowVideo );

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17359: Procedure conHighVideo');
17360: Procedure conNormVideo');
17361: Procedure conClrScr');
17362: Procedure conClrEol');
17363: Procedure conInsLine');
17364: Procedure conDelLine');
17365: Procedure conWindow( Left, Top, Right, Bottom : Integer)');
17366: Function conScreenWidth : Smallint');
17367: Function conScreenHeight : Smallint');
17368: Function conBufferWidth : Smallint');
17369: Function conBufferHeight : Smallint');
17370: procedure InitScreenMode;');
17371: end;
17372:
17373: (*-----*)
17374: procedure SIRegister_testutils(CL: TPSPPascalCompiler);
17375: begin
17376:   SIRegister_TNoRefCountObject(CL);
17377:   Procedure FreeObjects( List : TFPLList );
17378:   Procedure GetMethodList( AObject : TObject; AList : TStrings );
17379:   Procedure GetMethodList1( AClass : TClass; AList : TStrings );
17380: end;
17381:
17382: procedure SIRegister_ToolsUnit(CL: TPSPPascalCompiler);
17383: begin
17384:   'MaxDataSet','LongInt').SetInt( 35 );
17385:   //CL.AddTypeS('TDBConnectorClass', 'class of TDBConnector');
17386:   SIRegister_TDBConnector(CL);
17387:   SIRegister_TDBBasicsTestSetup(CL);
17388:   SIRegister_TTestDataLink(CL);
17389:   'testValuesCount','LongInt').SetInt( 25 );
17390:   Procedure InitialiseDBConnector';
17391:   Procedure FreeDBConnector';
17392:   Function DateTimeToTimeString( d : tdatetime ) : string';
17393:   Function TStringToDateTIme( d : String ) : TDateTIme';
17394: end;
17395:
17396: procedure SIRegister_fpcunit(CL: TPSPPascalCompiler);
17397: begin
17398:   SIRegister_EAssertionFailedError(CL);
17399:   CL.AddTypeS('TTestStep', '( stSetUp, stRunTest, stTearDown, stNothing )');
17400:   CL.AddTypeS('TRunMethod', 'Procedure');
17401:   CL.AddClassN(CL.FindClass('TOBJECT'),'TTestResult');
17402:   SIRegister_TTest(CL);
17403:   SIRegister_TAssert(CL);
17404:   SIRegister_TTestFailure(CL);
17405:   SIRegister_ITestlistener(CL);
17406:   SIRegister_TTestCase(CL);
17407:   //CL.AddTypeS('TTestCaseClass', 'class of TTestCase');
17408:   SIRegister_TTestSuite(CL);
17409:   SIRegister_TTestResult(CL);
17410:   Function ComparisonMsg( const aExpected : string; const aActual : string ) : string';
17411: end;
17412:
17413: procedure SIRegister_cTCPBuffer(CL: TPSPPascalCompiler);
17414: begin
17415:   TOBJECT', 'ETCPBuffer');
17416:   TTCPBuffer', 'record Ptr : TObject; Size : Integer; Max : Integer';
17417:     +r; Head : Integer; Used : Integer; end');
17418:   'ETHERNET_MTU_100MBIT','LongInt').SetInt( 1500 );
17419:   'ETHERNET_MTU_1GBIT','LongInt').SetInt( 9000 );
17420:   'TCP_BUFFER_DEFAULTMAXSIZE','LongInt').SetInt( ETHERNET_MTU_1GBT * 4 );
17421:   'TCP_BUFFER_DEFAULTBUFSIZE','LongInt').SetInt( ETHERNET_MTU_100MBIT * 4 );
17422:   Procedure TCPBufferInitialise(var TCPBuf:TTCPBuffer;const TCPBufMaxSize:Int;const TCPBufSize:Int);
17423:   Procedure TCPBufferFinalise( var TCPBuf : TTCPBuffer );
17424:   Procedure TCPBufferPack( var TCPBuf : TTCPBuffer );
17425:   Procedure TCPBufferResize( var TCPBuf : TTCPBuffer; const TCPBufSize : Integer );
17426:   Procedure TCPBufferExpand( var TCPBuf : TTCPBuffer; const Size : Integer );
17427:   Procedure TCPBufferShrink( var TCPBuf : TTCPBuffer );
17428:   Function TCPBufferAddPtr( var TCPBuf : TTCPBuffer; const Size : Integer ) : Pointer';
17429:   Procedure TCPBufferAddBuf( var TCPBuf : TTCPBuffer; const Buf : string; const Size : Integer );
17430:   Function TCPBufferPeekPtr( const TCPBuf : TTCPBuffer; var BufPtr : Pointer ) : Integer';
17431:   Function TCPBufferPeek( var TCPBuf : TTCPBuffer; var Buf : string; const Size:Integer ) : Integer';
17432:   Function TCPBufferRemove( var TCPBuf : TTCPBuffer; var Buf : string; const Size:Integer ) : Integer';
17433:   Procedure TCPBufferClear( var TCPBuf : TTCPBuffer );
17434:   Function TCPBufferDiscard( var TCPBuf : TTCPBuffer; const Size : Integer ) : Integer';
17435:   Function TCPBufferUsed( const TCPBuf : TTCPBuffer ) : Integer';
17436:   Function TCPBufferEmpty( const TCPBuf : TTCPBuffer ) : Boolean';
17437:   Function TCPBufferAvailable( const TCPBuf : TTCPBuffer ) : Integer';
17438:   Function TCPBufferPtr( const TCPBuf : TTCPBuffer ) : Pointer';
17439:   Procedure TCPBufferSetMaxSize( var TCPBuf : TTCPBuffer; const MaxSize : Integer );
17440: end;
17441:
17442: procedure SIRegister_Glut(CL: TPSPPascalCompiler);
17443: begin
17444:   //CL.AddTypeS('PInteger', '^Integer // will not work');
17445:   //CL.AddTypeS('PPChar', '^PChar // will not work');
17446:   CL.AddConstantN('GLUT_API_VERSION','LongInt').SetInt( 3 );
17447:   CL.AddConstantN('GLUT_XLIB_IMPLEMENTATION','LongInt').SetInt( 12 );

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17448: CL.AddConstantN('GLUT_RGB','LongInt').SetInt( 0 );
17449: CL.AddConstantN('GLUT_GAME_MODE_REFRESH_RATE','LongInt').SetInt( 5 );
17450: CL.AddConstantN('GLUT_GAME_MODE_DISPLAY_CHANGED','LongInt').SetInt( 6 );
17451: Procedure LoadGlut( const dll : String );
17452: Procedure FreeGlut();
17453: end;
17454:
17455: procedure SIRegister_LEDBitmaps(CL: TPSPascalCompiler);
17456: begin
17457:   CL.AddTypeS('TLEDColor', '( ledcGreen, ledcRed, ledcGray )');
17458:   Function GetLEDBitmapHandle( Color : TLEDColor; State : Boolean) : THandle';
17459: end;
17460:
17461: procedure SIRegister_SwitchLed(CL: TPSPascalCompiler);
17462: begin
17463:   TLedColor', '( Aqua, Pink, Purple, Red, Yellow, Green, Blue, Orange, Black )';
17464:   TTledState', '( LedOn, LedOff, LedDisabled )';
17465:   SIRegister_TSwitchLed(CL);
17466: //CL.AddDelphiFunction('Procedure Register');
17467: end;
17468:
17469: procedure SIRegister_FileClass(CL: TPSPascalCompiler);
17470: begin
17471:   CL.AddTypeS('TFileCreateDisposition', '( fdCreateAlways, fdCreateNew, fdOpenE'
17472:     + 'xisting, fdOpenAlways, fdTruncateExisting )');
17473:   CL.AddTypeS('TFileAccess', '( faRead, faWrite, faReadWrite )');
17474:   CL.AddTypeS('TFileSharing', '( fsNone, fsRead, fsWrite, fsReadWrite )');
17475:   SIRegister_TCustomFile(CL);
17476:   SIRegister_TIFILE(CL);
17477:   SIRegister_TMemoryFile(CL);
17478:   SIRegister_TTextFileReader(CL);
17479:   SIRegister_TTextFileWriter(CL);
17480:   SIRegister_TFileMapping(CL);
17481:   SIRegister_EFileError(CL);
17482: end;
17483:
17484: procedure SIRegister_FileUtilsClass(CL: TPSPascalCompiler);
17485: begin
17486:   CL.AddTypeS('TFileAttributes', '( ffaReadOnly, ffaHidden, ffaSysFile, ffaVolumeID'
17487:     + ', ffaDirectory, ffaArchive, ffaAnyFile )');
17488:   CL.AddTypeS('TAttributeSet', 'set of TFileAttributes');
17489:   SIRegister_TFileSearch(CL);
17490: end;
17491:
17492: procedure SIRegister_uColorFunctions(CL: TPSPascalCompiler);
17493: begin
17494:   TRGBTYPE', 'record RedHex : string; GreenHex : string; BlueHex :'
17495:     + ' string; Red : integer; Green : integer; Blue : integer; end');
17496:   Function FadeColor( aColor : Longint; aFade : integer) : Tcolor';
17497:   Function CountColor( aColor : Tcolor; CompareColor : Tcolor; AdjustVale:integer):Tcolor;
17498: end;
17499:
17500: procedure SIRegister_uSettings(CL: TPSPascalCompiler);
17501: begin
17502:   Procedure SaveOscSettings());
17503:   Procedure GetOscSettings();
17504: end;
17505:
17506: procedure SIRegister_cyDebug(CL: TPSPascalCompiler);
17507: begin
17508:   TProcProcessEvent', 'Procedure ( Sender : TObject; Index : Integer)');
17509:   RecProcess', 'record Name : ShortString; DurationMs : Cardinal;';
17510:   FirstDurationMs : Cardinal; LastDurationMs : Cardinal; MinDurationMs : Int'
17511:   64; MaxDurationMs : Cardinal; MarksCount : Integer; ArrayMarks : array of '
17512:   Cardinal; EnterCount : Integer; ExitCount : Integer; end');
17513:   SIRegister_TcyDebug(CL);
17514: end;
17515:
17516: (*-----*)
17517: procedure SIRegister_cyCopyFiles(CL: TPSPascalCompiler);
17518: begin
17519:   TCopyFileResult', '( cfCreate, cfOverwrite, cfNoNeed, cfForceDirectoryError, cfCopyError )';
17520:   TCopyFileExists', '( feDoNothing, feCopy, feCopyIfModified, feCopyIfMoreRecent )';
17521:   TCopyFileNotExists', '( fnDoNothing, fnCopy, fnCopyForceDir )';
17522:   SIRegister_TDestinationOptions(CL);
17523:   TProcCustomCopyFileEvent', 'Procedure ( Sender : TObject; var CopyFileResult : TCopyFileResult)';
17524:   TProcOnCopyFileProgressEvent', 'Procedure(Sender:TObject;FileBytes,
TransferredBytes:int64;PercentDone:Int64)';
17525:   TProcOnCustomSetFileDestination', 'Procedure ( Sender : TObject; var FileName : String)';
17526:   SIRegister_TcyCopyFiles(CL);
17527:   Function cyCopyFile(FromFile,ToFile: String; FileExists:TCopyFileExists;FileNotExists:TCopyFileNotExists;
ResetAttr:boolean): TCopyFileResult';
17528:   Function cyCopyFileEx( Fromfile,ToFile: String;FileExists: TCopyFileExists;FileNotExists:TCopyFileNotExists
TCopyFileNotExists; ResetAttr:boolean; aProgressBar:TProgressBar): TCopyFileResult';
17529:   Function cyCopyFilesEx(SourcePath, DestinationPath, IncludeFilters, ExcludeFilters : String; ArchiveFiles,
ReadOnlyFiles, HiddenFiles, SystemFiles : TcyFileAttributeMode; FileExists : TCopyFileExists;
+ FileNotExists: TCopyFileNotExists; SubFolders, ResetAttributes:Boolean) : Integer';
17530:
17531: end;
17532:

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17533: procedure SIRegister_cySearchFiles(CL: TPSPascalCompiler);
17534: begin
17535:   CL.AddTypeS('TcyFileAttributeMode', '( faYes, faNo, faBoth )');
17536:   SIRegister_TcyFileAttributes(CL);
17537:   SIRegister_TSearchRecInstance(CL);
17538:   TOption', '( soOnlyDirs, soignoreAttributes, soIgnoreMaskInclude, soIgnoreMaskExclude )');
17539:   TOptions', 'set of TOption');
17540:   TSearchState', '( ssIdle, ssPaused, ssSearch, ssPausing, ssResuming, ssAborting )');
17541:   TProcOnValidateFileEvent Procedure(Sender:TObject;ValidMaskIncl,ValidMaskExcl,ValidAttribs:bool;var
Accept:boolean;
17542:   TProcOnValidateDirectoryEvent','Procedure(Sender:TObject;Directory:String;var Accept:boolean)');
17543:   SIRegister_TcyCustomSearchFiles(CL);
17544:   SIRegister_TcySearchFiles(CL);
17545:   Function FileNameRespondToMask( aFileName : String; aMask : String ) : Boolean');
17546:   Function IscyFolder( aSRec : TSearchrec ) : Boolean');
17547: end;
17548:
17549: procedure SIRegister_jcontrolutils(CL: TPSPascalCompiler);
17550: begin
17551:   Function jCountChar( const s : string; ch : char ) : integer');
17552:   Procedure jSplit( const Delimiter : char; Input : string; Strings : TStrings );
17553:   Function jNormalizeDate(const Value: string; theValue: TDateTime;const theFormat:string): string');
17554:   Function jNormalizeTime(const Value: string; theValue: TTime;const theFormat : string) : string');
17555:   Function jNormalizeDateTime(const Value:stringtheValue:TDateTime;const theFormat:string):string');
17556:   Function jNormalizeDateSeparator( const s : string ) : string');
17557:   Function jiIsValidDateString( const Value : string ) : boolean');
17558:   Function jiIsValidTimeString( const Value : string ) : boolean');
17559:   Function jiIsValidDateTimeString( const Value : string ) : boolean');
17560: end;
17561:
17562: procedure SIRegister_kcMapView(CL: TPSPascalCompiler);
17563: begin
17564:   CL.AddClassN(CL.FindClass('TOBJECT'),'TMapView');
17565:   CL.AddTypeS('TMapSource', '( msNone, msGoogleNormal, msGoogleSatellite, msGoo' +
'gleHybrid, msGooglePhysical, msGooglePhysicalHybrid, msOpenStreetMapMapnik' +
'+, msOpenStreetMapOsmarender, msOpenCycleMap, msVirtualEarthBing, msVirtual' +
'+EarthRoad, msVirtualEarthAerial, msVirtualEarthHybrid, msYahooNormal, msYa' +
'+hooSatellite, msYahooHybrid, msOviNormal, msOviSatellite, msOviHybrid, msOviPhysical )');
17566:   TArea', 'record top : Int64; left : Int64; bottom : Int64; right: Int64; end');
17567:   TRealArea', 'record top : Extended; left : Extended; bottom : Extended; right : Extended; end');
17568:   TIntPoint', 'record X : Int64; Y : Int64; end');
17569:   TkRealPoint', 'record X : Extended; Y : Extended; end');
17570:   TOnBeforeDownloadEvent', 'Procedure ( Url : string; str : TStream; var CanHandle : Boolean)');
17571:   TOnAfterDownloadEvent', 'Procedure ( Url : string; str : TStream)');
17572:   SIRegister_TCustomDownloadEngine(CL);
17573:   SIRegister_TCustomGeolocationEngine(CL);
17574:   SIRegister_TMapView(CL);
17575: end;
17576:
17577: procedure SIRegister_cparserutils(CL: TPSPascalCompiler);
17578: begin
17579:   (*CL.AddDelphiFunction('Function isFunc( name : TNamePart ) : Boolean');*)
17580:   CL.AddDelphiFunction('Function isUnnamedFunc( name : TNamepart ) : Boolean');
17581:   Function isPtrToFunc( name : TNamePart ) : Boolean');
17582:   Function isFuncRetFuncPtr( name : TNamePart ) : Boolean');
17583:   Function isPtrToFuncRetFuncPtr( name : TNamePart ) : Boolean');
17584:   Function GetFuncParam( name : TNamePart ) : TNamePart');
17585:   Function isArray( name : TNamePart ) : Boolean');
17586:   Function GetArrayPart( name : TNamePart ) : TNamePart');
17587:   Function GetIdFromPart( name : TNamePart ) : AnsiString');
17588:   Function GetIdPart( name : TNamePart ) : TNamePart');
17589:   Function isNamePartPtrToFunc( part : TNamePart ) : Boolean');
17590:   Function isAnyBlock( part : TNamePart ) : Boolean');*
17591:   CL.AddTypeS('TLineInfo', 'record linestart : Integer; lineend : Integer; end');
17592:   SIRegister_TLineBreaker(CL);
17593:   CL.AddTypeS('TNameKind', 'Integer');
17594:   CL.AddClassN(CL.FindClass('TOBJECT'),'TNamePart');
17595:   //CL.AddTypeS('TFuncParam', 'record prmtype : TEntity; name : TNamePart; end');
17596:   Function SphericalMod( X : Extended ) : Extended');
17597:   Function cSign( Value : Extended ) : Extended');
17598:   Function LimitFloat( const eValue, eMin, eMax : Extended ) : Extended');
17599:   Function AngleToRadians( iAngle : Extended ) : Extended');
17600:   Function RadiansToAngle( eRad : Extended ) : Extended');
17601:   Function Cross180( iLong : Double ) : Boolean');
17602:   Function Mod180( Value : integer ) : Integer');
17603:   Function Mod180Float( Value : Extended ) : Extended');
17604:   Function MulDivFloat( a, b, d : Extended ) : Extended');
17605:   Function LongDiff( ilong1, ilong2 : Double ) : Double');
17606:   Procedure Bmp_AssignFromPersistent( Source : TPersistent; Bmp : TbitMap );
17607:   Function Bmp_CreateFromPersistent( Source : TPersistent ) : TbitMap');
17608:   Function FixFilePath( const Inpath, CheckPath : string ) : string');
17609:   Function UnFixFilePath( const Inpath, CheckPath : string ) : string');
17610:   Procedure FillStringList( sl : TStringList; const aText : string );
17611: end;
17612:
17613: procedure SIRegister_LedNumber(CL: TPSPascalCompiler);
17614: begin
17615:   TLedSegmentSize', 'Integer');
17616:   TLedNumberBorderStyle', '( lnbNone, lnbSingle, lnbSunken, lnbRaised )');

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17621:   SIRegister_TCustomLEDNumber(CL);
17622:   SIRegister_TLEDNumber(CL);
17623: end;
17624:
17625: procedure SIRegister_StStrL(CL: TPSPPascalCompiler);
17626: begin
17627:   CL.AddTypeS('LStrRec', 'record AllocSize : Longint; RefCount : Longint; Length : Longint; end');
17628:   CL.AddTypes('AnsiChar', 'Char');
17629:   CL.AddTypeS('BTable', 'array[0..255] of Byte'); //!!!
17630:   CL.AddDelphiFunction('Function HexBL( B : Byte) : AnsiString');
17631:   Function HexWL( W : Word) : AnsiString';
17632:   Function HexLL( L : LongInt) : AnsiString';
17633:   Function HexPTRL( P : __Pointer) : AnsiString';
17634:   Function BinaryBL( B : Byte) : AnsiString';
17635:   Function BinaryWL( W : Word) : AnsiString';
17636:   Function BinaryLL( L : LongInt) : AnsiString';
17637:   Function OctalBL( B : Byte) : AnsiString';
17638:   Function OctalWL( W : Word) : AnsiString';
17639:   Function OctalLL( L : LongInt) : AnsiString';
17640:   Function Str2Int16L( const S : AnsiString; var I : SmallInt) : Boolean';
17641:   Function Str2WordL( const S : AnsiString; var I : Word) : Boolean';
17642:   Function Str2LongL( const S : AnsiString; var I : LongInt) : Boolean';
17643:   Function Str2RealL( const S : AnsiString; var R : Double) : Boolean';
17644:   Function Str2RealL( const S : AnsiString; var R : Real) : Boolean';
17645:   Function Str2ExtL( const S : AnsiString; var R : Extended) : Boolean';
17646:   Function Long2StrL( L : LongInt) : AnsiString';
17647:   Function Real2StrL( R : Double; Width : Byte; Places : ShortInt) : AnsiString';
17648:   Function Ext2StrL( R : Extended; Width : Byte; Places : ShortInt) : AnsiString';
17649:   Function ValPrepL( const S : AnsiString) : AnsiString';
17650:   Function CharStrL( C : Char; Len : Cardinal) : AnsiString';
17651:   Function PadChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString';
17652:   Function PadLL( const S : AnsiString; Len : Cardinal) : AnsiString';
17653:   Function LeftPadChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString';
17654:   Function LeftPadL( const S : AnsiString; Len : Cardinal) : AnsiString';
17655:   Function TrimLeadL( const S : AnsiString) : AnsiString';
17656:   Function TrimTrailL( const S : AnsiString) : AnsiString';
17657:   Function TrimL( const S : AnsiString) : AnsiString';
17658:   Function TrimSpacesL( const S : AnsiString) : AnsiString';
17659:   Function CenterChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString';
17660:   Function CenterL( const S : AnsiString; Len : Cardinal) : AnsiString';
17661:   Function EntabL( const S : AnsiString; TabSize : Byte) : AnsiString';
17662:   Function DetabL( const S : AnsiString; TabSize : Byte) : AnsiString';
17663:   Function ScrambleL( const S, Key : AnsiString) : AnsiString';
17664:   Function SubstituteL( const S, FromStr,ToStr : AnsiString) : AnsiString';
17665:   Function FilterL( const S, Filters : AnsiString) : AnsiString';
17666:   Function CharExistsL( const S : AnsiString; C : AnsiChar) : Boolean';
17667:   Function CharCountL( const S : AnsiString; C : AnsiChar) : Cardinal';
17668:   Function WordCountL( const S, WordDelims : AnsiString) : Cardinal';
17669:   Function WordPositionL( N : Cardinal; const S, WordDelims : AnsiString; var Pos : Cardinal) : Boolean';
17670:   Function ExtractWordL( N : Cardinal; const S, WordDelims : AnsiString) : AnsiString';
17671:   Function AsciiCountL( const S, WordDelims : AnsiString; Quote : AnsiChar) : Cardinal';
17672:   Function AsciiPositionL(N: Cardinal;const S,WordDelims:AnsiString;Quote:AnsiChar;var Pos:Cardinal):Bool;
17673:   Function ExtractAsciiL( N : Cardinal; const S, WordDelims : AnsiString; Quote : AnsiChar) : AnsiString';
17674:   Procedure WordWrapL(const InSt:AnsiString;var OutSt,Overlap:AnsiString;Margin:Cardinal;PadToMargin:Bool;
17675:   Procedure WordWrap(const InSt:AnsiString;var OutSt,Overlap:AnsiString;Margin:Cardinal;PadToMargin:Bool;
17676:   Function CompStringL( const S1, S2 : AnsiString) : Integer';
17677:   Function CompUCStringL( const S1, S2 : AnsiString) : Integer';
17678:   Function SoundexL( const S : AnsiString) : AnsiString';
17679:   Function MakeLetterSetL( const S : AnsiString) : Longint';
17680:   Procedure BMMakeTableL( const MatchString : AnsiString; var BT : BTable)');
17681:   Function BMSearchL(var Buffer,BufLength:Cardinal;var BT:BTable;const MatchString:AnsiString;var
Pos:Card):Bool;
17682:   Function BMSearchUCL( var Buffer, BufLength : Cardinal; var BT : BTable; const MatchString : AnsiString;
var Pos : Cardinal) : Boolean';
17683:   Function DefaultExtensionL( const Name, Ext : AnsiString) : AnsiString';
17684:   Function ForceExtensionL( const Name, Ext : AnsiString) : AnsiString';
17685:   Function JustFilenameL( const PathName : AnsiString) : AnsiString';
17686:   Function JustNameL( const PathName : AnsiString) : AnsiString';
17687:   Function JustExtensionL( const Name : AnsiString) : AnsiString';
17688:   Function JustPathnameL( const PathName : AnsiString) : AnsiString';
17689:   Function AddBackSlashL( const DirName : AnsiString) : AnsiString';
17690:   Function CleanPathnameL( const PathName : AnsiString) : AnsiString';
17691:   Function HasExtensionL( const Name : AnsiString; var DotPos : Cardinal) : Boolean';
17692:   Function CommaizeL( L : Longint) : AnsiString';
17693:   Function CommaizeChL( L : Longint; Ch : AnsiChar) : AnsiString';
17694:   Function FloatFormL(const Mask:AnsiString;R:TstFloat;const LtCurr,RtCurr:AnsiString;Sep,
DecPt:Char):AnsiString;
17695:   Function LongIntFormL(const Mask:AnsiString;L:LongInt;const LtCurr,
RtCurr:AnsiString;Sep:Char):AnsiString';
17696:   Function StrChPosL( const P : AnsiString; C : AnsiChar; var Pos : Cardinal) : Boolean';
17697:   Function StrStPosL( const P, S : AnsiString; var Pos : Cardinal) : Boolean';
17698:   Function StrStCopyL( const S : AnsiString; Pos, Count : Cardinal) : AnsiString';
17699:   Function StrChInsertL( const S : AnsiString; C : AnsiChar; Pos : Cardinal) : AnsiString';
17700:   Function StrStInsertL( const S1, S2 : AnsiString; Pos : Cardinal) : AnsiString';
17701:   Function StrChDeleteL( const S : AnsiString; Pos : Cardinal) : AnsiString';
17702:   Function StrStDeleteL( const S : AnsiString; Pos, Count : Cardinal) : AnsiString';
17703:   Function ContainsOnlyL( const S, Chars : AnsiString; var BadPos : Cardinal) : Boolean';
17704:   Function ContainsOtherThanL( const S, Chars : AnsiString; var BadPos : Cardinal) : Boolean';
17705:   Function CopyLeftL( const S : AnsiString; Len : Cardinal) : AnsiString';

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17706: Function CopyMidL( const S : AnsiString; First, Len : Cardinal ) : AnsiString');
17707: Function CopyRightL( const S : AnsiString; First : Cardinal ) : AnsiString');
17708: Function CopyRightAbsL( const S : AnsiString; NumChars : Cardinal ) : AnsiString');
17709: Function CopyFromNthWordL( const S,WordDelims:AString;const AWord:AString;N:Cardinal;var
SubString:AString):Bool;
17710: Function CopyFromToWordL(const S,WordDelims,Word1,Word2:AnsiString;N1,N2:Cardinal;var
SubString:AnsiString):Bool;
17711: Function CopyWithinL( const S, Delimiter : AnsiString; Strip : Boolean ) : AnsiString');
17712: Function DeleteFromNthWordL( const S, WordDelims : AnsiString; const AWord : AnsiString; N : Cardinal;
var SubString : AnsiString ) : Boolean');
17713: Function DeleteFromToWordL( const S, WordDelims, Word1, Word2 : AnsiString; N1, N2 : Cardinal; var
SubString : AnsiString ) : Boolean');
17714: Function DeleteWithinL( const S, Delimiter : AnsiString ) : AnsiString');
17715: Function ExtractTokensL( const S,
Delims:AnsiString;QuoteChar:AnsiChar;AllowNulls:Bool;Tokens:TStrings):Cardinal;
17716: Function IsChAlphaL( C : AnsiChar ) : Boolean');
17717: Function IsChNumericL( C : AnsiChar; const Numbers : AnsiString ) : Boolean');
17718: Function IsChAlphaNumericL( C : AnsiChar; const Numbers : AnsiString ) : Boolean');
17719: Function IsStrAlphaL( const S : AnsiString ) : Boolean');
17720: Function IsStrNumericL( const S, Numbers : AnsiString ) : Boolean');
17721: Function IsStrAlphaNumericL( const S, Numbers : AnsiString ) : Boolean');
17722: Function KeepCharsL( const S, Chars : AnsiString ) : AnsiString');
17723: Function LastWordL( const S, WordDelims, AWord : AnsiString; var Position : Cardinal ) : Boolean');
17724: Function LastWordAbsL( const S, WordDelims : AnsiString; var Position : Cardinal ) : Boolean');
17725: Function LastStringL( const S, AString : AnsiString; var Position : Cardinal ) : Boolean');
17726: Function LeftTrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17727: Function ReplaceWordL(const S, WordDelims,OldWord,NewWord:AnsiString;N:Cardinal;var
Replacements:Card):AnsiString;
17728: Function ReplaceWordAllL(const S,WordDelims,OldWord,NewWord:AnsiString;var
Replacements:Cardinal):AnsiString');
17729: Function ReplaceStringL(const S,OldString,NewString:AnsiString;N:Cardinal;var
Replacements:Cardinal):AnsiString;
17730: Function ReplaceStringAllL(const S,OldString,NewString:AnsiString; var Replacements:Cardinal):AnsiString;
17731: Function RepeatStringL(const RepeatString:AnsiString;var Repetitions:Cardinal;MaxLen:Cardinal):AnsiString;
17732: Function RightTrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17733: Function StrWithinL( const S, SearchStr : string; Start : Cardinal; var Position : Cardinal ) : boolean');
17734: Function TrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17735: Function WordPosL(const S,WordDelims,AWord: AnsiString;N:Cardinal;var Position:Cardinal):Bool;
17736: Function WordPos(const S,WordDelims,AWord:AnsiString;N:Cardinal;var Position:Cardinal):Bool;
17737: end;
17738:
17739: procedure SIRegister_pwnative_out(CL: TPSPPascalCompiler);
17740: begin
17741: CL.AddConstantN('STDIN','LongInt').SetInt( 0 );
17742: ('STDOUT','LongInt').SetInt( 1 );
17743: ('STDERR','LongInt').SetInt( 2 );
17744: Procedure NativeWrite( s : astr);';
17745: Procedure NativeWriteln( PString : PChar );';
17746: Procedure NativeWrite2( Buffer : PChar; NumChars : Cardinal );';
17747: Procedure NativeWriteLn( s : astr);';
17748: Procedure NativeWriteLn1();';
17749: end;
17750:
17751: procedure SIRegister_synwrap1(CL: TPSPPascalCompiler);
17752: begin
17753: CL.AddTypeS(TSynwInfo', 'record Err : byte; UrlHtml : ansistring; ErrResponse
17754: : integer; UltimateURL : ansistring; Headers : ansistring; end');
17755: CL.AddTypeS('TUrlInfo', 'record Err : byte; UltimateURL : string; end');
17756: Function GetHttpFile( const Url, UserAgent, Outfile : string; verbose : boolean): TSynwInfo;');
17757: Function GetHttpFile1( const Url, UserAgent, Outfile : string ) : TSynwInfo;');
17758: Function GetHttpFile2( const Url, Outfile : string ) : TSynwInfo;');
17759: Function GetHttpFile3( const Url, outfile : string; verbose : boolean) : TSynwInfo;');
17760: Function GetHtm( const Url : string ) : string;');
17761: Function GetHtml( const Url, UserAgent : string ) : string;');
17762: Function GetUrl( const Url : string; verbose : boolean) : TSynwInfo;');
17763: Function GetUrl1( const Url, useragent : string ) : TSynwInfo;');
17764: Function GetUrl2( const Url : string ) : TSynwInfo;');
17765: Function GetUrl3( const Url : string; const http : THTTPPSend; verbose : boolean): TUrlInfo;');
17766: Function GetUrl4( const Url : string; const http : THTTPPSend ) : TUrlInfo;');
17767: Procedure StrToStream( s : String; strm : TMemoryStream)');
17768: Function StrLoadStream( strm : TStream ) : String');
17769:
17770: end;
17771:
17772: procedure SIRegister_HTMLUtil(CL: TPSPPascalCompiler);
17773: begin
17774: Function GetVal( const tag, attribname_ci : string ) : string');
17775: Function GetTagName( const Tag : string ) : string');
17776: Function GetUpTagName( const tag : string ) : string');
17777: Function GetNameValPair( const tag, attribname_ci : string ) : string');
17778: Function GetValFromNameVal( const namevalpair : string ) : string');
17779: Function GetNameValPair_cs( const tag, attribname : string ) : string');
17780: Function GetVal_JAMES( const tag, attribname_ci : string ) : string');
17781: Function GetNameValPair_JAMES( const tag, attribname_ci : string ) : string');
17782: Function CopyBuffer( StartIndex : PChar; Len : integer ) : string');
17783: Function Ucase( s : string ) : string');
17784: end;
17785:
17786: procedure SIRegister_pwmain(CL: TPSPPascalCompiler);

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17787: begin
17788: CL.AddConstantN('FUTURE_COOKIE','String').SetString('Mon, 01 Dec 2099 12:00:00 GMT');
17789: EXPIRED_COOKIE,'String').SetString('Mon, 01 Jan 2001 12:00:00 GMT');
17790: 'SECURE_OFF','LongInt').SetInt( 0);
17791: 'SECURE_ON','LongInt').SetInt( 2);
17792: 'SECURE_FILTER','LongInt').SetInt( 3);
17793: THandle or DWord!
17794: // astr = ansistring;
17795: CL.AddTypeS('pastr', 'ansistring');
17796: CL.AddTypeS('TFilterFunc', 'function(const s: pastr): pastr;');
17797: uses pwinit at begin
17798: //type TFilterFunc = function(const s: astr): astr;
17799: Demo: ..\maxbox3\examples2\519_pwtills.txt
17800:
17801: //CL.AddConstantN('CASE_SENSITIVE','Boolean')BoolToStr( false);
17802: //CL.AddConstantN('CASE_IGNORE','Boolean')BoolToStr( false);
17803: Procedure pwInit';
17804: Procedure OffReadln';
17805: Function Lcase( const s : pastr) : pastr';
17806: Function Ucase( const s : pastr) : pastr';
17807: Function CountPostVars : longword';
17808: Function GetPostVar( const name : pastr) : pastr;');
17809: Function GetPostVar1( const name : pastr; filter : TFilterFunc) : pastr;');
17810: Function GetPostVar_S( const name : pastr; Security : integer) : pastr');
17811: Function GetPostVar_SF( const name : pastr; Security : integer) : pastr');
17812: Function GetPostVarAsFloat( const name : pastr) : double');
17813: Function GetPostVarAsInt( const name : pastr) : longint');
17814: Function GetPostVar_SafeHTML( const name : pastr) : pastr');
17815: Function FetchPostVarName( idx : longword) : pastr');
17816: Function FetchPostVarVal( idx : longword) : pastr');
17817: Function FetchPostVarVal1( idx : longword; filter : TFilterFunc) : pastr;');
17818: Function FetchPostVarName_S( idx : longword; Security : integer) : pastr');
17819: Function FetchPostVarVal_S( idx : longword; Security : integer) : pastr');
17820: Function IsPostVar( const name : pastr) : boolean');
17821: Function CountAny : longword');
17822: Function GetAny( const name : pastr) : pastr');
17823: Function GetAny1( const name : pastr; filter : TFilterFunc) : pastr;');
17824: Function GetAny_S( const name : pastr; Security : integer) : pastr');
17825: Function GetAnyAsFloat( const name : pastr) : double');
17826: Function GetAnyAsInt( const name : pastr) : longint');
17827: Function IsAny( const name : pastr) : byte');
17828: Function CountCookies : longword');
17829: Function FetchCookieName( idx : longword) : pastr');
17830: Function FetchCookieVal( idx : longword) : pastr');
17831: Function FetchCookieVal1( idx : longword; filter : TFilterFunc) : pastr');
17832: Function GetCookie( const name : pastr) : pastr');
17833: Function GetCookie1( const name : pastr; filter : TFilterFunc) : pastr');
17834: Function GetCookieAsFloat( const name : pastr) : double');
17835: Function GetCookieAsInt( const name : pastr) : longint');
17836: Function IsCookie( const name : pastr) : boolean');
17837: Function SetCookie( const name, value : pastr) : boolean');
17838: Function SetCookieAsFloat( const name : pastr; value : double) : boolean');
17839: Function SetCookieAsInt( const name : pastr; value : longint) : boolean');
17840: Function SetCookieEx( const name, value, path, domain, expiry : pastr) : boolean');
17841: Function SetCookieAsFloatEx( const name:pastr,value : double; const path, domain, expiry:pastr):bool;
17842: Function SetCookieAsIntEx( const name:pastr,value : longint; const path, domain, expiry:pastr):bool;
17843: Function UnsetCookie( const name : pastr) : boolean');
17844: Function UnsetCookieEx( const name, path, domain : pastr) : boolean');
17845: Function FilterHtml( const input : pastr) : pastr');
17846: Function FilterHtml_S( const input : pastr; security : integer) : pastr');
17847: Function TrimBadChars( const input : pastr) : pastr');
17848: Function TrimBadFile( const input : pastr) : pastr');
17849: Function TrimBadDir( const input : pastr) : pastr');
17850: Function TrimBad_S( const input : pastr; security : integer) : pastr');
17851: Function CountHeaders : longword');
17852: Function FetchHeaderName( idx : longword) : pastr');
17853: Function FetchHeaderVal( idx : longword) : pastr');
17854: Function GetHeader( const name : pastr) : pastr');
17855: Function IsHeader( const name : pastr) : boolean');
17856: Function SetHeader( const name, value : pastr) : boolean');
17857: Function UnsetHeader( const name : pastr) : boolean');
17858: Function PutHeader( const header : pastr) : boolean');
17859: Procedure OutL( const s : pastr)');
17860: Procedure OutLn( const s : pastr)');
17861: Procedure OutA( args : array of const)');
17862: Procedure OutF( const s : pastr)');
17863: Procedure OutLnF( const s : pastr)');
17864: Procedure OutFF( const s : pastr)');
17865: Procedure OutF_FI( const s : pastr; HTMLFilter : boolean)');
17866: Procedure OutLnFF( const s : pastr)');
17867: Procedure OutLnF_FI( const s : pastr; HTMLFilter : boolean)');
17868: Function FileOut( const fname : pastr) : word');
17869: Function ResourceOut( const fname : pastr) : word');
17870: Procedure BufferOut( const buff, len : LongWord)');
17871: Function TemplateOut( const fname : pastr; HtmlFilter : boolean) : word;');
17872: Function TemplateOut1( const fname : pastr) : word;');
17873: Function TemplateOut2( const fname : pastr; filter : TFilterFunc) : word;');
17874: Function TemplateOut3( const fname : pastr; HtmlFilter : boolean) : word;');
17875: Function TemplateRaw( const fname : pastr) : word');

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17876: Function Fmt( const s : pastr ) : pastr;');
17877: Function Fmtl( const s : pastr; filter : TFilterFunc ) : pastr;');
17878: Function FmtFilter( const s : pastr ) : pastr');
17879: Function Fmt_SF( const s:pastr;HTMLFilter:bool;filter:TFilterFunc;FilterSecurity:int):pastr;
17880: Function Fmt_SF1( const s:pastr; HTMLFilter:boolean; FilterSecurity , TrimSecurity : integer ) : pastr;');
17881: Function CountRtiVars : longword');
17882: Function FetchRtiName( idx : longword ) : pastr');
17883: Function FetchRtiVal( idx : longword ) : pastr');
17884: Function GetRti( const name : pastr ) : pastr');
17885: Function GetRtiAsFloat( const name : pastr ) : double');
17886: Function GetRtiAsInt( const name : pastr ) : longint');
17887: Function IsRti( const name : pastr ) : boolean');
17888: Procedure SetRTI( const name, value : pastr)');
17889: Function FetchUpfileName( idx : longword ) : pastr');
17890: Function GetUpfileName( const name : pastr ) : pastr');
17891: Function GetUpfileSize( const name : pastr ) : longint');
17892: Function GetUpFileType( const name : pastr ) : pastr');
17893: Function CountUpfiles : longword');
17894: Function IsUpfile( const name : pastr ) : boolean');
17895: Function SaveUpfile( const name, fname : pastr ) : boolean');
17896: Function CountVars : longword');
17897: Function FetchVarName( idx : longword ) : pastr');
17898: Function FetchVarVal( idx : longword ) : pastr');
17899: Function FetchVarVal( idx : longword; filter : TFilterFunc ) : pastr');
17900: Function GetVar( const name : pastr ) : pastr');
17901: Function GetVarL( const name : pastr; filter : TFilterFunc ) : pastr');
17902: Function GetVar_S( const name : pastr; security : integer ) : pastr');
17903: Function GetVarAsFloat( const name : pastr ) : double');
17904: Function GetVarAsInt( const name : pastr ) : longint');
17905: Procedure SetVar( const name, value : pastr)');
17906: Procedure SetVarAsFloat( const name : pastr; value : double)');
17907: Procedure SetVarAsInt( const name : pastr; value : longint)');
17908: Function IsVar( const name : pastr ) : byte');
17909: Procedure UnsetVar( const name : pastr)');
17910: Function LineEndToBR( const s : pastr ) : pastr');
17911: Function RandomStr( len : longint ) : pastr');
17912: Function XorCrypt( const s : pastr; key : byte ) : pastr');
17913: Function CountCfgVars : longword');
17914: Function FetchCfgVarName( idx : longword ) : pastr');
17915: Function FetchCfgVarVal( idx : longword ) : pastr');
17916: Function IsCfgVar( const name : pastr ) : boolean');
17917: Function SetCfgVar( const name, value : pastr ) : boolean');
17918: Function GetCfgVar( const name : pastr ) : pastr');
17919: Procedure ThrowErr( const s : pastr)');
17920: Procedure ThrowWarn( const s : pastr)');
17921: Procedure ErrWithHeader( const s : pastr)');
17922: CL.AddTypeS('TWebVar', 'record name : pastr; value : pastr; end');
17923: CL.AddTypeS('TWebVars', 'array of TWebVar');
17924: Function iUpdateWebVar(var webv : TWebVars; const name, value:pastr; upcased:boolean):boolean';
17925: Function iAddWebCfgVar( const name, value : pastr ) : boolean');
17926: Procedure iAddWebVar( var webv : TWebVars; const name, value : pastr)');
17927: Procedure iSetRTI( const name, value : pastr)');
17928: Function iCustomSessUnitSet : boolean');
17929: Function iCustomCfgUnitSet : boolean');
17930: end;
17931:
17932: procedure SIRegister_W32VersionInfo(CL: TPPSPascalCompiler);
17933: begin
17934:   SIRegister_TProjectVersionInfo(CL);
17935:   CL.AddDelphiFunction('Function MSLanguageToHex( const s : string ) : string');
17936:   Function MSHexToLanguage( const s : string ) : string');
17937:   Function MSCharacterSetToHex( const s : string ) : string');
17938:   Function MSHexToCharacterSet( const s : string ) : string');
17939:   Function MSLanguages : TStringList');
17940:   Function MSHexLanguages : TStringList');
17941:   Function MSCharacterSets : TStringList');
17942:   Function MSHexCharacterSets : TStringList');
17943: end;
17944:
17945: procedure SIRegister_IpUtils(CL: TPPSPascalCompiler);
17946: begin
17947:   TIpHandle', 'Cardinal');
17948:   TIpMD5StateArray', 'array[0..3] of DWORD');
17949:   CL.AddTypeS('TIpMD5CountArray', 'array[0..1] of DWORD');
17950:   TIpMD5ByteBuf', 'array[0..63] of Byte');
17951:   TIpMD5LongBuf', 'array[0..15] of DWORD');
17952:   TIpMD5Digest', 'array[0..15] of Byte');
17953:   TIpLineTerminator', '( ltNone, ltCR, ltLF, ltCRLF, ltOther )');
17954:   TIpMD5Context', 'record State : TIpMD5StateArray; Count : TIpMD5';
17955:     +'CountArray; ByteBuf : TIpMD5ByteBuf; end');
17956:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EIpBaseException');
17957:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EIpAccessException');
17958:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EIpHtmlException');
17959:   SIRegister_TIpBaseAccess(CL);
17960:   SIRegister_TIpBasePersistent(CL);
17961:   //TIPComponentClass', 'class of TIpBaseComponent');
17962:   SIRegister_TIpBaseComponent(CL);
17963:   SIRegister_TIpBaseWinControl(CL);
17964:   Function InClassA( Addr : LongInt ) : Boolean';

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17965: Function InClassB( Addr : LongInt ) : Boolean';
17966: Function InClassC( Addr : LongInt ) : Boolean';
17967: Function InClassD( Addr : LongInt ) : Boolean';
17968: Function InMulticast( Addr : LongInt ) : Boolean';
17969: Function IpCharCount( const Buffer, BufSize : DWORD; C : AnsiChar ) : DWORD';
17970: Function IpCompStruct( const S1, S2, Size : Cardinal ) : Integer';
17971: Function IpMaxInt( A, B : Integer ) : Integer';
17972: Function IpMinInt( A, B : Integer ) : Integer';
17973: Procedure IpSafeFree( var Obj: TObject' );
17974: Function IpShortVersion : string';
17975: Function IpInternetSumPrim( var Data, DataSize, CurCrc : DWORD ) : DWORD';
17976: Function IpInternetSumOfStream( Stream : TStream; CurCrc : DWORD ) : DWORD';
17977: Function IpInternetSumOfFile( const FileName : string ) : DWORD';
17978: Function MD5SumOfFile( const FileName : string ) : string';
17979: Function MD5SumOfStream( Stream : TStream ) : string';
17980: Function MD5SumOfStreamDigest( Stream : TStream ) : TIPMD5Digest';
17981: Function MD5SumOfString( const S : string ) : string';
17982: Function MD5SumOfStringDigest( const S : string ) : TIPMD5Digest';
17983: Function SafeYield : LongInt';
17984: Function AllTrimSpaces( Strng : string ) : string';
17985: Function IpCharPos( C : AnsiChar; const S : string ) : Integer';
17986: Function CharPosIdx( C : AnsiChar; const S : string; Idx : Integer ) : Integer';
17987: Function NthCharPos( C : AnsiChar; const S : string; Nth : Integer ) : Integer';
17988: Function RCharPos( C : AnsiChar; const S : string ) : Integer';
17989: Function RCharPosIdx( C : AnsiChar; const S : string; Idx : Integer ) : Integer';
17990: Function RNthCharPos( C : AnsiChar; const S : string; Nth : Integer ) : Integer';
17991: Function IpRPos( const Substr : string; const S : string ) : Integer';
17992: Function IpPosIdx( const SubStr, S : string; Idx : Integer ) : Integer';
17993: ACharSet', 'set of AnsiChar');
17994: TIPAddrRec', 'record Scheme : string; UserName : string; Password string; Authority : string;
17995: Port : string; Path : string; Fragment : string; Query : string; QueryDelim : AnsiChar; end');
17996: Procedure Initialize( var AddrRec : TIPAddrRec' );
17997: Procedure Finalize( var AddrRec : TIPAddrRec' );
17998: Function ExtractEntityName( const NamePath : string ) : string';
17999: Function ExtractEntityPath( const NamePath : string ) : string';
18000: Function IpParseURL( const URL : string; var Rslt : TIPAddrRec ) : Boolean';
18001: Function BuildURL( const OldURL, NewURL : string ) : string';
18002: Function PutEscapes( const S : string; EscapeSet : ACharSet ) : string';
18003: Function RemoveEscapes( const S : string; EscapeSet : ACharSet ) : string';
18004: Procedure SplitParams( const Params : string; Dest : TStrings' );
18005: Function NetToDOSPath( const PathStr : string ) : string';
18006: Function DOSToNetPath( const PathStr : string ) : string';
18007: Procedure SplitHttpResponse( const S : string; var V, MsgID, Msg : string' );
18008: Procedure FieldFix( Fields : TStrings' );
18009: Function AppendSlash( APath : string ) : string';
18010: Function RemoveSlash( APath : string ) : string';
18011: Function GetParentPath( const Path : string ) : string';
18012: Function GetLocalContent( const TheFileName : string ) : string';
18013: Function IPDirExists( Dir : string ) : Boolean';
18014: Function GetTemporaryFile( const Path : string ) : string';
18015: Function GetTemporaryPath : string');
18016: Function AppendBackSlash( APath : string ) : string';
18017: Function IpRemoveBackSlash( APath : string ) : string';
18018: Function INetDateToStrToDate( const DateStr : string ) : TDateTime';
18019: Function DateToINetDateToStr( DateTime : TDateTime ) : string';
18020: Function IpTimeZoneBias : Integer');
18021: Procedure SplitCookieFields( const Data : string; Fields : TStrings' );
18022: end;
18023:
18024: procedure SIRegister_LrtPoTools(CL: TPSPascalCompiler);
18025: begin
18026:   CL.AddTypeS('TPOStyle', '( postStandard, postPropertyName, postFull )');
18027:   Procedure Lrt2Po( const LRTfile : string; POStyle : TPOStyle' );
18028:   Procedure CombinePoFiles( SL : TStrings; const FName : string' );
18029: end;
18030:
18031: procedure SIRegister_GPS(CL: TPSPascalCompiler);
18032: begin
18033:   CL.AddConstantN('MAX_SATS','LongInt').SetInt( 12 );
18034:   GPSMSG_START', 'String').SetString( '$' );
18035:   GPSMSG_STOP', 'String').SetString( '*' );
18036:   SEC_BETWEEN_SEG', 'LongInt').SetInt( 5 );
18037:   CL.AddTypeS('TSatellite', 'record Identification : Shortint; Elevation : Shor'
18038:     +'tint; Azimuth : Smallint; SignLevel : Smallint; end');
18039:   CL.AddTypeS('TSatellites', 'array[1..12] of TSatellite');
18040: //TSatellites = array[1..MAX_SATS] of TSatellite;
18041:   TGPSSatEvent', 'Procedure ( Sender : TObject; NbSat, NbSatUse: Shortint; Sats : TSatellites)');
18042:   TGPSDatas', 'record Latitude : Double; Longitude : Double; Height'
18043:     + tAboveSea : Double; Speed : Double; UTCTime : TDateTime; Valid : Boolean; '
18044:     NbrSats : Shortint; NbrSatsUsed : Shortint; Course : Double; end');
18045:   CL.AddTypeS('TGPSDatasEvent', 'Procedure ( Sender : TObject; GPSDatas : TGPSDatas)');
18046:   CL.AddTypeS('TMsgGP', '( msgGP, msgGPGGA, msgGPGLL, msgGPGSV, msgGPRMA, msgGPRMC, msgGPZDA )');
18047:   CL.AddTypeS('TSpeedUnit', '( suKilometre, suMile, suNauticalMile )');
18048:   SIRegister_TGPSLink(CL);
18049:   SIRegister_TCustonGPS(CL);
18050:   SIRegister_TGPS(CL);
18051:   SIRegister_TGPSStoGPX(CL);
18052:   SIRegister_TGPSSpeed(CL);
18053:   SIRegister_TGPSSatellitesPosition(CL);

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18054:   SIRегистер_TGPSSatellitesReception(CL);
18055:   SIRегистер_TGPSCompass(CL);
18056:   //CL.AddDelphiFunction('Procedure Register( )');
18057:   Function IndexMsgGP( StrMsgGP : String ) : TMsgGP';
18058:   Function StrCoordToAngle( Point : Char; Angle : String ) : Double';
18059:   Function StrTimeToTime( const Time : String ) : TDateTime';
18060:   Function StrToInteger( const Str : String ) : Integer';
18061:   Function StrToReal( const Str : String ) : Extended';
18062:   Function GPSRotatePoint( Angle : Double; Ct, Pt : TPoint ) : TPoint';
18063:   Procedure LoadRessource( RessourceName : String; ImageList : TImageList );
18064: end;
18065;
18066: procedure SIRегистер_NMEA(CL: TPSPascalCompiler);
18067: begin
18068:   NMEADataArray', 'array of string');
18069:   Procedure TrimNMEA( var S : string );
18070:   Procedure ExpandNMEA( var S : string );
18071:   Function ParseNMEA( S : string ) : NMEADataArray';
18072:   Function ChkValidNMEA( S : string ) : Boolean';
18073:   Function IdNMEA( S : string ) : string';
18074:   Function ChkSumNMEA( const S : string ) : string';
18075:   Function PosInDeg( const PosStr : string ) : Double';
18076:   Function DateTimenMEA( const StrD, StrT : string ) : TDateTime';
18077:   Function SysClockSet( const StrD, StrT : string ) : Boolean';
18078:   function Ticks2Secs(Ticks : LongInt) : LongInt';
18079:   function Secs2Ticks(Secs : LongInt) : LongInt';
18080:   function MSecs2Ticks(MSecs : LongInt) : LongInt';
18081: end;
18082;
18083: function TRestRequest_createStringStreamFromStringList(strings: TStringList): TStringStream;
18084;
18085: {A simple Oscilloscope using TWaveIn class.
18086: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
18087: uses
18088:   Forms,
18089:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
18090:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
18091:   uColorFunctions in 'uColorFunctions.pas',
18092:   AMixer in 'AMixer.pas',
18093:   uSettings in 'uSettings.pas',
18094:   UWavein4 in 'UWavein4.pas',
18095:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
18096:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
18097;
18098: Functions_max hex in the box maxbox
18099: functionslist.txt
18100: FunctionsList1 3.9.9.86/88/91/92/94/95/96/98/100/101
18101;
18102: ****
18103: Procedure
18104: PROCEDURE SIZE 8396 8289 8242 7507 7401 6792 6310 5971 4438 3797 3600
18105: Procedure *****Now the Procedure list*****
18106: Procedure ( ACol, ARow : Integer; Items : TStrings)
18107: Procedure ( Agg : TAggregate)
18108: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
18109: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
18110: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
18111: Procedure ( ASender : TObject; const ABytes : Integer)
18112: Procedure ( ASender : TObject; VStream : TStream)
18113: Procedure ( AThread : TIdThread)
18114: Procedure ( AWebModule : TComponent)
18115: Procedure ( Column : TColumn)
18116: Procedure ( const AUsername : String; const APASSWORD : String; AAAuthenticationResult : Boolean)
18117: Procedure ( const iStart : integer; const sText : string)
18118: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
18119: Procedure ( Database : TDatabase; LoginParams : TStrings)
18120: Procedure ( DataSet:TCustomClientDataSet;E:EReconcileError;UpdateKind:TUpdateKind;var Action:TReconcileAction)
18121: Procedure ( DATASET : TDATASET)
18122: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
18123: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
18124: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
18125: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
18126: Procedure ( DBCtrctrlGrid : TDBCtrctrlGrid; Index : Integer)
18127: Procedure ( Done : Integer)
18128: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
18129: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
18130: Procedure ( HeaderControl:TCustomHeaderControl;Sect:THeaderSection;Width:Int;State:TSectionTrackState)
18131: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
18132: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
18133: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
18134: Procedure ( Sender : TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
18135: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
18136: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TownerDrawState)
18137: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
18138: Procedure ( SENDER : TFIELD; const TEXT : String)
18139: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : Boolean)
18140: Procedure ( Sender : TIdTelnet; const Buffer : String)
18141: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)

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18142: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
18143: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
18144: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
18145: Procedure ( Sender : Tobject; ACol, ARow : Longint; const Value : string)
18146: Procedure ( Sender : Tobject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
18147: Procedure ( Sender : Tobject; ACol, ARow : Longint; var CanSelect : Boolean)
18148: Procedure ( Sender : Tobject; ACol, ARow : Longint; var Value : string)
18149: Procedure ( Sender : Tobject; Button : TMPBtnType)
18150: Procedure ( Sender : Tobject; Button : TMPBtnType; var DoDefault : Boolean)
18151: Procedure ( Sender : Tobject; Button : TUDBtnType)
18152: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
18153: Procedure ( Sender : TObject; ClientSocket : TServerClientWinSocket; var SocketThread : TServerClientThread)
18154: Procedure ( Sender : TObject; Column : TListColumn)
18155: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
18156: Procedure ( Sender : TObject; Connecting : Boolean)
18157: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var DoneDraw:Bool
18158: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
18159: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
18160: Procedure ( Sender : TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
18161: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
18162: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
18163: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
18164: Procedure ( Sender : TObject; Index : LongInt)
18165: Procedure ( Sender : TObject; Item : TListItem)
18166: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
18167: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
18168: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
18169: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
18170: Procedure ( Sender : TObject; Item : TListItem; var S : string)
18171: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
18172: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
18173: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
18174: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
18175: Procedure ( Sender : TObject; Node : TTreeNode)
18176: Procedure ( Sender : TObject; Node : TTreeNode; var AllowChange : Boolean)
18177: Procedure ( Sender : TObject; Node : TTreeNode; var AllowCollapse : Boolean)
18178: Procedure ( Sender : TObject; Node : TTreeNode; var AllowEdit : Boolean)
18179: Procedure ( Sender : TObject; Node : TTreeNode; var AllowExpansion : Boolean)
18180: Procedure ( Sender : TObject; Node : TTreeNode; var S : string)
18181: Procedure ( Sender : TObject; Node1, Node2 : TTreeNode; Data : Integer; var Compare : Integer)
18182: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
18183: Procedure ( Sender : TObject; Rect : TRect)
18184: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
18185: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
18186: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
18187: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
18188: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
18189: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
18190: Procedure ( SENDER : TOBJECT; SOURCE : TMENUITEM; REBUILD : BOOLEAN)
18191: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
18192: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
18193: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
18194: Procedure ( Sender : TObject; Thread : TServerClientThread)
18195: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
18196: Procedure ( Sender : TObject; Username, Password : string)
18197: Procedure ( Sender : TObject; var AllowChange : Boolean)
18198: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
18199: Procedure ( Sender : TObject; var Caption : string; var Alignment : THMLCaptionAlignment)
18200: Procedure ( Sender : TObject; var Continue : Boolean)
18201: Procedure ( Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMethod:TIdHTTPMethod)
18202: Procedure ( Sender : TObject; var Username : string)
18203: Procedure ( Sender : TObject; Wnd : HWND)
18204: Procedure ( Sender : TToolbar; Button : TToolButton)
18205: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
18206: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
18207: Procedure ( Sender : TToolBar; Index : Integer; var Allow : Boolean)
18208: Procedure ( Sender : TToolBar; Index : Integer; var Button : TToolButton)
18209: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
18210: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
18211: Procedure ( var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
18212: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
18213: procedure (Sender: TObject)
18214: procedure (Sender: TObject; var Done: Boolean)
18215: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
18216: procedure _T(Name: tbtString; v: Variant);
18217: Procedure AbandonSignalHandler( RtlSigNum : Integer)
18218: Procedure Abort
18219: Procedure About1Click( Sender : TObject)
18220: Procedure Accept( Socket : TSocket)
18221: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
18222: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
18223: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
18224: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
18225: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
18226: Procedure Add( Addend1, Addend2 : TMyBigInt)
18227: Procedure ADD( const AKEY, AVALUE : VARIANT)
18228: Procedure Add( const Key : string; Value : Integer)
18229: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)

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18230: Procedure ADD( FIELD : TFIELD)
18231: Procedure ADD( ITEM : TMENUITEM)
18232: Procedure ADD( POPUP : TPOPUPMENU)
18233: Procedure AddCharacters( xCharacters : TCharSet)
18234: Procedure AddDriver( const Name : string; List : TStrings)
18235: Procedure AddImages( Value : TCustomImageList)
18236: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
18237: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
18238: Procedure AddLoader( Loader : TBitmapLoader)
18239: Procedure ADDPARAM( VALUE : TPARAM)
18240: Procedure AddPassword( const Password : string)
18241: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
18242: Procedure AddState( oState : TniRegularExpressionState)
18243: Procedure AddStrings( Strings : TStrings);
18244: procedure AddStrings(Strings: TStrings);
18245: Procedure AddStrings1( Strings : TWideStrings);
18246: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
18247: Procedure AddToRecentDocs( const Filename : string)
18248: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
18249: Procedure AllFunctionsList1Click( Sender : TObject)
18250: procedure AllObjectsList1Click(Sender: TObject);
18251: Procedure Allocate( AAllocateBytes : Integer)
18252: procedure AllResourceList1Click(Sender: TObject);
18253: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
18254: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
18255: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
18256: Procedure AnsiFree( var s : AnsiString)
18257: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
18258: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
18259: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
18260: Procedure Ansistring_to_stream( const Value : ansistring; Destin : TStream)
18261: Procedure AntiFreeze;
18262: Procedure APPEND
18263: Procedure Append( const S : WideString)
18264: procedure Append(S: string);
18265: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
18266: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
18267: Procedure AppendChunk( Val : OleVariant)
18268: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
18269: Procedure AppendStr( var Dest : string; S : string)
18270: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALen : Integer)
18271: Procedure ApplyRange
18272: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18273: Procedure Arrange( Code : TListArrangement)
18274: procedure Assert(expr : Boolean; const msg: string);
18275: procedure Assert2(expr : Boolean; const msg: string);
18276: Procedure Assign( Alist : TCustomBucketList)
18277: Procedure Assign( Other : TObject)
18278: Procedure Assign( Source : TDragObject)
18279: Procedure Assign( Source : TPersistent)
18280: Procedure Assign(Source: TPersistent)
18281: procedure Assign2(mystring, mypath: string);
18282: Procedure AssignCurValues( Source : TDataSet);
18283: Procedure AssignCurValues1( const CurValues : Variant);
18284: Procedure ASSIGNFIELD( FIELD : TFIELD)
18285: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
18286: Procedure AssignFile(var F: Text; FileName: string)
18287: procedure AssignFile(var F: TextFile; FileName: string)
18288: procedure AssignFileRead(var mystring, myfilename: string);
18289: procedure AssignFileWrite(mystring, myfilename: string);
18290: Procedure AssignTo( Other : TObject)
18291: Procedure AssignValues( Value : TParameters)
18292: Procedure ASSIGNVALUES( VALUE : TPARAMS)
18293: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
18294: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
18295: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
18296: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
18297: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
18298: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
18299: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
18300: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
18301: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
18302: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
18303: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
18304: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
18305: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
18306: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
18307: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
18308: procedure Beep
18309: Procedure BeepOk
18310: Procedure BeepQuestion
18311: Procedure BeepHand
18312: Procedure BeepExclamation
18313: Procedure BeepAsterisk
18314: Procedure BeepInformation
18315: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
18316: Procedure BeginLayout
18317: Procedure BeginTimer( const Delay, Resolution : Cardinal)
18318: Procedure BeginUpdate

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18319: procedure BeginUpdate;
18320: procedure BigScreen1Click(Sender: TObject);
18321: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
18322: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
18323: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
18324: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
18325: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
18326: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
18327: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
18328: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
18329: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
18330: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
18331: Procedure BreakPointMenuClick( Sender : TObject)
18332: procedure BRINGTOFRONT
18333: procedure BringToFront;
18334: Procedure btnBackClick( Sender : TObject)
18335: Procedure btnBrowseClick( Sender : TObject)
18336: Procedure BtnClick( Index : TNavigateBtn)
18337: Procedure btnLargeIconsClick( Sender : TObject)
18338: Procedure BuildAndSendRequest( AURI : TIdURI)
18339: Procedure BuildCache
18340: Procedure BurnMemory( var Buff, BuffLen : integer)
18341: Procedure BurnMemoryStream( Destrukt : TMemoryStream)
18342: Procedure CalculateFirstSet
18343: Procedure Cancel
18344: procedure CancelDrag;
18345: Procedure CancelEdit
18346: procedure CANCELHINT
18347: Procedure CancelRange
18348: Procedure CancelUpdates
18349: Procedure CancelWriteBuffer
18350: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
18351: Procedure Capture2(ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
18352: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
18353: procedure CaptureScreenFormat(vname: string; vextension: string);
18354: procedure CaptureScreenPNG(vname: string);
18355: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
18356: procedure CASCADE
18357: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
18358: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);
18359: Procedure cbPathClick( Sender : TObject)
18360: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
18361: Procedure cedebugAfterExecute( Sender : TPSScript)
18362: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
18363: Procedure cedebugCompile( Sender : TPSScript)
18364: Procedure cedebugExecute( Sender : TPSScript)
18365: Procedure cedebugIdle( Sender : TObject)
18366: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
18367: Procedure CenterHeight( const pc, pcParent : TControl)
18368: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
18369: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
18370: Procedure Change
18371: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
18372: Procedure Changed
18373: Procedure ChangeDir( const ADirName : string)
18374: Procedure ChangeDirUp
18375: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
18376: Procedure ChangeLevelBy( Value : TChangeRange)
18377: Procedure ChDir(const s: string)
18378: Procedure Check(Status: Integer)
18379: Procedure CheckCommonControl( CC : Integer)
18380: Procedure CHECKFIELDNAME( const FIELDNAME : String)
18381: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
18382: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
18383: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
18384: Procedure CheckToken( T : Char)
18385: procedure CheckToken(t:char)
18386: Procedure CheckTokenSymbol( const S : string)
18387: procedure CheckTokenSymbol(s:string)
18388: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
18389: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18390: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
18391: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);
18392: procedure CipherFileClick(Sender: TObject);
18393: Procedure Clear;
18394: Procedure Clear1Click( Sender : TObject)
18395: Procedure ClearColor( Color : TColor)
18396: Procedure CLEARITEM( AITEM : TMENUITEM)
18397: Procedure ClearMapping
18398: Procedure ClearSelection( KeepPrimary : Boolean)
18399: Procedure ClearWriteBuffer
18400: Procedure Click
18401: Procedure Close
18402: Procedure Close1Click( Sender : TObject)
18403: Procedure CloseDatabase( Database : TDatabase)
18404: Procedure CloseDataSets
18405: Procedure CloseDialog
18406: Procedure CloseFile(var F: Text);
18407: Procedure Closure

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18408: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18409: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18410: Procedure CodeCompletionList1Click( Sender : TObject)
18411: Procedure ColEnter
18412: Procedure Collapse
18413: Procedure Collapse( Recurse : Boolean)
18414: Procedure ColorRGBToHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
18415: Procedure CommaSeparatedToStringList( Alist : TStringList; const Value : string)
18416: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
18417: Procedure Compile1Click( Sender : TObject)
18418: procedure ComponentCount1Click(Sender: TObject);
18419: Procedure Compress(azipfolder, azipfile: string)
18420: Procedure DeCompress(azipfolder, azipfile: string)
18421: Procedure XZip(azipfolder, azipfile: string)
18422: Procedure XUnZip(azipfolder, azipfile: string)
18423: Procedure Connect( const ATimeout : Integer)
18424: Procedure Connect( Socket : TSocket)
18425: procedure Console1Click(Sender: TObject);
18426: Procedure Continue
18427: Procedure ContinueCount( var Counter : TJclCounter)
18428: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
18429: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
18430: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
18431: Procedure ConvertImage(vsource, vdestination: string);
18432: // Ex. ConvertImage(Exepath+'my233.bmp',Exepath+'mypng111.png')
18433: Procedure ConvertBitmap(vsource, vdestination: string);
18434: Procedure ConvertToGray(Cnv: TCanvas);
18435: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
18436: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
18437: Procedure Copyl( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
18438: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
18439: Procedure CopyBytesToHostWord( const ASource : TIddBytes; const ASourceIndex : Integer; var VDest : Word)
18440: Procedure CopyFrom( mbCopy : TMyBigInt)
18441: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)
18442: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
18443: Procedure CopyTIDByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALength : Integer)
18444: Procedure CopyTidBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int)
18445: Procedure CopyTidCardinal( const ASource : Cardinal; var VDest : TIddBytes; const ADestIndex : Integer)
18446: Procedure CopyTidInt64( const ASource : Int64; var VDest : TIddBytes; const ADestIndex : Integer)
18447: Procedure CopyTidIPv6Address(const ASource:TIdI Pv6Address; var VDest: TIddBytes; const ADestIndex : Integer)
18448: Procedure CopyTidLongWord( const ASource : LongWord; var VDest : TIddBytes; const ADestIndex : Integer)
18449: Procedure CopyTidNetworkLongWord( const ASource : LongWord; var VDest : TIddBytes; const ADestIndex : Integer)
18450: Procedure CopyTidNetworkWord( const ASource : Word; var VDest : TIddBytes; const ADestIndex : Integer)
18451: Procedure CopyTidString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
18452: Procedure CopyTidWord( const ASource : Word; var VDest : TIddBytes; const ADestIndex : Integer)
18453: Procedure CopyToClipboard
18454: Procedure CountParts
18455: Procedure CreateDataSet
18456: Procedure CreateEmptyFile( const FileName : string)
18457: Procedure CreateFileFromString( const FileName, Data : string)
18458: Procedure CreateFromDelta( Source : TPacketDataSet)
18459: procedure CREATEHANDLE
18460: Procedure CreatePipeStreams(var InPipe:TInputPipeStream;var OutPipe:TOutputPipeStream;SecAttr:PSecurityAttributes; BufSize:Longint);
18461: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
18462: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
18463: Procedure CreateTable
18464: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
18465: procedure CSyntax1Click(Sender: TObject);
18466: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
18467: Procedure CURSORPOSCHANGED
18468: procedure CutFirstDirectory(var S: String)
18469: Procedure DataBaseError(const Message: string)
18470: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
18471: procedure DateTimeToString(var Result : string; const Format: string; DateTime: TDateTime)
18472: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
18473: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
18474: Procedure DBIError(errorCode: Integer)
18475: Procedure DebugOutput( const AText : string)
18476: Procedure DebugRun1Click( Sender : TObject)
18477: procedure Dec;
18478: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
18479: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
18480: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
18481: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word)
18482: Procedure DecodeDateTime(const AValue:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
18483: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
18484: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
18485: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
18486: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
18487: Procedure Decompile1Click( Sender : TObject)
18488: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
18489: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
18490: Procedure DeferLayout
18491: Procedure deffileread
18492: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL; REMOVING:BOOLEAN)
18493: Procedure DelayMicroseconds( const MicroSeconds : Integer)

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18494: Procedure Delete
18495: Procedure Delete( const AFilename : string)
18496: Procedure Delete( const Index : Integer)
18497: Procedure DELETE( INDEX : INTEGER)
18498: Procedure Delete( Index : LongInt)
18499: Procedure Delete( Node : TTreeNode)
18500: procedure Delete(var s: AnyString; ifrom, icanth: Longint);
18501: Procedure DeleteAlias( const Name : string)
18502: Procedure DeleteDriver( const Name : string)
18503: Procedure DeleteIndex( const Name : string)
18504: Procedure DeleteKey( const Section, Ident : String)
18505: Procedure DeleteRecords
18506: Procedure DeleteRecords( AffectRecords : TAffectRecords)
18507: Procedure DeleteString( var pStr : String; const pDelStr : string)
18508: Procedure DeleteTable
18509: procedure DelphiSitelClick(Sender: TObject);
18510: Procedure Deselect
18511: Procedure Deselect( Node : TTreeNode)
18512: procedure DestroyComponents
18513: Procedure DestroyHandle
18514: Procedure Diff( var X : array of Double)
18515: procedure Diff(var X: array of Double);
18516: Procedure DirCreate( const DirectoryName : String)');
18517: procedure DISABLEALIGN
18518: Procedure DisableConstraints
18519: Procedure Disconnect
18520: Procedure Disconnect( Socket : TSocket)
18521: Procedure Dispose
18522: procedure Dispose(P: PChar)
18523: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
18524: Procedure DoKey( Key : TDBCtrlGridKey)
18525: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
18526: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
18527: Procedure Dormant
18528: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
18529: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
18530: Procedure DoubleToComp( Value : Double; var Result : Comp)
18531: Procedure doWebCamPic(picname: string); //eg: c:\mypic.png
18532: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
18533: procedure Draw(X, Y: Integer; Graphic: TGraphic);
18534: Procedure Draw1(Canvas:TCanvas; X,Y,
Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
18535: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
18536: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
18537: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
18538: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
18539: procedure DrawFocusRect(const Rect : TRect);
18540: Procedure DrawHBITToTBitmap( HDIB : THandle; Bitmap : TBitmap)
18541: Procedure DRAWMENUTITEM( MENUITEM: TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
18542: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
18543: Procedure DrawOverlay(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
18544: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
18545: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
18546: Procedure DropConnections
18547: Procedure DropDown
18548: Procedure DumpDescription( oStrings : TStrings)
18549: Procedure DumpStateTable( oStrings : TStrings)
18550: Procedure EDIT
18551: Procedure EditButtonClick
18552: Procedure EditFont1Click( Sender : TObject)
18553: procedure Ellipse(X1, Y1, X2, Y2: Integer);
18554: Procedure Ellipse( const Rect : TRect);
18555: Procedure EMMS
18556: Procedure Encode( ADest : TStream)
18557: procedure ENDDRAG(DROP:BOOLEAN)
18558: Procedure EndEdit( Cancel : Boolean)
18559: Procedure EndTimer
18560: Procedure EndUpdate
18561: Procedure EraseSection( const Section : string)
18562: Procedure Error( const Ident : string)
18563: procedure Error(Ident:Integer)
18564: Procedure ErrorFmt( const Ident : string; const Args : array of const)
18565: Procedure ErrorStr( const Message : string)
18566: procedure ErrorStr(Message:String)
18567: Procedure Exchange( Index1, Index2 : Integer)
18568: procedure Exchange(Index1, Index2: Integer);
18569: Procedure Exec( FileName, Parameters, Directory : string)
18570: Procedure ExecProc
18571: Procedure ExecSQL( UpdateKind : TUpdateKind)
18572: Procedure Execute
18573: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
18574: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
18575: Procedure ExecuteCommand(executeFile, paramstring: string)
18576: Procedure ExecuteShell(executeFile, paramstring: string)
18577: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18578: Procedure ExitThread(ExitCode: Integer); stdcall;
18579: Procedure ExitProcess(ExitCode: Integer); stdcall;
18580: Procedure Expand( AUserName : String; AResults : TStrings)

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18581: Procedure Expand( Recurse : Boolean)
18582: Procedure ExportClipboardClick( Sender : TObject)
18583: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
18584: Procedure ExtractContentFields( Strings : TStrings)
18585: Procedure ExtractCookieFields( Strings : TStrings)
18586: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
18587: Procedure ExtractHeaderFields(Separ,
 WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
18588: Procedure ExtractHTTPFields(Separators,WhiteSpace:
  TSysCharSet;Content:PChar;Strings:TStrings;StripQuots:Bool)
18589: Procedure ExtractQueryFields( Strings : TStrings)
18590: Procedure FastDegToGrad
18591: Procedure FastDegToRad
18592: Procedure FastGradToDeg
18593: Procedure FastGradToRad
18594: Procedure FastRadToDeg
18595: Procedure FastRadToGrad
18596: Procedure FileClose( Handle : Integer)
18597: Procedure FileClose(handle: integer)
18598: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs,ShowDirs,Multitasking:Bool)
18599: Procedure FileStructure( AStructure : TIIdFTPDataStructure)
18600: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
18601: Procedure FillBytes( var VBytes : TIddBytes; const ACount : Integer; const AValue : Byte)
18602: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
18603: Procedure FillChar2(var X: PChar ; count: integer; value: char)
18604: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
18605: Procedure FillIPList
18606: procedure FillRect(const Rect: TRect);
18607: Procedure FillTStrings( AStrings : TStrings)
18608: Procedure FilterOnBookmarks( Bookmarks : array of const)
18609: procedure FinalizePackage(Module: HMODULE)
18610: procedure FindClose;
18611: procedure FindClose2(var F: TSearchRec)
18612: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
18613: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
18614: Procedure FindNearest( const KeyValues : array of const)
18615: Procedure FinishContext
18616: Procedure FIRST
18617: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
18618: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
18619: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
18620: Procedure FlushSchemaCache( const TableName : string)
18621: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
18622: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
18623: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
18624: Procedure FormActivate( Sender : TObject)
18625: procedure FormatIn(const format: String; const args: array of const); //alias
18626: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
18627: Procedure FormCreate( Sender : TObject)
18628: Procedure FormDestroy( Sender : TObject)
18629: Procedure FormKeyPress( Sender : TObject; var Key : Char)
18630: procedure FormOutput1Click(Sender : TObject);
18631: Procedure FormToHtml( Form : TForm; Path : string)
18632: procedure FrameRect(const Rect: TRect);
18633: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
18634: Procedure NotebookHandlesNeeded( Notebook : TNNotebook)
18635: Procedure Free( Buffer : TRecordBuffer)
18636: Procedure Free( Buffer : TValueBuffer)
18637: Procedure Free;
18638: Procedure FreeAndNil(var Obj:TObject)
18639: Procedure FreeImage
18640: procedure FreeMem(B: PChar; Size: Integer)
18641: Procedure FreeTreeData( Tree : TUpdateTree)
18642: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
18643: Procedure FullCollapse
18644: Procedure FullExpand
18645: Procedure GenerateDBP(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
18646: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
18647: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
18648: Procedure Get1( AURL : string; const AResponseContent : TStream);
18649: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
18650: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
18651: Procedure GetAliasNames( List : TStrings)
18652: Procedure GetAliasParams( const AliasName : string; List : TStrings)
18653: Procedure GetApplicationsRunning( Strings : TStrings)
18654: Procedure getBox(aURL, extension: string);
18655: Procedure GetCommandTypes( List : TWideStrings)
18656: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
18657: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
18658: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
18659: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
18660: Procedure GetDatabaseNames( List : TStrings)
18661: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
18662: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
18663: Procedure GetDir(d: byte; var s: string)
18664: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
18665: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
18666: Procedure GetDriverParams( const DriverName : string; List : TStrings)
18667: Procedure GetDriverParams( const DriverName : string; List : TStrings)

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18668: Procedure GetEmails1Click( Sender : TObject )
18669: Procedure getEnvironmentInfo;
18670: Function getEnvironmentString: string;
18671: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings );
18672: Procedure GetFieldNames( const TableName : string; List : TStrings );
18673: Procedure GetFieldNames( const TableName : string; List : TStrings );
18674: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings );
18675: Procedure GETFIELDNAMES( LIST : TSTRINGS );
18676: Procedure GetFieldNames1( const TableName : string; List : TStrings );
18677: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings );
18678: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings );
18679: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings );
18680: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer );
18681: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer );
18682: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd );
18683: Procedure GetFormatSettings;
18684: Procedure GetFromDIB( var DIB : TBitmapInfo );
18685: Procedure GetFromHIB( HIB : HBitmap );
18686: // GetGEOMAPX('html',ExePath+'cologne2mapX.html','cathedral cologne')
18687: Procedure GetGEOMap(C_form,apath: string; const Data: string); //C_form: [html/json/xml]
18688: Procedure GetIcon( Index : Integer; Image : TIcon );
18689: Procedure GetIconl(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
18690: Procedure GetIndexInfo( IndexName : string );
18691: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings );
18692: Procedure GetIndexNames( List : TStrings );
18693: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings );
18694: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings );
18695: Procedure GetIndexNames4( const TableName : string; List : TStrings );
18696: Procedure GetInternalResponse;
18697: Procedure GETITEMNAMES( LIST : TSTRINGS );
18698: procedure GetMem(P: PChar; Size: Integer);
18699: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER);
18700: procedure GetPackageDescription(ModuleName: PChar): string;
18701: Procedure GetPackageNames( List : TStrings );
18702: Procedure GetPackageNames1( List : TWideStrings );
18703: Procedure GetParamList( List : TList; const ParamNames : WideString );
18704: Procedure GetProcedureNames( List : TStrings );
18705: Procedure GetProcedureNames( List : TWideStrings );
18706: Procedure GetProcedureNames1( const PackageName : string; List : TStrings );
18707: Procedure GetProcedureNames1( List : TStrings );
18708: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings );
18709: Procedure GetProcedureNames3( List : TWideStrings );
18710: Procedure GetProcedureNames4( const PackageName : Widestring; List : TWideStrings );
18711: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings );
18712: Procedure GetProcedureParams( ProcedureName : Widestring; List : TList );
18713: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList );
18714: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : Widestring; List : TList );
18715: Procedure GetProviderNames( Names : TWideStrings );
18716: Procedure GetProviderNames( Proc : TGetStrProc );
18717: Procedure GetProviderNames1( Names : TStrings );
18718: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
18719: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string); //no open image
18720: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string; aformat:string):TLinearBitmap;
18721: Procedure GetRGBValue( const Color: TColor; out Red, Green, Blue : Byte );
18722: Procedure GetSchemaNames( List : TStrings );
18723: Procedure GetSchemaNames1( List : TWideStrings );
18724: Procedure getScriptandRunAsk;
18725: Procedure getScriptandRun(ascript: string);
18726: Procedure getScript(ascript: string); //alias
18727: Procedure getWebScript(ascript: string); //alias
18728: Procedure GetSessionNames( List : TStrings );
18729: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings );
18730: Procedure GetStrings( List : TStrings );
18731: Procedure GetSystemTime; stdcall;
18732: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings);
18733: Procedure GetTableNames( List : TStrings; SystemTables : Boolean );
18734: Procedure GetTableNames( List : TStrings; SystemTables : Boolean );
18735: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean );
18736: Procedure GetTableNames1( List : TStrings; SchemaName : Widestring; SystemTables : Boolean );
18737: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean );
18738: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean );
18739: Procedure GetTransitionsOn( cChar : char; oStateList : TList );
18740: Procedure GetVisibleWindows( List : TStrings );
18741: Procedure GoBegin;
18742: Procedure GotoCurrent( DataSet : TCustomClientDataSet );
18743: Procedure GotoCurrent( Table : TTable );
18744: procedure GotoEnd1Click(Sender: TObject);
18745: Procedure GotoNearest;
18746: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const Direction:TGradientDirection);
18747: Procedure HandleException( E : Exception; var Handled : Boolean );
18748: procedure HANDLEMESSAGE;
18749: procedure HandleNeeded;
18750: Procedure Head( AURL : string );
18751: Procedure Help( var AHelpContents : TStringList; ACommand : String );
18752: Procedure HexToBinary( Stream : TStream );
18753: procedure HexToBinary(Stream:TStream);
18754: Procedure HideDragImage;

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18755: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
18756: Procedure HideTraybar
18757: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
18758: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
18759: Procedure HookOSExceptions
18760: Procedure HookSignal( RtlSigNum : Integer)
18761: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
18762: Procedure HTMLOutClick( Sender : TObject)
18763: Procedure IFPS3ClassesPluginImport( Sender : TObject; x : TPSPascalCompiler)
18764: Procedure IFPS3ClassesPluginExecImport( Sender : TObject; Exec : TPSExec; x : TPSRuntimeClassImporter)
18765: Procedure ImportFromClipboard1Click( Sender : TObject)
18766: Procedure ImportFromClipboard2Click( Sender : TObject)
18767: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
18768: procedure Incb(var x: byte);
18769: Procedure Include1Click( Sender : TObject)
18770: Procedure IncludeOFF; //preprocessing
18771: Procedure IncludeON;
18772: procedure Info1Click(Sender: TObject);
18773: Procedure InitAltRecBuffers( CheckModified : Boolean)
18774: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
18775: Procedure InitContext( WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse )
18776: Procedure InitData( ASource : TDataSet)
18777: Procedure InitDelta( ADelta : TPacketDataSet);
18778: Procedure InitDelta( const ADelta : OleVariant);
18779: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
18780: Procedure Initialize
18781: procedure InitializePackage(Module: HMODULE)
18782: Procedure INITIACTION
18783: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
18784: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
18785: Procedure InitModule( AModule : TComponent)
18786: Procedure InitStdConvs
18787: Procedure InitTreeData( Tree : TUpdateTree)
18788: Procedure INSERT
18789: Procedure Insert( Index : Integer; AClass : TClass)
18790: Procedure Insert( Index : Integer; AComponent : TComponent)
18791: Procedure Insert( Index : Integer; AObject : TObject)
18792: Procedure Insert( Index : Integer; const S : WideString)
18793: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
18794: Procedure Insert(Index: Integer; const S: string);
18795: procedure Insert(Index: Integer; S: string);
18796: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
18797: procedure InsertComponent(AComponent:TComponent)
18798: procedure InsertControl(AControl: TControl);
18799: Procedure InsertIcon( Index : Integer; Image : TIcon)
18800: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
18801: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
18802: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
18803: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
18804: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
18805: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
18806: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
18807: Procedure InternalBeforeResolve( Tree : TUpdateTree)
18808: Procedure InvalidateModuleCache
18809: Procedure InvalidateTitles
18810: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
18811: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
18812: Procedure InvalidDateTimeError(const AYear,AMth,ADay,AHour,AMin,ASec,AMilSec:Word;const
    ABaseDate:TDate)
18813: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
18814: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
18815: procedure JavaSyntax1Click(Sender: TObject);
18816: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
18817: Procedure KillDataChannel
18818: Procedure Largefont1Click( Sender : TObject)
18819: Procedure LAST
18820: Procedure LaunchCpl( FileName : string)
18821: Procedure Launch( const AFile : string)
18822: Procedure LaunchFile( const AFile : string)
18823: Procedure LetfileList(FileList: TStringlist; apath: string);
18824: Procedure lineToNumber( xmemo : String; met : boolean)
18825: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
    DefaultDraw:Bool)
18826: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
    : TCustDrawState; var DefaultDraw : Boolean)
18827: Procedure ListViewData( Sender : TObject; Item : TListItem)
18828: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
    : TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
18829: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
18830: Procedure ListViewDblClick( Sender : TObject)
18831: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
18832: Procedure ListDLEExports(const FileName: string; List: TStrings);
18833: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
18834: procedure LoadBytecode1Click(Sender: TObject);
18835: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
18836: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
18837: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
18838: Procedure LoadFromFile( AFileName : string)
18839: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)

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18840: Procedure LoadFromFile( const FileName : string)
18841: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
18842: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
18843: Procedure LoadFromFile( const FileName : WideString)
18844: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
18845: Procedure LoadFromFile(const AFileName: string)
18846: procedure LoadFromFile(FileName: string);
18847: procedure LoadFromFile(fileName:String);
18848: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
18849: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
18850: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
18851: Procedure LoadFromStream( const Stream : TStream)
18852: Procedure LoadFromStream( S : TStream)
18853: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinarBitmap)
18854: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18855: Procedure LoadFromStream( Stream : TStream)
18856: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
18857: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
18858: procedure LoadFromStream(Stream: TStream);
18859: Procedure LoadFromStream( Stream : TSeekableStream; const FormatExt : string);
18860: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
18861: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
18862: Procedure LoadLastFileClick( Sender : TObject)
18863: { LoadIcoToImage loads two icons from resource named NameRes,
  into two image lists ALarge and ASmall}
18864: 
18865: Procedure LoadIcoToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
18866: Procedure LoadMemo
18867: Procedure LoadParamsFromIniFile( FFileName : WideString)
18868: Procedure Lock
18869: Procedure Login
18870: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
18871: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
18872: Procedure MakeCaseInsensitive
18873: Procedure MakeDeterministic( var bChanged : boolean)
18874: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
18875: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
18876: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
18877: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
18878: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
18879: Procedure SetRectComplexFormatStr( const S : string)
18880: Procedure SetPolarComplexFormatStr( const S : string)
18881: Procedure AddComplexSoundObjectToList(newf,newp,newa,newn:integer; freqlist: TStrings);
18882: Procedure MakeVisible
18883: Procedure MakeVisible( PartialOK : Boolean)
18884: Procedure Manual1Click( Sender : TObject)
18885: Procedure MarkReachable
18886: Procedure maxBox; //shows the exe version data in a win box
18887: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
18888: Procedure Memo1Change( Sender : TObject)
18889: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var Action:TSynReplaceAction)
18890: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
18891: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
18892: procedure Memory1Click(Sender: TObject);
18893: Procedure MERGE( MENU : TMAINMENU)
18894: Procedure MergeChangeLog
18895: procedure MINIMIZE
18896: Procedure MinimizeMaxbox;
18897: procedure MyCopyFile(Name1,Name2:string);
18898: Procedure MkDir(const s: string)
18899: Procedure MakeDir(const s: string)');
18900: Procedure ChangeDir(const s: string)');
18901: Function makeFile(const FileName: string): integer)';
18902: Procedure mnuPrintFont1Click( Sender : TObject)
18903: procedure ModalStarted
18904: Procedure Modified
18905: Procedure ModifyAlias( Name : string; List : TStrings)
18906: Procedure ModifyDriver( Name : string; List : TStrings)
18907: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
18908: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
18909: Procedure Move( CurIndex, NewIndex : Integer)
18910: procedure Move(CurIndex, NewIndex: Integer);
18911: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
18912: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
18913: Procedure moveCube( o : TMyLabel)
18914: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
18915: procedure MoveTo(X, Y: Integer);
18916: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
18917: Procedure MovePoint(var x,y:Extended; const angle:Extended);
18918: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
18919: Procedure Multiplyl( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
18920: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string = 'MAINICON';Flags:DWORD=MB_OK);
18921: Procedure mxButton(x,y,width,height,top,left,aHandle: integer);
18922: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
18923: procedure New(P: PChar)
18924: procedure New1Click(Sender: TObject);
18925: procedure NewInstance1Click(Sender: TObject);
18926: Procedure NEXT
18927: Procedure NextMonth

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18928: Procedure Noop
18929: Procedure NormalizePath( var APath : string )
18930: procedure ObjectBinaryToText( Input, Output: TStream )
18931: procedure ObjectBinaryToText1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat )
18932: procedure ObjectResourceToText( Input, Output: TStream )
18933: procedure ObjectResourceToText1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat )
18934: procedure ObjectTextToBinary( Input, Output: TStream )
18935: procedure ObjectTextToBinary1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat )
18936: procedure ObjectTextToResource( Input, Output: TStream )
18937: procedure ObjectTextToResource1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat )
18938: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean )
18939: Procedure Open( const UserID : WideString; const Password : WideString );
18940: Procedure Open;
18941: Procedure open1Click( Sender : TObject )
18942: Procedure OpenCdDrive
18943: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char )
18944: Procedure OpenCurrent
18945: Procedure OpenFile(vfilenamepath: string)
18946: Procedure OpenDirectory1Click( Sender : TObject )
18947: Procedure OpenDir(adir: string);
18948: Procedure OpenIndexFile( const IndexName : string )
18949: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
  SchemID:OleVariant;DataSet:TADODataset)
18950: Procedure OpenWriteBuffer( const AThreshhold : Integer )
18951: Procedure OptimizeMem
18952: Procedure Options1( AURL : string );
18953: Procedure OutputDebugString(lpOutputString : PChar )
18954: Procedure PackBuffer
18955: Procedure Paint
18956: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean )
18957: Procedure PaintToTBitmap( Target : TBitmap )
18958: Procedure PaletteChanged
18959: Procedure ParentBidiModeChanged
18960: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT )
18961: Procedure PasteFromClipboard;
18962: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer )
18963: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
18964: Procedure PerformEraseBackground(Control: TControl; DC: HDC );
18965: Procedure PError( Text : string )
18966: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18967: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer);
18968: Procedure Play( FromFrame, ToFrame : Word; Count : Integer )
18969: procedure playmp3(mpPath: string);
18970: Procedure PlayMP31Click( Sender : TObject )
18971: Procedure PointCopy( var Dest : TPoint; const Source : TPoint )
18972: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer )
18973: procedure PolyBezier(const Points: array of TPoint);
18974: procedure PolyBezierTo(const Points: array of TPoint);
18975: procedure Polygon(const Points: array of TPoint);
18976: procedure Polyline(const Points: array of TPoint);
18977: Procedure Pop
18978: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT)
18979: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float )
18980: Procedure POPUP( X, Y : INTEGER )
18981: Procedure PopupURL(URL : WideString);
18982: Procedure POST
18983: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream );
18984: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream );
18985: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream );
18986: Procedure PostUser( const Email, FirstName, LastName : WideString )
18987: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean );
18988: procedure Pred(X: int64);
18989: Procedure Prepare
18990: Procedure PrepareStatement
18991: Procedure PreProcessXML( AList : TStrings )
18992: Procedure PreventDestruction
18993: Procedure Print( const Caption : string )
18994: procedure PrintBitmap(aGraphic: TGraphic; Title: string );
18995: procedure printf(const format: String; const args: array of const );
18996: Procedure PrintList(Value: TStringList );
18997: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
18998: Procedure Printout1Click( Sender : TObject )
18999: Procedure ProcessHeaders
19000: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR )
19001: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean );
19002: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean );
19003: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean );
19004: Procedure ProcessMessagesOFF; //application.processmessages
19005: Procedure ProcessMessagesON;
19006: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
19007: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
19008: Procedure Proclist Size is: 3797 /1415
19009: Procedure procMessClick( Sender : TObject )
19010: Procedure PSScriptCompile( Sender : TPSScript )
19011: Procedure PSScriptExecute( Sender : TPSScript )
19012: Procedure PSScriptLine( Sender : TObject )
19013: Procedure Push( ABoundary : string )
19014: procedure PushItem(AItem: Pointer)
19015: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream );

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19016: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean);
19017: procedure PutLinuxLines(const Value: string)
19018: Procedure Quit
19019: Procedure RaiseConversionError( const AText : string);
19020: Procedure RaiseConversionError( const AText : string; const AArgs : array of const);
19021: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string);
19022: procedure RaiseException(Ex: TIFEException; Param: String);
19023: Procedure RaiseExceptionForLastCmdResult;
19024: procedure RaiseLastException;
19025: procedure RaiseException2;
19026: Procedure RaiseException3(const Msg: string);
19027: Procedure RaiseExcept(const Msg: string);
19028: Procedure RaiseLastOSError
19029: Procedure RaiseLastWin32;
19030: procedure RaiseLastWin32Error)
19031: Procedure RaiseListError( const ATemplate : string; const AData : array of const)
19032: Procedure RandomFillStream( Stream : TMemoryStream)
19033: procedure randomize;
19034: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect)
19035: Procedure RCS
19036: Procedure Read( Socket : TSocket)
19037: procedure Readln1(var ast: string); //of inputquery
19038: Procedure ReadblobData
19039: procedure ReadBuffer(Buffer:String;Count:LongInt)
19040: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
19041: Procedure ReadSection( const Section : string; Strings : TStrings)
19042: Procedure ReadSections( Strings : TStrings)
19043: Procedure ReadSections( Strings : TStrings);
19044: Procedure ReadSections1( const Section : string; Strings : TStrings);
19045: Procedure ReadSectionValues( const Section : string; Strings : TStrings)
19046: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean)
19047: Procedure ReadStrings( Adest : TStrings; AReadLinesCount : Integer)
19048: Procedure ReadVersion2(aFileName: STRING; aVersion : TStrings);
19049: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
19050: Procedure Realign;
19051: procedure Rectangle(X1, Y1, X2, Y2: Integer);
19052: Procedure Rectangle1( const Rect : TRect);
19053: Procedure RectCopy( var Dest : TRect; const Source : TRect)
19054: Procedure RectFitToScreen( var R : TRect)
19055: Procedure RectGrow( var R : TRect; const Delta : Integer)
19056: Procedure RectGrowX( var R : TRect; const Delta : Integer)
19057: Procedure RectGrowY( var R : TRect; const Delta : Integer)
19058: Procedure RectMove( var R : TRect; const Deltax, DeltaY : Integer)
19059: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
19060: Procedure RectNormalize( var R : TRect)
19061: // TFileCallbackProcedure = procedure(filename:string);
19062: Procedure RecurseDirectory(Dir: String;IncludeSubs: boolean;callback: TFileCallbackProcedure);
19063: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean);
19064: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
19065: Procedure Refresh;
19066: Procedure RefreshData( Options : TFetchOptions)
19067: Procedure REFRESHLOOKUPLIST
19068: Procedure regExPathfinder(Pathin, fileout, firstp, aregex, ext: string; asort: boolean);
19069: Procedure RegExPathfinder2(Pathin, fileout, firstp, aregex, ext: string; asort, acopy: boolean);
19070: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIAuthenticationClass)
19071: Procedure RegisterChanges( Value : TChangeLink)
19072: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass)
19073: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass)
19074: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int)
19075: Procedure ReInitialize( ADelay : Cardinal)
19076: procedure RELEASE
19077: Procedure Remove( const AByteCount : integer)
19078: Procedure REMOVE( FIELD : TFIELD)
19079: Procedure REMOVE( ITEM : TMENUITEM)
19080: Procedure REMOVE( POPUP : TPOPUPMENU)
19081: Procedure RemoveAllPasswords
19082: procedure RemoveComponent(AComponent:TComponent)
19083: Procedure RemoveDir( const ADirName : string)
19084: Procedure RemoveLambdaTransitions( var bChanged : boolean)
19085: Procedure REMOVEPARAM( VALUE : TPARAM)
19086: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
19087: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState);
19088: Procedure Rename( const ASourceFile, ADestFile : string)
19089: Procedure Rename( const FileName : string; Reload : Boolean)
19090: Procedure RenameTable( const NewTableName : string)
19091: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
19092: Procedure Replace1Click( Sender : TObject)
19093: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime)
19094: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
19095: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
19096: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
19097: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime)
19098: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
19099: Procedure Requery( Options : TExecuteOptions)
19100: Procedure Reset
19101: Procedure Reset1Click( Sender : TObject)
19102: Procedure ResizeCanvas( XSiz,YSiz,XPos,YPos : Integer; Color : TColor)
19103: procedure ResourceExplore1Click(Sender: TObject);
19104: Procedure RestoreContents

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19105: Procedure RestoreDefaults
19106: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
19107: Procedure RetrieveHeaders
19108: Procedure RevertRecord
19109: Procedure RGBAToBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
19110: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
19111: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
19112: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
19113: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
19114: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
19115: Procedure RleCompress2( Stream : TStream)
19116: Procedure RleDecompress2( Stream : TStream)
19117: Procedure RmDir( const S: string)
19118: Procedure Rollback
19119: Procedure Rollback( TransDesc : TTransactionDesc)
19120: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
19121: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
19122: Procedure RollbackTrans
19123: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
19124: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
19125: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
19126: Procedure RunD1132Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
19127: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
19128: Procedure S_EBox( const AText : string)
19129: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int
19130: Procedure S_IBox( const AText : string)
19131: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
19132: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
19133: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
19134: Procedure SampleVarianceAndMean
19135: ( const X : TDynFloatArray; var Variance, Mean : Float)
19136: Procedure Save2Click( Sender : TObject)
19137: Procedure Saveas3Click( Sender : TObject)
19138: Procedure Savebefore1Click( Sender : TObject)
19139: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
19140: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
19141: Procedure SaveConfigFile
19142: Procedure SaveOutput1Click( Sender : TObject)
19143: procedure SaveScreenshotClick(Sender: TObject);
19144: Procedure SaveIn(pathname, content: string); //SaveIn(exepath+'mysaveltest.txt', memo2.text);
19145: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
19146: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
19147: Procedure SaveToFile( AFileName : string)
19148: Procedure SAVETOFILE( const FILENAME : String)
19149: Procedure SaveToFile( const FileName : WideString)
19150: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
19151: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
19152: procedure SaveToFile(FileName: string);
19153: procedure SaveToFile(FileName:String)
19154: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
19155: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
19156: Procedure SaveToStream( S : TStream)
19157: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
19158: Procedure SaveToStream( Stream : TStream)
19159: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
19160: procedure SaveToStream(Stream: TStream);
19161: procedure SaveToStream(Stream:TStream)
19162: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
19163: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
19164: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
19165: procedure Say(const sText: string)
19166: Procedure SBytecode1Click( Sender : TObject)
19167: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
19168: procedure ScriptExplorer1Click(Sender: TObject);
19169: Procedure Scroll( Distance : Integer)
19170: Procedure Scroll( DX, DY : Integer)
19171: procedure ScrollBy(DeltaX, DeltaY: Integer);
19172: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
19173: Procedure ScrollTabs( Delta : Integer)
19174: Procedure Search1Click( Sender : TObject)
19175: procedure SearchAndOpenDoc(vfilenamepath: string)
19176: procedure SearchAndOpenFile(vfilenamepath: string)
19177: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
19178: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
19179: Procedure SearchNext1Click( Sender : TObject)
19180: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
19181: Procedure Select1( const Nodes : array of TTreeNode);
19182: Procedure Select2( Nodes : TList);
19183: Procedure SelectNext( Direction : Boolean)
19184: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
19185: Procedure SelfTestPEM //unit uPSI_cPEM
19186: Procedure Send( AMsg : TIdMessage)
19187: //config forst in const MAILINITFILE = 'maildef.ini';
19188: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
19189: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19190: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19191: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
19192: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)

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19193: Procedure SendResponse
19194: Procedure SendStream( AStream : TStream )
19195: Procedure Set8087CW( NewCW : Word )
19196: Procedure SetAll( One, Two, Three, Four : Byte )
19197: Procedure SetAltRecBuffers( Old, New, Cur : PChar )
19198: Procedure SetAppDispatcher( const AD dispatcher : TComponent )
19199: procedure SetArrayLength;
19200: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
19201: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
19202: procedure SetArrayLength2String2(arr: T2StringArray; asize1, asize2: integer); //all init
19203: procedure SetArrayLength2Integer2(arr: T2IntegerArray; asize1, asize2: integer);
19204: procedure Set2DimStrArray(var arr: T2StringArray; asize1, asize2: integer');");
19205: procedure Set2DimIntArray(var arr: T2IntegerArray; asize1, asize2: integer)'');
19206: procedure Set3DimIntArray(var arr: T3IntegerArray; asize1, asize2, asize3: integer);
19207: procedure Set3DimStrArray(var arr: T3StringArray; asize1, asize2, asize3: integer);
19208: Procedure SetsHandle( Format : Word; Value : THandle )
19209: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
19210: procedure SetCaptureControl(Control: TControl );
19211: Procedure SetColumnAttributes
19212: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDate Time;ASecure:Boolean)
19213: Procedure SetCustomHeader( const Name, Value : string )
19214: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
19215: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd )
19216: Procedure SetFocus
19217: procedure SetFocus; virtual;
19218: Procedure SetInitialState
19219: Procedure SetKey
19220: procedure SetLastError(ErrorCode: Integer)
19221: procedure SetLength;
19222: Procedure SetLineBreakStyle( var T : Text; Style : TTTextLineBreakStyle )
19223: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU )
19224: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind );
19225: procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
19226: Procedure SetParams1( UpdateKind : TUpdateKind );
19227: Procedure SetPassword( const Password : string )
19228: Procedure SetPointer( Ptr : Pointer; Size : Longint )
19229: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod )
19230: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle )
19231: Procedure SetProvider( Provider : TComponent )
19232: Procedure SetProxy( const Proxy : string )
19233: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject )
19234: Procedure SetRange( const StartValues, EndValues : array of const )
19235: Procedure SetRangeEnd
19236: Procedure SetRate( const aPercent, aYear : integer )
19237: procedure SetRate(const aPercent, aYear: integer)
19238: Procedure SetReportMemoryLeaksOnShutdown(abo: boolean)
19239: Procedure SetSafeCallExceptionMsg( Msg : String )
19240: procedure SETSELTEXTBUF(BUFFER:PCHAR)
19241: Procedure SetSize( AWidth, AHeight : Integer )
19242: procedure SetSize(NewSize:LongInt)
19243: procedure SetString(var s: string; buffer: PChar; len: Integer)
19244: Procedure SetStrings( List : TStrings )
19245: Procedure SetText( Text : PWideChar )
19246: procedure SetText(Text: PChar);
19247: Procedure SetTextBuf( Buffer : PChar )
19248: procedure SETTEXTBUF(BUFFER:PCHAR)
19249: Procedure SetTick( Value : Integer )
19250: Procedure SetTimeout( ATimeOut : Integer )
19251: Procedure SetTraceEvent( Event : TDBXTraceEvent )
19252: Procedure SetUserName( const UserName : string )
19253: Procedure SetWallpaper( Path : string );
19254: procedure ShellStyle1Click(Sender: TObject);
19255: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE )
19256: Procedure ShowFileProperties( const FileName : string )
19257: Procedure ShowInclde1Click( Sender : TObject )
19258: Procedure ShowInterfaces1Click( Sender : TObject )
19259: Procedure ShowLastException1Click( Sender : TObject )
19260: Procedure ShowMessage( const Msg : string )
19261: Procedure ShowMessageBig(const aText : string);
19262: Procedure ShowMessageBig2(const aText : string; aAutoSize: boolean);
19263: Procedure ShowMessageBig3(const aText : string; fsize: byte; aAutoSize: boolean);
19264: Procedure MsgBig(const aText : string); //alias
19265: procedure showMessage(mytext: string);
19266: Procedure ShowMessageFmt( const Msg : string; Params : array of const )
19267: procedure ShowMessageFmt(const Msg: string; Params: array of const )
19268: Procedure ShowMessagePos( const Msg : string; X, Y : Integer )
19269: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
19270: Procedure ShowSearchDialog( const Directory : string )
19271: Procedure ShowSpecChars1Click( Sender : TObject )
19272: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
19273: Procedure ShredFile( const FileName : string; Times : Integer )
19274: procedure Shuffle(vq: TStringList );
19275: Procedure ShuffleList( var List : array of Integer; Count : Integer )
19276: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState )
19277: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended )
19278: Procedure SinCose( X : Extended; out Sin, Cos : Extended )
19279: Procedure Site( const ACommand : string )
19280: Procedure SkipEOL

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19281: Procedure Sleep( ATime : cardinal)
19282: Procedure Sleep( milliseconds : Cardinal)
19283: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
19284: Procedure Slinenumbers1Click( Sender : TObject)
19285: Procedure Sort
19286: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
19287: procedure SoundAlarm; //beep seq
19288: procedure Speak(const sText: string) //async like voice
19289: procedure Speak2(const sText: string) //sync
19290: procedure Split(Str: string; SubStr: string; List: TStrings);
19291: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
19292: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)
19293: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
19294: Procedure SplitLines( AData: PChar; ADataSize : Integer; AStrings : TStrings)
19295: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
19296: procedure SQLSyntax1Click(Sender: TObject);
19297: Procedure SRand( Seed : RNG_IntType)
19298: Procedure Start
19299: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
19300: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
19301: //Ex. StartFileFinder3(exepath+'exercices','*.pas','record',false,seclist);
19302: Procedure StartTransaction( TransDesc : TTransactionDesc)
19303: Procedure Status( var AStatusList : TStringList)
19304: Procedure StatusBar1DblClick( Sender : TObject)
19305: Procedure StepInto1Click( Sender : TObject)
19306: Procedure StepIt
19307: Procedure StepOut1Click( Sender : TObject)
19308: Procedure Stop
19309: procedure stopmp3;
19310: procedure StartWeb(aurl: string);
19311: Procedure Str(aint: integer; astr: string); //of system
19312: Procedure StrDispose( Str : PChar)
19313: procedure StrDispose(Str: PChar)
19314: Procedure StrReplace(var Str: String; Old, New: String);
19315: Procedure StretchDBITs( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
19316: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
19317: Procedure StringToBytes( Value : String; Bytes : array of byte)
19318: procedure StrSet(c : Char; I : Integer; var s : String);
19319: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
19320: Procedure StructureMount( APath : String)
19321: procedure STYLECHANGED(SENDER:TOBJECT)
19322: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
19323: procedure Succ(X: int64);
19324: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
19325: procedure SwapChar(var X,Y: char); //swapX follows
19326: Procedure SwapFloats( var X, Y : Float)
19327: procedure SwapGrid(grd: TStringGrid);
19328: Procedure SwapOrd( var I, J : Byte);
19329: Procedure SwapOrd( var X, Y : Integer)
19330: Procedure SwapOrd1( var I, J : Shortint);
19331: Procedure SwapOrd2( var I, J : Smallint);
19332: Procedure SwapOrd3( var I, J : Word);
19333: Procedure SwapOrd4( var I, J : Integer);
19334: Procedure SwapOrd5( var I, J : Cardinal);
19335: Procedure SwapOrd6( var I, J : Int64);
19336: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
19337: Procedure Synchronize1( Method : TMethod);
19338: procedure SyntaxCheck1Click(Sender: TObject);
19339: Procedure SysFreeString(const S: WideString); stdcall;
19340: Procedure TakeOver( Other : TLinearBitmap)
19341: Procedure Talkln(const sText: string) //async voice
19342: procedure tbtn6resClick(Sender: TObject);
19343: Procedure tbtnUseCaseClick( Sender : TObject)
19344: procedure TerminalStyle1Click(Sender: TObject);
19345: Procedure Terminate
19346: Procedure texSyntax1Click( Sender : TObject)
19347: procedure TextOut(X, Y: Integer; Text: string);
19348: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
19349: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
19350: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
19351: Procedure TextStart
19352: procedure TILE
19353: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
19354: Procedure TitleClick( Column : TColumn)
19355: Procedure ToDo
19356: procedure toolbtnTutorialClick(Sender: TObject);
19357: Procedure Trace1( AURL : string; const AResponseContent : TStream);
19358: Procedure TransferMode( ATransferMode : TIdFTPTransferMode)
19359: Procedure Truncate
19360: procedure Tutorial101Click(Sender: TObject);
19361: procedure Tutorial10Statistics1Click(Sender: TObject);
19362: procedure Tutorial11Forms1Click(Sender: TObject);
19363: procedure Tutorial12SQL1Click(Sender: TObject);
19364: Procedure tutorial1Click( Sender : TObject)
19365: Procedure tutorial2Click( Sender : TObject)
19366: Procedure tutorial3Click( Sender : TObject)
19367: Procedure tutorial4Click( Sender : TObject)
19368: Procedure Tutorial5Click( Sender : TObject)
19369: procedure Tutorial6Click(Sender: TObject);

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19370: procedure Tutorial91Click(Sender: TObject);
19371: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
19372: procedure UniqueString(var str: AnsiString)
19373: procedure UnloadLoadPackage(Module: HMODULE)
19374: Procedure Unlock
19375: Procedure UNMERGE( MENU : TMAINMENU)
19376: Procedure UnRegisterChanges( Value : TChangeLink)
19377: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
19378: Procedure UnregisterConversionType( const AType : TConvType)
19379: Procedure UnRegisterProvider( Prov : TCustomProvider)
19380: Procedure UPDATE
19381: Procedure UpdateBatch( AffectRecords : TAffectRecords)
19382: Procedure UPDATECURSORPOS
19383: Procedure UpdateFile
19384: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
19385: Procedure UpdateResponse( AResponse : TWebResponse)
19386: Procedure UpdateScrollBar
19387: Procedure UpdateView1Click( Sender : TObject)
19388: procedure Val(const s: string; var n, z: Integer)
19389: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
19390: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
19391: Procedure VariantAdd( const src : Variant; var dst : Variant)
19392: Procedure VariantAnd( const src : Variant; var dst : Variant)
19393: Procedure VariantArrayRedim( var V : Variant; High : Integer)
19394: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
19395: Procedure VariantClear( var V : Variant)
19396: Procedure VariantCpy( const src : Variant; var dst : Variant)
19397: Procedure VariantDiv( const src : Variant; var dst : Variant)
19398: Procedure VariantMod( const src : Variant; var dst : Variant)
19399: Procedure VariantMul( const src : Variant; var dst : Variant)
19400: Procedure VariantOr( const src : Variant; var dst : Variant)
19401: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
19402: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
19403: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
19404: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
19405: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
19406: Procedure VariantShl( const src : Variant; var dst : Variant)
19407: Procedure VariantShr( const src : Variant; var dst : Variant)
19408: Procedure VariantSub( const src : Variant; var dst : Variant)
19409: Procedure VariantXor( const src : Variant; var dst : Variant)
19410: Procedure VarCastError;
19411: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
19412: Procedure VarInvalidOp
19413: Procedure VarInvalidNullOp
19414: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
19415: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
19416: Procedure VarArrayCreateError
19417: Procedure VarResultCheck( AResult : HRESULT);
19418: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
19419: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
19420: Function VarTypeAsText( const AType : TVarType) : string
19421: procedure Voice(const sText: string) //async
19422: procedure Voice2(const sText: string) //sync
19423: Procedure WaitMilliseconds( AMSec : word)
19424: Procedure WaitMS( AMSec : word)');
19425: procedure WebCamPic(picname: string); //eg: c:\mypic.png
19426: Procedure WideAppend( var dst : WideString; const src : WideString)
19427: Procedure WideAssign( var dst : WideString; var src : WideString)
19428: Procedure WideDelete( var dst : WideString; index, count : Integer)
19429: Procedure WideFree( var s : WideString)
19430: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
19431: Procedure WideFromPChar( var dst : WideString; src : PChar)
19432: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
19433: Procedure WideStringSetLength( var dst : WideString; len : Integer)
19434: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
19435: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
19436: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
19437: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
19438: Procedure HttpGet(const Url: string; Stream:TStream);
19439: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIdBytes; Index : integer)
19440: Procedure WordWrap1Click( Sender : TObject)
19441: Procedure Write( const AOut : string)
19442: Procedure Write( Socket : TSocket)
19443: procedure Write(S: string);
19444: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
19445: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
19446: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
19447: procedure WriteBuffer(Buffer: String; Count: LongInt)
19448: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
19449: Procedure WriteChar( AValue : Char)
19450: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
19451: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
19452: Procedure WriteFloat( const Section, Name : string; Value : Double)
19453: Procedure WriteHeader( AHeader : TStrings)
19454: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
19455: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
19456: Procedure WriteLn( const AOut : string)
19457: procedure Writeln(s: string);
19458: Procedure WriteLog( const FileName, LogLine : string)

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19459: Procedure WriteRFCReply( AReply : TIdRFCReply)
19460: Procedure WriteRFCStrings( AStrings : TStrings)
19461: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
19462: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASIZE:Int)
19463: Procedure WriteString( const Section, Ident, Value : String)
19464: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
19465: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
19466: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
19467: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
19468: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
19469: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String)');
19470: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
19471: procedure XMLSyntax1Click(Sender: TObject);
19472: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
19473: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
19474: Procedure ZeroFillStream( Stream : TMemoryStream)
19475: procedure XMLSyntax1Click(Sender: TObject);
19476: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
19477: procedure(Control: TWInControl; Index: Integer; Rect: TRect; State: Byte)
19478: procedure(Control: TWInControl; Index: Integer; var Height: Integer)
19479: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
19480: procedure(Sender, Source: TObject; X, Y: Integer)
19481: procedure(Sender, Target: TObject; X, Y: Integer)
19482: procedure(Sender: TObject; ASection, AWidth: Integer)
19483: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
19484: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
19485: procedure(Sender: TObject; var Action: TCloseAction)
19486: procedure(Sender: TObject; var CanClose: Boolean)
19487: procedure(Sender: TObject; var Key: Char);
19488: ProcedureName ProcedureNames ProcedureParametersCursor @
19489:
19490: *****Now Constructors constructor *****
19491: Size is: 1248 1115 996 628 550 544 501 459 (381)
19492: Attach( VersionInfoData : Pointer; Size : Integer)
19493: constructor Create( ABuckets : TBucketListSizes)
19494: Create( ACallBackWnd : HWND)
19495: Create( AClient : TCustomTaskDialog)
19496: Create( AClient : TIdTelnet)
19497: Create( ACollection : TCollection)
19498: Create( ACollection : TFavoriteLinkItems)
19499: Create( ACollection : TTaskDialogButtons)
19500: Create( AConnection : TIdCustomHTTP)
19501: Create( ACreateSuspended : Boolean)
19502: Create( ADataSet : TCustomSQLDataSet)
19503: CREATE( ADATASET : TDATASET)
19504: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
19505: Create( AGrid : TCustomDBGrid)
19506: Create( AGrid : TStringGrid; AIndex : Longint)
19507: Create( AHTTP : TIdCustomHTTP)
19508: Create( AListItems : TListItems)
19509: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
19510: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
19511: Create( AOwner : TCommonCalendar)
19512: Create( AOwner : TComponent)
19513: CREATE( AOWNER : TCOMPONENT)
19514: Create( AOwner : TCustomListView)
19515: Create( AOwner : TCustomOutline)
19516: Create( AOwner : TCustomRichEdit)
19517: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
19518: Create( AOwner : TCustomTreeView)
19519: Create( AOwner : TIdUserManager)
19520: Create( AOwner : TListItems)
19521: Create(AOwner:TObj;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvt:TBDECallbkEvt;Chain:Bool)
19522: CREATE( AOWNER : TPERSISTENT)
19523: Create( AOwner : TPersistent)
19524: Create( AOwner : TTable)
19525: Create( AOwner : TTreeNodes)
19526: Create( AOwner : TWInControl; const ClassName : string)
19527: Create( AParent : TIdCustomHTTP)
19528: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
19529: Create( AProvider : TBaseProvider)
19530: Create( AProvider : TCustomProvider);
19531: Create( AProvider : TDataSetProvider)
19532: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
19533: Create( ASocket : TSocket)
19534: Create( AStrings : TWideStrings)
19535: Create( AToolBar : TToolBar)
19536: Create( ATreeNodes : TTreeNodes)
19537: Create( Autofill : boolean)
19538: Create( AWebPageInfo : TABstractWebPageInfo)
19539: Create( AWebRequest : TWebRequest)
19540: Create( Collection : TCollection)
19541: Create( Collection : TIdMessageParts; ABody : TStrings)
19542: Create( Collection : TIdMessageParts; const AFileName : TFileName)
19543: Create( Column : TColumn)
19544: Create( const AConvFamily : TConvFamily; const ADescription : string)
19545: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
19546: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
           AFromCommonProc : TConversionProc)

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19547: Create( const AInitialState : Boolean; const AManualReset : Boolean)
19548: Create( const ATabSet : TTabSet)
19549: Create( const Compensate : Boolean)
19550: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
19551: Create( const FileName : string)
19552: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
   : Int64; const SecAttr : PSecurityAttributes);
19553: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
19554: Create( const MaskValue : string)
19555: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
19556: Create( const Prefix : string)
19557: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
19558: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
19559: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
19560: Create( CoolBar : TCoolBar)
19561: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
19562: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
19563: Create( DataSet : TDataSet; const
   Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
   DepFields : TBits; FieldMap : TFieldMap)
19564: Create( DBCtrlGrid : TDBCctrlGrid)
19565: Create( DSTableProducer : TDSTableProducer)
19566: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
19567: Create( ErrorCode : DBIResult)
19568: Create( Field : TBlobField; Mode : TBlobStreamMode)
19569: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
19570: Create( HeaderControl : TCustomHeaderControl)
19571: Create( HTTPRequest : TWebRequest)
19572: Create( iStart : integer; sText : string)
19573: Create( iValue : Integer)
19574: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
19575: Create( MciErrNo : MCIEERROR; const Msg : string)
19576: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
19577: Create( Message : string; ErrorCode : DBResult)
19578: Create( Msg : string)
19579: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
19580: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
19581: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
19582: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
19583: Create(oSource:TniRegularExpressionState;oDestination:TniRegularExpression;xCharacts:TCharSet;bLambda:bool)
19584: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
19585: Create( Owner : TCustomComboBoxEx)
19586: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: string; OPTIONS: TINDEXOPTIONS)
19587: Create( Owner : TPersistent)
19588: Create( Params : TStrings)
19589: Create( Size : Cardinal)
19590: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
19591: Create( StatusBar : TCustomStatusBar)
19592: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
19593: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
19594: Create(AHandle:Integer)
19595: Create(AOwner: TComponent); virtual;
19596: Create(const AURI : string)
19597: Create(FileName:String;Mode:Word)
19598: Create(Instance:THandle;ResName:String;ResType:PChar)
19599: Create(Stream : TStream)
19600: Create(ADataset : TDataset);
19601: Create( const FileHandle:THandle; const Name:string; Protect:Cardinal; const MaximumSize:Int64; const
   SecAttr:PSecurityAttributes);
19602: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
19603: Create2( Other : TObject);
19604: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
19605: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
19606: CreateFmt( MciErrNo : MCIEERROR; const Msg : string; const Args : array of const)
19607: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
19608: CreateLinked( DBCtrlGrid : TDBCctrlGrid)
19609: CREATENEW(AOWNER:TCOMPONENT; Dummy: Integer)
19610: CreateRes( Ident : Integer);
19611: CreateRes( MciErrNo : MCIEERROR; Ident : Integer)
19612: CreateRes( ResStringRec : PResStringRec);
19613: CreateResHelp( Ident : Integer; AHelpContext : Integer);
19614: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
19615: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
19616: CreateSize( AWidth, AHeight : Integer)
19617: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
19618:
19619: -----
19620: unit UPSI_MathMax;
19621: -----
19622: CONSTS
19623: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
19624: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
19625: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
19626: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
19627: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
19628: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
19629: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
19630: PiJ: Float = 3.1415926535897932384626433832795; // PI
19631: PI: Extended = 3.1415926535897932384626433832795);

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19632: PiOn2: Float      = 1.5707963267948966192313216916398; // PI / 2
19633: PiOn3: Float      = 1.0471975511965977461542144610932; // PI / 3
19634: PiOn4: Float      = 0.78539816339744830961566084581988; // PI / 4
19635: Sqrt2: Float      = 1.4142135623730950488016887242097; // Sqrt(2)
19636: Sqrt3: Float      = 1.7320508075688772935274463415059; // Sqrt(3)
19637: Sqrt5: Float      = 2.236067977499789694091736687313; // Sqrt(5)
19638: Sqrt10: Float     = 3.1622776601683793319988935444327; // Sqrt(10)
19639: SqrtPi: Float     = 1.7724538509055160272981674833411; // Sqrt(PI)
19640: Sqrt2Pi: Float    = 2.506628274631000502415765284811; // Sqrt(2 * PI)
19641: TwoPi: Float      = 6.283185307179586476925286766559; // 2 * PI
19642: ThreePi: Float   = 9.4247779607693797153879301498385; // 3 * PI
19643: Ln2: Float        = 0.69314718055994530941723212145818; // Ln(2)
19644: Ln10: Float       = 2.3025850929940456840179914546844; // Ln(10)
19645: LnPi: Float       = 1.1447298858494001741434273513531; // Ln(PI)
19646: Log2J: Float      = 0.301029995663981119521373889472449; // Log10(2)
19647: Log3: Float       = 0.4771212547196243729502790325512; // Log10(3)
19648: LogPi: Float     = 0.4971498726941338543512682882909; // Log10(PI)
19649: LogE: Float       = 0.43429448190325182765112891891661; // Log10(E)
19650: E: Float          = 2.7182818284590452353602874713527; // Natural constant
19651: hLn2Pi: Float    = 0.91893853320467274178032973640562; // Ln(2*PI)/2
19652: inv2Pi: Float    = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
19653: TwoToPower63: Float = 9223372036854775808.0; // 2^63
19654: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
19655: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
19656: RadCor : Double   = 57.29577951308232; {number of degrees in a radian}
19657: StDelta : Extended = 0.00001; {delta for difference equations}
19658: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
19659: StMaxIterations : Integer = 100; {max attempts for convergence}
19660:
19661: procedure SIRegister_StdConvs(CL: TPSPascalCompiler);
19662: begin
19663:   MetersPerInch = 0.0254; // [1]
19664:   MetersPerFoot = MetersPerInch * 12;
19665:   MetersPerYard = MetersPerFoot * 3;
19666:   MetersPerMile = MetersPerFoot * 5280;
19667:   MetersPerNauticalMiles = 1852;
19668:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
19669:   MetersPerLightSecond = 2.99792458E8; // [5]
19670:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
19671:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
19672:   MetersPerCubit = 0.4572; // [6][7]
19673:   MetersPerFathom = MetersPerFoot * 6;
19674:   MetersPerFurlong = MetersPerYard * 220;
19675:   MetersPerHand = MetersPerInch * 4;
19676:   MetersPerPace = MetersPerInch * 30;
19677:   MetersPerRod = MetersPerFoot * 16.5;
19678:   MetersPerChain = MetersPerRod * 4;
19679:   MetersPerLink = MetersPerChain / 100;
19680:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
19681:   MetersPerPica = MetersPerPoint * 12;
19682:
19683:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
19684:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
19685:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
19686:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
19687:   SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
19688:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
19689:
19690:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
19691:   CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
19692:   CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
19693:   CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
19694:   CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
19695:   CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
19696:   CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
19697:   CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
19698:
19699:   CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
19700:   CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
19701:   CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
19702:   CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
19703:   CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 8;
19704:   CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
19705:   CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
19706:   CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
19707:
19708:   CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
19709:   CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
19710:   CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
19711:   CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
19712:   CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
19713:   CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
19714:
19715:   CubicMetersPerUKGallon = 0.00454609; // [2][7]
19716:   CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
19717:   CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
19718:   CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
19719:   CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
19720:   CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;

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19721: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
19722: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
19723: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
19724:
19725: GramsPerPound = 453.59237; // [1][7]
19726: GramsPerDrams = GramsPerPound / 256;
19727: GramsPerGrains = GramsPerPound / 7000;
19728: GramsPerTons = GramsPerPound * 2000;
19729: GramsPerLongTons = GramsPerPound * 2240;
19730: GramsPerOunces = GramsPerPound / 16;
19731: GramsPerStones = GramsPerPound * 14;
19732:
19733: MaxAngle 9223372036854775808.0;
19734: MaxTanH 5678.2617031470719747459655389854);
19735: MaxFactorial( 1754 );
19736: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
19737: MinFloatingPoint( (3.3621031431120935062626778173218E-4932);
19738: MaxTanH( 354.89135644669199842162284618659 );
19739: MaxFactorial'LongInt'( 170 );
19740: MaxFloatingPointD(1.797693134862315907729305190789E+308);
19741: MinFloatingPointD(2.2250738585072013830902327173324E-308);
19742: MaxTanH( 44.361419555836499802702855773323 );
19743: MaxFactorial'LongInt'( 33 );
19744: MaxFloatingPointsS( 3.4028236692093846346337460743177E+38 );
19745: MinFloatingPointsS( 1.1754943508222875079687365372222E-38 );
19746: PiExt( 3.1415926535897932384626433832795 );
19747: RatioDegToRad( PiExt / 180.0 );
19748: RatioGradToRad( PiExt / 200.0 );
19749: RatioDegToGrad( 200.0 / 180.0 );
19750: RatioGradToDeg( 180.0 / 200.0 );
19751: Crc16PolynomCCITT'LongWord $1021);
19752: Crc16PolynomIBM'LongWord $8005);
19753: Crc16Bits'LongInt'( 16 );
19754: Crc16Bytes'LongInt'( 2 );
19755: Crc16HighBit'LongWord $8000);
19756: NotCrc16HighBit','LongWord $7FFF);
19757: Crc32PolynomIEEE','LongWord $04C11DB7);
19758: Crc32PolynomCastagnoli','LongWord $1EDC6F41);
19759: Crc32Koopman','LongWord $741B8CD7);
19760: Crc32Bits','LongInt'( 32 );
19761: Crc32Bytes','LongInt'( 4 );
19762: Crc32HighBit','LongWord $80000000);
19763: NotCrc32HighBit','LongWord $7FFFFFFF);
19764:
19765: MinByte      = Low(Byte);
19766: MaxByte      = High(Byte);
19767: MinWord      = Low(Word);
19768: MaxWord      = High(Word);
19769: MinShortInt = Low(ShortInt);
19770: MaxShortInt = High(ShortInt);
19771: MinSmallInt = Low(SmallInt);
19772: MaxSmallInt = High(SmallInt);
19773: MinLongWord = LongWord(Low(LongWord));
19774: MaxLongWord = LongWord(High(LongWord));
19775: MinLongInt = LongInt(Low(LongInt));
19776: MaxLongInt = LongInt(High(LongInt));
19777: MinInt64    = Int64(Low(Int64));
19778: MaxInt64    = Int64(High(Int64));
19779: MinInteger  = Integer(Low(Integer));
19780: MaxInteger  = Integer(High(Integer));
19781: MinCardinal = Cardinal(Low(Cardinal));
19782: MaxCardinal = Cardinal(High(Cardinal));
19783: MinNativeUInt = NativeUInt(Low(NativeUInt));
19784: MaxNativeUInt = NativeUInt(High(NativeUInt));
19785: MinNativeInt = NativeInt(Low(NativeInt));
19786: MaxNativeInt = NativeInt(High(NativeInt));
19787: Function Cosh( const Z : Float ) : Float;
19788: Function SinH( const Z : Float ) : Float;
19789: Function TanH( const Z : Float ) : Float;
19790:
19791: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
19792: InvLn2      = 1.44269504088896340736; { 1/Ln(2) }
19793: InvLn10     = 0.43429448190325182765; { 1/Ln(10) }
19794: TwoPi       = 6.28318530717958647693; { 2*Pi }
19795: PiDiv2     = 1.57079632679489661923; { Pi/2 }
19796: SqrtPi     = 1.77245385090551602730; { Sqrt(Pi) }
19797: Sqrt2Pi    = 2.50662827463100050242; { Sqrt(2*Pi) }
19798: InvSqrt2Pi = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
19799: LnSqrt2Pi = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
19800: Ln2PiDiv2 = 0.91893853320467274178; { Ln(2*Pi)/2 }
19801: Sqrt2      = 1.41421356237309504880; { Sqrt(2) }
19802: Sqrt2Div2 = 0.7071067818654752440; { Sqrt(2)/2 }
19803: Gold       = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
19804: CGold      = 0.38196601125010515179; { 2 - GOLD }
19805: MachEp     = 2.220446049250313E-16; { 2^(-52) }
19806: MaxNum     = 1.797693134862315E+308; { 2^1024 }
19807: MinNum     = 2.225073858507202E-308; { 2^(-1022) }
19808: MaxLog     = 709.7827128933840;
19809: MinLog     = -708.3964185322641;

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19810: MaxFac = 170;
19811: MaxGam = 171.624376956302;
19812: MaxLgm = 2.556348E+305;
19813: SingleCompareDelta = 1.0E-34;
19814: DoubleCompareDelta = 1.0E-280;
19815: (*IFDEF CLR)
19816: ExtendedCompareDelta = DoubleCompareDelta;
19817: (*ELSE)
19818: ExtendedCompareDelta = 1.0E-4400;
19819: (*ENDIF)
19820: Bytes1KB = 1024;
19821: Bytes1MB = 1024 * Bytes1KB;
19822: Bytes1GB = 1024 * Bytes1MB;
19823: Bytes64KB = 64 * Bytes1KB;
19824: Bytes64MB = 64 * Bytes1MB;
19825: Bytes2GB = 2 * LongWord(Bytes1GB);
19826: clBlack32', $FF000000 );
19827: clDimGray32', $FF3F3F3F );
19828: clGray32', $FF7F7F7F );
19829: clLightGray32', $FFBFBFBF );
19830: clWhite32', $FFFFFF );
19831: clMaroon32', $FF7F0000 );
19832: clGreen32', $FF007F00 );
19833: clOlive32', $FF7F7F00 );
19834: clNavy32', $FF00007F );
19835: clPurple32', $FF7F007F );
19836: clTeal32', $FF007F7F );
19837: clRed32', $FF000000 );
19838: clLime32', $FF00FF00 );
19839: clYellow32', $FFFFFF00 );
19840: clBlue32', $FF0000FF );
19841: clFuchsia32', $FFFF00FF );
19842: clAqua32', $FF00FFFF );
19843: clAliceBlue32', $FFF0F8FF );
19844: clAntiqueWhite32', $FFFAEBD7 );
19845: clAquamarine32', $FF7FFFD4 );
19846: clAzure32', $FFF0FFF );
19847: clBeige32', $FFF5F5DC );
19848: clBisque32', $FFFFFFE4C4 );
19849: clBlancheDalmond32', $FFFFEBED );
19850: clBlueViolet32', $FF8A2BE2 );
19851: clBrown32', $FFA52A2A );
19852: clBurlyWood32', $FFDEB887 );
19853: clCadetblue32', $FF5F9EA0 );
19854: clChartreuse32', $FF7FFF00 );
19855: clChocolate32', $FFD2691E );
19856: clCoral32', $FFFF7F50 );
19857: clCornFlowerBlue32', $FF6495ED );
19858: clCornSilk32', $FFFFFF8DC );
19859: clCrimson32', $FFDC143C );
19860: clDarkBlue32', $FF00008B );
19861: clDarkCyan32', $FF008B8B );
19862: clDarkGoldenRod32', $FFB8860B );
19863: clDarkGray32', $FFA9A9A9 );
19864: clDarkGreen32', $FF006400 );
19865: clDarkGrey32', $FFA9A9A9 );
19866: clDarkKhaki32', $FFBDB76B );
19867: clDarkMagenta32', $FF8B008B );
19868: clDarkOliveGreen32', $FF556B2F );
19869: clDarkOrange32', $FFFF8C00 );
19870: clDarkOrchid32', $FF9932CC );
19871: clDarkRed32', $FF8B0000 );
19872: clDarkSalmon32', $FFE9967A );
19873: clDarkSeaGreen32', $FF8FBC8F );
19874: clDarkSlateBlue32', $FF483D8B );
19875: clDarkSlateGray32', $FF2F4F4F );
19876: clDarkSlateGrey32', $FF2F4F4F );
19877: clDarkTurquoise32', $FF00CED1 );
19878: clDarkViolet32', $FF9400D3 );
19879: clDeepPink32', $FFFF1493 );
19880: clDeepSkyBlue32', $FF00BFFF );
19881: clDodgerBlue32', $FF1E90FF );
19882: clFireBrick32', $FFB22222 );
19883: clFloralWhite32', $FFFFFFA0 );
19884: clGainsboro32', $FFDCDCDC );
19885: clGhostWhite32', $FFF8F8FF );
19886: clGold32', $FFFFD700 );
19887: clGoldenRod32', $FFDA520 );
19888: clGreenYellow32', $FFADFF2F );
19889: clGrey32', $FF808080 );
19890: clHoneyDew32', $FFF0FFF0 );
19891: clHotPink32', $FFFF69B4 );
19892: clIndianRed32', $FFCD5C5C );
19893: clIndigo32', $FF4B0082 );
19894: clIvory32', $FFFFFF00 );
19895: clKhaki32', $FFF0E68C );
19896: clLavender32', $FFE6E6FA );
19897: clLavenderBlush32', $FFFFF0F5 );
19898: clLawnGreen32', $FF7CFC00 );

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19899:     clLemonChiffon32', $FFFFFACD ));
19900:     clLightBlue32', $FFFA08E6 ));
19901:     clLightCoral32', $FFF08080 ));
19902:     clLightCyan32', $FFE0FFFF ));
19903:     clLightGoldenRodYellow32', $FFFFAFAD2 ));
19904:     clLightGreen32', $FF90EE90 ));
19905:     clLightGrey32', $FFD3D3D3 ));
19906:     clLightPink32', $FFFFB6C1 ));
19907:     clLightSalmon32', $FFF0A07A ));
19908:     clLightSeagreen32', $FF20B2AA ));
19909:     clLightSkyblue32', $FF87CEFA ));
19910:     clLightSlategray32', $FF778899 ));
19911:     clLightSlategrey32', $FF778899 ));
19912:     clLightSteelblue32', $FFB0C4DE ));
19913:     clLightYellow32', $FFFFFFE0 ));
19914:     clLtGray32', $FFC0COC0 ));
19915:     clMedGray32', $FFA0AOA4 ));
19916:     clDkGray32', $FF808080 ));
19917:     clMoneyGreen32', $FFC0DCC0 ));
19918:     clLegacySkyBlue32', $FFA6CAF0 ));
19919:     clCream32', $FFFFFBF0 ));
19920:     clLimeGreen32', $FF32CD32 ));
19921:     clLinen32', $FFFAF0E6 ));
19922:     clMediumAquamarine32', $FF66CDAA ));
19923:     clMediumBlue32', $FF0000CD ));
19924:     clMediumOrchid32', $FFBA55D3 ));
19925:     clMediumPurple32', $FF9370DB ));
19926:     clMediumSeaGreen32', $FF3CB371 ));
19927:     clMediumSlateBlue32', $FF7B68EE ));
19928:     clMediumSpringGreen32', $FF00FA9A ));
19929:     clMediumTurquoise32', $FF48D1CC ));
19930:     clMediumVioletRed32', $FFC71585 ));
19931:     clMidnightBlue32', $FF191970 ));
19932:     clMintCream32', $FFF5FFFA ));
19933:     clMistyRose32', $FFFFE4E1 ));
19934:     clMoccasin32', $FFFFE4B5 ));
19935:     clNavajoWhite32', $FFFDEAD ));
19936:     clOldLace32', $FFFDF5E6 ));
19937:     clOliveDrab32', $FF68E23 ));
19938:     clOrange32', $FFFA500 ));
19939:     clOrangeRed32', $FFFF4500 ));
19940:     clOrchid32', $FFDA70D6 ));
19941:     clPaleGoldenRod32', $FFEEE8AA ));
19942:     clPaleGreen32', $FF98FB98 ));
19943:     clPaleTurquoise32', $FFAFEEEE ));
19944:     clPaleVioletred32', $FFDB7093 ));
19945:     clPapayaWhip32', $FFFFEF05 ));
19946:     clPeachPuff32', $FFFFDAB9 ));
19947:     clPeru32', $FFCD853F ));
19948:     clPlum32', $FFDDA0DD ));
19949:     clPowderBlue32', $FFB0E0E6 ));
19950:     clRosyBrown32', $FFBC8F8F ));
19951:     clRoyalBlue32', $FF4169E1 ));
19952:     clSaddleBrown32', $FF8B4513 ));
19953:     clSalmon32', $FFFA8072 ));
19954:     clSandyBrown32', $FFF4A460 ));
19955:     clSeaGreen32', $FF2E8B57 ));
19956:     clSeashell32', $FFFFFF5EE ));
19957:     clSienna32', $FFA0522D ));
19958:     clSilver32', $FFC0COC0 ));
19959:     clSkyblue32', $FF87CEEE ));
19960:     clSlateBlue32', $FF6A5ACD ));
19961:     clSlateGray32', $FF708090 ));
19962:     clSlateGrey32', $FF708090 ));
19963:     clSnow32', $FFFFFAFA ));
19964:     clSpringgreen32', $FF00FF7F ));
19965:     clSteelblue32', $FF4682B4 ));
19966:     clTan32', $FFD2B48C ));
19967:     clThistle32', $FFD8BFD8 ));
19968:     clTomato32', $FFFF6347 ));
19969:     clTurquoise32', $FF40E0D0 ));
19970:     clViolet32', $FFEE82EE ));
19971:     clWheat32', $FFF5DEB3 ));
19972:     clWhitesmoke32', $FFF5F5F5 ));
19973:     clYellowgreen32', $FF9ACD32 ));
19974:     clTrWhite32', $FFFFFFF ));
19975:     clTrBlack32', $7F000000 ));
19976:     clTrRed32', $7FFF0000 ));
19977:     clTrGreen32', $7F00FF00 ));
19978:     clTrBlue32', $7F0000FF ));
19979: // Fixed point math constants
19980: FixedOne = $10000; FixedHalf = $7FFF;
19981: FixedPI = Round(PI * FixedOne);
19982: FixedToFloat = 1/FixedOne;
19983:
19984: Special Types
19985: ****
19986: type Complex = record
19987:   X, Y : Float;

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19988: end;
19989: type TVector = array of Float;
19990: TIntVector = array of Integer;
19991: TCompVector = array of Complex;
19992: TBoolVector = array of Boolean;
19993: TStringVector = array of String;
19994: TMatrix = array of TVector;
19995: TIntMatrix = array of TIntVector;
19996: TCompMatrix = array of TCompVector;
19997: TBoolMatrix = array of TBoolVector;
19998: TStringMatrix = array of TStringVector;
19999: TByteArray = array[0..32767] of byte; !
20000: THexArray = array [0..15] of Char; // = '0123456789ABCDEF';
20001: TBitmapStyle = (bsNormal, bsCentered, bsStretched);
20002: T2StringArray = array of array of string;
20003: T2IntegerArray = array of array of integer;
20004: AddTypeS('INT_PTR', 'Integer');
20005: AddTypes('LONG_PTR', 'Integer');
20006: AddTypes('UINT_PTR', 'Cardinal');
20007: AddTypes('ULONG_PTR', 'Cardinal');
20008: AddTypeS('DWORD_PTR', 'ULONG_PTR');
20009: TIntIntegerDynArray', 'array of Integer';
20010: TCardinalDynArray', 'array of Cardinal';
20011: TWordDynArray', 'array of Word';
20012: TSsmallIntDynArray', 'array of SmallInt';
20013: TByteDynArray', 'array of Byte';
20014: TShortIntDynArray', 'array of ShortInt';
20015: TInt64DynArray', 'array of Int64';
20016: TLongWordDynArray', 'array of LongWord';
20017: TSsingleDynArray', 'array of Single';
20018: TDDoubleDynArray', 'array of Double';
20019: TBooleanDynArray', 'array of Boolean';
20020: TStringDynArray', 'array of string';
20021: TWideStringDynArray', 'array of WideString';
20022: TDynByteArray = array of Byte;
20023: TDynShortintArray = array of Shortint;
20024: TDynSmallintArray = array of Smallint;
20025: TDynWordArray = array of Word;
20026: TDynIntegerArray = array of Integer;
20027: TDynLongintArray = array of Longint;
20028: TDynCardinalArray = array of Cardinal;
20029: TDynInt64Array = array of Int64;
20030: TDynExtendedArray = array of Extended;
20031: TDynDoubleArray = array of Double;
20032: TDynSingleArray = array of Single;
20033: TDynFloatArray = array of Float;
20034: TDynPointerArray = array of Pointer;
20035: TDynStringArray = array of string;
20036: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
20037:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
20038: TSynSearchOptions = set of TSynSearchOption;
20039:
20040:
20041: /* Project : Base Include RunTime Lib for maxbox *Name: pas_includebox.inc
20042: -----
20043: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
20044: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
20045: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
20046: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
20047: function CheckStringSum(vstring: string): integer;
20048: function HexToInt(HexNum: string): LongInt;
20049: function IntToBin(Int: Integer): String;
20050: function BinToInt(Binary: String): Integer;
20051: function HexToBin(HexNum: string): string; external2;
20052: function BinToHex(Binary: String): string;
20053: function IntToFloat(i: Integer): double;
20054: function AddThousandSeparator(S: string; myChr: Char): string;
20055: function Max3(const X,Y,Z: Integer): Integer;
20056: procedure Swap(var X,Y: char); // faster without inline;
20057: procedure ReverseString(var S: String);
20058: function CharToHexStr(Value: Char): string;
20059: function CharToUniCode(Value: Char): string;
20060: function Hex2Dec(Value: Str002): Byte;
20061: function HexStrCodeToStr(Value: string): string;
20062: function HexToStr(i: integer; value: string): string;
20063: function UniCodeToStr(Value: string): string;
20064: function CRC16(statement: string): string;
20065: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
20066: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
20067: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
20068: Procedure ExecuteCommand(executeFile, paramstring: string);
20069: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
20070: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
20071: procedure SearchAndOpenDoc(vfilenamepath: string);
20072: procedure ShowInterfaces(myFile: string);
20073: function Fact2(av: integer): extended;
20074: Function BoolToStr(B: Boolean): string;
20075: Function GCD(x, y : LongInt) : LongInt;
20076: function LCM(m,n: longint): longint;

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20077: function GetASCII: string;
20078: function GetItemHeight(Font: TFont): Integer;
20079: function myPlaySound(s: pchar; flag,syncflag: integer): boolean;
20080: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
20081: function getHINSTANCE: longword;
20082: function getHMODULE: longword;
20083: function GetASCII: string;
20084: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
20085: function WordIsOk(const AWord: string; var VW: Word): boolean;
20086: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
20087: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
20088: function SafeStr(const s: string): string;
20089: function ExtractUrlPath(const FileName: string): string;
20090: function ExtractUrlName(const FileName: string): string;
20091: function IsInternet: boolean;
20092: function RotateLeft1Bit_u32( Value: uint32): uint32;
20093: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var LF:TStLinEst; ErrorStats: Bool);
20094: procedure getEnvironmentInfo;
20095: procedure AntiFreeze;
20096: function GetCPUSpeed: Double;
20097: function IsVirtualPcGuest : Boolean;
20098: function IsVmWareGuest : Boolean;
20099: procedure StartSerialDialog;
20100: function IsWoW64: boolean;
20101: function IsWow64String(var s: string): Boolean;
20102: procedure StartThreadDemo;
20103: Function RGB(R,G,B: Byte): TColor;
20104: Function SendIn(amess: string): boolean;
20105: Procedure maxbox;
20106: Function AspectRatio(aWidth, aHeight: Integer): String;
20107: function wget(aURL, afile: string): boolean;
20108: procedure PrintList(Value: TStringList);
20109: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
20110: procedure getEnvironmentInfo;
20111: procedure AntiFreeze;
20112: function getBitmap(apath: string): TBitmap;
20113: procedure ShowMessageBig(const aText : string);
20114: function YesNoDialog(const ACaption, AMsg: string): boolean;
20115: procedure SetArrayLength2String(arr: T2StringArray; asizel, asize2: integer);
20116: procedure SetArrayLength2Integer(arr: T2IntegerArray; asizel, asize2: integer);
20117: //function myStrToBytes(const Value: String): TBytes;
20118: //function myBytesToStr(const Value: TBytes): String;
20119: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
20120: function getBitmap(apath: string): TBitmap;
20121: procedure ShowMessageBig(const aText : string);
20122: Function StrToBytes(const Value: String): TBytes;
20123: Function BytesToStr(const Value: TBytes): String;
20124: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
20125: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
20126: function FindInPaths(const fileName, paths : String) : String;
20127: procedure initHexArray(var hexn: THexArray);
20128: function josephusG(n,k: integer; var graphout: string): integer;
20129: function isPowerof2(num: int64): boolean;
20130: function powerOf2(exponent: integer): int64;
20131: function getBigPI: string;
20132: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
20133: function GetASCIILine: string;
20134: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
20135: pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
20136: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
20137: procedure AddComplexSoundObjectToList(newf,newp,newa,neww,newn:integer; freqlist: TStrings);
20138: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
20139: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
20140: function isKeypressed: boolean;
20141: function Keypress: boolean;
20142: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
20143: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
20144: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
20145: function GetOSName: string;
20146: function GetOSVersion: string;
20147: function GetOSNumber: string;
20148: function getEnvironmentString: string;
20149: procedure StrReplace(var Str: String; Old, New: String);
20150: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
20151: function getTeamViewerID: string;
20152: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
20153: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
20154: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
20155: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
20156: function StartSocketService: Boolean;
20157: procedure StartSocketServiceForm;
20158: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
20159: function GetFileList1(apath: string): TStringlist;
20160: procedure LetFileList(FileList: TStringlist; apath: string);
20161: procedure StartWeb(aurl: string);
20162: function GetTodayFiles(startdir, amask: string): TStringlist;
20163: function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;

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20164: function JavahashCode(val: string): Integer;
20165: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
20166: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
20167: Procedure HideWindowForSeconds(secs: integer); //3 seconds
20168: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
20169: Procedure ConvertToGray(Cnv: TCanvas);
20170: function GetFileDate(aFile:string; aWithTime:Boolean):string;
20171: procedure ShowMemory;
20172: function ShowMemory2: string;
20173: function getHostIP: string;
20174: procedure ShowBitmap(bmap: TBitmap);
20175: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
20176: function CreateDBGridForm(dblist: TStringList): TListbox;
20177: function isService: boolean;
20178: function isApplication: boolean;
20179: function isTerminalSession: boolean;
20180:
20181:
20182: // News of 3.9.8 up
20183: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
20184: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
20185: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
20186: JvChart - TJvChart Component - 2009 Public
20187: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
20188: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
20189: TAdoQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions
20190: DMath DLL included incl. Demos
20191: Interface Navigator menu/View/Intf Navigator
20192: Unit Explorer menu/Debug/Units Explorer
20193: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maXcel
20194: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
20195: Script History to 9 Files WebServer light /Options/Addons/WebServer
20196: Full Text Finder, JVSSimLogic Simulator Package
20197: Halt-Stop Program in Menu, WebServer2, Stop Event ,
20198: Conversion Routines, Prebuild Forms, CodeSearch
20199: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
20200: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
20201: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
20202: JvChart - TJvChart Component - 2009 Public, mxGames, JvgXMLLoader, TJvPaintFX
20203: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
20204: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
20205: IDE Reflection API, Session Service Shell S3
20206: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
20207: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
20208: arduino map() function, PRandom Generator
20209: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
20210: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
20211: REST Test Lib, Multilang Component, Forth Interpreter
20212: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
20213: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
20214: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
20215: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
20216: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
20217: QRCode Service, add more CFunctions like CDatetime of Synapse
20218: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
20219: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
20220: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
20221: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
20222: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
20223: BOLD Package, Indy Package5, maTRIX. MATHEMAX
20224: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
20225: emax layers: system-package-component-unit-class-function-block
20226: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
20227: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
20228: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
20229: OpenGL Game Demo: ..Options/Add Ons/Reversi
20230: IBUtis Refactor, InterBase Package, DotNet Routines (JvExControls)
20231: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
20232: 7% performance gain (hot spot profiling)
20233: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
20234: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
20235: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
20236: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools, Zeus
20237:
20238: add routines in 3.9.7.5
20239: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEExec);
20240: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEExec);
20241: 069: procedure RIRegister_IdStrings_Routines(S: TPSEExec);
20242: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEExec);
20243: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEExec);
20244: 374: procedure RIRegister_SerDlgs_Routines(S: TPSEExec);
20245: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEExec);
20246:
20247: ////////////////////////////// TestUnits //////////////////////////////
20248: SelftestPEM;
20249: SelfTestCFundamentUtils;
20250: SelfTestCFileUtils;
20251: SelfTestCDateTime;
20252: SelfTestCTimer;

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20253: SelfTestCRandom;
20254: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
20255:             Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath'
20256:
20257: // Note: There's no need for installing a client certificate in the
20258: // webbrowser. The server asks the webbrowser to send a certificate but
20259: // if nothing is installed the software will work because the server
20260: // doesn't check to see if a client certificate was supplied. If you want you can install:
20261: // file: c_cacert.p12 password: c_cakey
20262:
20263: TGraphicControl = class(TControl)
20264: private
20265:   FCanvas: TCanvas;
20266:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
20267: protected
20268:   procedure Paint; virtual;
20269:   property Canvas: TCanvas read FCanvas;
20270: public
20271:   constructor Create(AOwner: TComponent); override;
20272:   destructor Destroy; override;
20273: end;
20274:
20275: TCustomControl = class(TWinControl)
20276: private
20277:   FCanvas: TCanvas;
20278:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
20279: protected
20280:   procedure Paint; virtual;
20281:   procedure PaintWindow(DC: HDC); override;
20282:   property Canvas: TCanvas read FCanvas;
20283: public
20284:   constructor Create(AOwner: TComponent); override;
20285:   destructor Destroy; override;
20286: end;
20287: RegisterPublishedProperties;
20288: ('ONCHANGE', 'TNotifyEvent', iptrw);
20289: ('ONCLICK', 'TNotifyEvent', iptrw);
20290: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
20291: ('ONENTER', 'TNotifyEvent', iptrw);
20292: ('ONEXIT', 'TNotifyEvent', iptrw);
20293: ('ONKEYDOWN', 'TKeyEvent', iptrw);
20294: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
20295: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
20296: ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
20297: ('ONMOUSEUP', 'TMouseEvent', iptrw);
20298: //*****
20299: // To stop the while loop, click on Options>Show Include (boolean switch)!
20300: Control a loop in a script with a form event:
20301: IncludeON; //control the while loop
20302: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
20303: repeat {for it:= 1 to n do} until is keypressed //keypress in output window below (memo2)
20304:
20305: //-----
20306: //*****mX4 ini-file Configuration*****
20307: //-----
20308: using config file maxboxdef.ini           menu/Help/Config File
20309:
20310: //*** Definitions for maXbox mX3 ***
20311: [ FORM ]
20312: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
20313: FONTSIZE=14
20314: EXTENSION=txt
20315: SCREENX=1386
20316: SCREENY=1077
20317: MEMHEIGHT=350
20318: PRINTFONT=Courier New //GUI Settings
20319: LINENUMBERS=Y //line numbers at gutter in editor at left side
20320: EXCEPTIONLOG=Y //store excepts + success in 2 log files see below! -menu Debug>Show Last Exceptions
20321: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
20322: BOOTSCRIPT=Y //enabling load a boot script
20323: MEMORYREPORT=Y //shows memory report on closing maXbox
20324: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
20325: NAVIGATOR=N //shows function list at the right side of editor
20326: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
20327: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
20328: [ WEB ]
20329: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
20330: IPHOST=192.168.1.53
20331: ROOTCERT=filepathY
20332: SCERT=filepathY
20333: RSAKEY=filepathY
20334: VERSIONCHECK=Y
20335:
20336: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
20337: Also possible to set report memory in script to override ini setting
20338: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
20339:
20340: After Change the ini file you can reload the file with ..../Help/Config Update
20341:

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20342: //-----
20343: //*****mX4 maildef.ini ini-file Configuration*****
20344: //-----
20345: //*** Definitions for maXMail ***
20346: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
20347: [ MAXMAIL ]
20348: HOST=getmail.softwareschule.ch
20349: USER=mailusername
20350: PASS=password
20351: PORT=110
20352: SSL=Y
20353: BODY=Y
20354: LAST=5
20355:
20356: ADO Connection String:
20357: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
20358: \452_dbtreeview2access.txt
20359: program TestDbTreeViewMainForm2_ACCESS;
20360:   ConnectionString='Provider=Microsoft.Jet.OLEDB.4.0;Data Source='
20361:           +Exepath+'\examples\detail.mdb;Persist Security Info=False';
20362:
20363: OpenSSL Lib: unit ssl_openssl_lib;
20364: {$IFDEF CIL}
20365: const
20366: {$IFDEF LINUX}
20367: DLLSSLSName = 'libssl.so';
20368: DLLUtilName = 'libcrypto.so';
20369: {$ELSE}
20370: DLLSSLSName = 'ssleay32.dll';
20371: DLLUtilName = 'libeay32.dll';
20372: {$ENDIF}
20373: {$ELSE}
20374: var
20375: {$IFNDEF MSWINDOWS}
20376: {$IFDEF DARWIN}
20377: DLLSSLSName: string = 'libssl.dylib';
20378: DLLUtilName: string = 'libcrypto.dylib';
20379: {$ELSE}
20380: DLLSSLSName: string = 'libssl.so';
20381: DLLUtilName: string = 'libcrypto.so';
20382: {$ENDIF}
20383: {$ELSE}
20384: DLLSSLSName: string = 'ssleay32.dll';
20385: DLLSSLSName2: string = 'libssl32.dll';
20386: DLLUtilName: string = 'libeay32.dll';
20387: {$ENDIF}
20388: {$ENDIF}
20389:
20390:
20391: //-----
20392: //*****mX4 Macro Tags *****
20393: //-----
20394:
20395:   asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
20396:
20397: //Tag Macros
20398:
20399:   asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
20400:
20401: //Tag Macros
20402: 10188: SearchAndCopy(memo1.lines, '#name', getUserNameWin, 11);
20403: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
20404: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
20405: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
20406: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
20407: 10199: SearchAndCopy(memo1.lines, '#fil1', fname+' '+SHA1(Act_Filename), 11);
20408: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
20409: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
20410: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
20411: [getUserNameWin, getComputernameWin, datetimetoStr(now),
20412: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s: %s %s ',
20413: 10197: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename],11);
20414: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename],11);
20415: 10198: SearchAndCopy(memo1.lines, '#tech',Format('perf: %s threads: %d %s %s',
20416: [perftime, numprocesssthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
20417: 10298: SearchAndCopy(memo1.lines, '#net',Format('DNS: %s; local IPs: %s; local IP: %s',
20418: [getDNS, GetLocalIPs, getIPAddress(getComputerNameWin)]), 10);
20419:
20420: //#tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
20421:
20422: //Replace Macros
20423:   SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
20424:   SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
20425:   SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
20426:   SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPATH, 9);
20427:   SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
20428:   SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+Source', 8);
20429:

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20430: SearchAndCopy(memo1.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
20431:     [perftime,numprocessthreads,getIPAddress(getComputerNameWin),timetoStr(time),mbversion]], 11);
20432: //##tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
20433: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt'
20434:
20435: //-----
20436: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
20437: //-----
20438:
20439:     while I < sl.Count do begin
20440:     //         if MatchesMask(sl[I], '/? TODO ([a-z0-9_]*#[1-9#])*:*') then
20441:         if MatchesMask(sl[I], '/? TODO (?#?#)*:*') then
20442:             BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
20443:         else if MatchesMask(sl[I], '/? DONE (?#?#)*:*') then
20444:             BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
20445:         else if MatchesMask(sl[I], '/? TODO (#?#)*:*') then
20446:             BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
20447:         else if MatchesMask(sl[I], '/? DONE (#?#)*:*') then
20448:             BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
20449:         else if MatchesMask(sl[I], '/?.TODO*:*)' then
20450:             BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
20451:         else if MatchesMask(sl[I], '/?.*DONE*:*)' then
20452:             BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
20453:         Inc(I);
20454:     end;
20455:
20456: //-----
20457: //*****mX4 Public Tools API *****
20458: //-----
20459:     file : unit uPSI_fMain.pas;                                {$OTAP} Open Tools API Catalog
20460: // Those functions concern the editor and preprocessor, all of the IDE
20461: Example: Call it with maxform1.InfoClick(self)
20462: Note: Call all Methods with maxForm1., e.g.:
20463:         maxForm1.ShellStyle1Click(self);
20464:
20465: procedure SIRegister_fMain(CL: TPSPascalCompiler);
20466: begin
20467:     Const('BYTECODE','String 'bytecode.txt'
20468:     Const('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT')
20469:     Const('PSMODEL','String PS Modelfiles (*.uc)|*.UC
20470:     Const('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS
20471:     Const('PSINC','String PS Includes (*.inc)|*.INC
20472:     Const('DEFFILENAME','String 'firstdemo.txt
20473:     Const('DEFINIFILE','String 'maxboxdef.ini
20474:     Const('EXCEPTLOGFILE','String 'maxboxerrorlog.txt
20475:     Const('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt
20476:     Const('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf
20477:     Const('ALLOBJECTSLIST','String 'docs\VCL.pdf
20478:     Const('ALLRESOURCELIST','String 'docs\upsi_allresourceclist.txt
20479:     Const('ALLUNITLIST','String 'docs\maxbox3_9.xml')
20480:     Const('INCLUDEBOX','String 'pas_includebox.inc
20481:     Const('BOOTSCRIPT','String 'maxbootscript.txt
20482:     Const('MBVERSION','String '3.9.9.101
20483:     Const('VERSION','String '3.9.9.101
20484:     Const('MBVER','String '399
20485:     Const('MBVERI','Integer'(399);
20486:     Const('MBVERIALL','Integer'(399101);
20487:     Const('EXENAME','String 'maxbox3.exe
20488:     Const('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
20489:     Const('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
20490:     Const('MXVERSIONFILE2','String 'http://www.softwareschule.ch/maxvfile2.txt
20491:     Const('MXINTERNETCHECK','String 'www.ask.com
20492:     Const('MXMAIL','String 'max@kleiner.com
20493:     Const('TAB','Char #$09);
20494:     Const('CODECOMPLETION','String 'bds_delphi.dci
20495:     SIRegister_TMaxForm1(CL);
20496: end;
20497:
20498:     with FindClass('TForm'),'TMaxForm1') do begin
20499:         memo2, 'TMemo', iptrw;
20500:         memo1, 'TSynMemo', iptrw;
20501:         CB1SCList', 'TComboBox', iptrw';
20502:         mxNavigator', 'TComboBox', iptrw';
20503:         IPHost', 'string', iptrw';
20504:         IPPort', 'integer', iptrw';
20505:         COMPort', 'integer', iptrw';      //3.9.6.4
20506:         Splitter1', 'TSplitter', iptrw';
20507:         PSScript', 'TPSScript', iptrw';
20508:         PSDllPlugin', 'TPSDllPlugin', iptrw';
20509:         MainMenuItem', 'TMainMenu', iptrw';
20510:         Program1', 'TMenuItem', iptrw';
20511:         Compile1', 'TMenuItem', iptrw';
20512:         File1', 'TMenuItem', iptrw';
20513:         open1', 'TMenuItem', iptrw';
20514:         Save2', 'TMenuItem', iptrw';
20515:         Options1', 'TMenuItem', iptrw';
20516:         Savebefore1', 'TMenuItem', iptrw';
20517:         Largefont1', 'TMenuItem', iptrw';
20518:         sBytecode1', 'TMenuItem', iptrw);

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20519: Saveas3', 'TMenuItem', iptrw);
20520: Clear1', 'TMenuItem', iptrw);
20521: Slinenumbers1', 'TMenuItem', iptrw);
20522: About1', 'TMenuItem', iptrw);
20523: Search1', 'TMenuItem', iptrw);
20524: SynPasSyn1', 'TSynPasSyn', iptrw);
20525: memo1', 'TSynMemo', iptrw);
20526: SynEditSearch1', 'TSynEditSearch', iptrw);
20527: WordWrap1', 'TMenuItem', iptrw);
20528: XPMManifest1', 'TXPMManifest', iptrw);
20529: SearchNext1', 'TMenuItem', iptrw);
20530: Replace1', 'TMenuItem', iptrw);
20531: PSImport_Controls1', 'TPSImport_Controls', iptrw);
20532: PSImport_Classes1', 'TPSImport_Classes', iptrw);
20533: ShowInclude1', 'TMenuItem', iptrw);
20534: SynEditPrint1', 'TSynEditPrint', iptrw);
20535: Printout1', 'TMenuItem', iptrw);
20536: mnPrintColors1', 'TMenuItem', iptrw);
20537: dlgFilePrint', 'TPrintDialog', iptrw);
20538: dlgPrintFont1', 'TFontDialog', iptrw);
20539: mnuPrintFont1', 'TMenuItem', iptrw);
20540: Include1', 'TMenuItem', iptrw);
20541: CodeCompletionList1', 'TMenuItem', iptrw);
20542: IncludeList1', 'TMenuItem', iptrw);
20543: ImageList1', 'TImageList', iptrw);
20544: ImageList2', 'TImageList', iptrw);
20545: CoolBar1', 'TCoolBar', iptrw);
20546: ToolBar1', 'TToolBar', iptrw);
20547: btnLoad', 'TToolButton', iptrw);
20548: ToolButton2', 'TToolButton', iptrw);
20549: btnFind', 'TToolButton', iptrw);
20550: btnCompile', 'TToolButton', iptrw);
20551: btnTrans', 'TToolButton', iptrw);
20552: btnUseCase', 'TToolButton', iptrw); //3.8
20553: toolbtnTutorial', 'TToolButton', iptrw);
20554: btn6res', 'TToolButton', iptrw);
20555: ToolButton5', 'TToolButton', iptrw);
20556: ToolButton1', 'TToolButton', iptrw);
20557: ToolButton3', 'TToolButton', iptrw);
20558: statusBar1', 'TStatusBar', iptrw);
20559: SaveOutput1', 'TMenuItem', iptrw);
20560: ExportClipboard1', 'TMenuItem', iptrw);
20561: Close1', 'TMenuItem', iptrw);
20562: Manual1', 'TMenuItem', iptrw);
20563: About2', 'TMenuItem', iptrw);
20564: loadLastfile1', 'TMenuItem', iptrw);
20565: imgLogo', 'TImage', iptrw);
20566: cedebug', 'TPSScriptDebugger', iptrw);
20567: debugPopupMenu1', 'TPopupMenu', iptrw);
20568: BreakPointMenu', 'TMenuItem', iptrw);
20569: Decompile1', 'TMenuItem', iptrw);
20570: StepIn1', 'TMenuItem', iptrw);
20571: StepOut1', 'TMenuItem', iptrw);
20572: Reset1', 'TMenuItem', iptrw);
20573: DebugRun1', 'TMenuItem', iptrw);
20574: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
20575: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
20576: PSImport_Forms1', 'TPSImport_Forms', iptrw);
20577: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
20578: tutorial4', 'TMenuItem', iptrw);
20579: ExporttoClipboard1', 'TMenuItem', iptrw);
20580: ImportfromClipboard1', 'TMenuItem', iptrw);
20581: N4', 'TMenuItem', iptrw);
20582: N5', 'TMenuItem', iptrw);
20583: N6', 'TMenuItem', iptrw);
20584: ImportfromClipboard2', 'TMenuItem', iptrw);
20585: tutorial1', 'TMenuItem', iptrw);
20586: N7', 'TMenuItem', iptrw);
20587: ShowSpecChars1', 'TMenuItem', iptrw);
20588: OpenDirectory1', 'TMenuItem', iptrw);
20589: procMess', 'TMenuItem', iptrw);
20590: btnUseCase', 'TToolButton', iptrw);
20591: ToolButton7', 'TToolButton', iptrw);
20592: EditFont1', 'TMenuItem', iptrw);
20593: UseCase1', 'TMenuItem', iptrw);
20594: tutorial21', 'TMenuItem', iptrw);
20595: OpenUseCase1', 'TMenuItem', iptrw);
20596: PSImport_DB1', 'TPSImport_DB', iptrw);
20597: tutorial31', 'TMenuItem', iptrw);
20598: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
20599: HTMLSyntax1', 'TMenuItem', iptrw);
20600: ShowInterfaces1', 'TMenuItem', iptrw);
20601: Tutorials5', 'TMenuItem', iptrw);
20602: AllFunctionsList1', 'TMenuItem', iptrw);
20603: ShowLastException1', 'TMenuItem', iptrw);
20604: PlayMP31', 'TMenuItem', iptrw);
20605: SynTeXSyn1', 'TSynTeXSyn', iptrw);
20606: texSyntax1', 'TMenuItem', iptrw);
20607: N8', 'TMenuItem', iptrw);
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20608: GetEMails1', 'TMenuItem', iptrw);
20609: SynCppSyn1', 'TSynCppSyn', iptrw);
20610: CSyntax1', 'TMenuItem', iptrw);
20611: Tutorial6', 'TMenuItem', iptrw);
20612: New1', 'TMenuItem', iptrw);
20613: AllObjectsList1', 'TMenuItem', iptrw);
20614: LoadBytecode1', 'TMenuItem', iptrw);
20615: CipherFile1', 'TMenuItem', iptrw);
20616: N9', 'TMenuItem', iptrw);
20617: N10', 'TMenuItem', iptrw);
20618: Tutorial11', 'TMenuItem', iptrw);
20619: Tutorial71', 'TMenuItem', iptrw);
20620: UpdateService1', 'TMenuItem', iptrw);
20621: PascalSchool1', 'TMenuItem', iptrw);
20622: Tutorial81', 'TMenuItem', iptrw);
20623: DelphiSite1', 'TMenuItem', iptrw);
20624: Output1', 'TMenuItem', iptrw);
20625: TerminalStyle1', 'TMenuItem', iptrw);
20626: ReadOnly1', 'TMenuItem', iptrw);
20627: ShellStyle1', 'TMenuItem', iptrw);
20628: BigScreen1', 'TMenuItem', iptrw);
20629: Tutorial91', 'TMenuItem', iptrw);
20630: SaveOutput2', 'TMenuItem', iptrw);
20631: N11', 'TMenuItem', iptrw);
20632: SaveScreenshot', 'TMenuItem', iptrw);
20633: Tutorial101', 'TMenuItem', iptrw);
20634: SQLSyntax1', 'TMenuItem', iptrw);
20635: SynSQLSyn1', 'TSynSQLSyn', iptrw);
20636: Console1', 'TMenuItem', iptrw);
20637: SynXMLSyn1', 'TSynXMLSyn', iptrw);
20638: XMLSyntax1', 'TMenuItem', iptrw);
20639: ComponentCount1', 'TMenuItem', iptrw);
20640: NewInstance1', 'TMenuItem', iptrw);
20641: toolbtnTutorial', 'TToolButton', iptrw);
20642: Memory1', 'TMenuItem', iptrw);
20643: SynJavaSyn1', 'TSynJavaSyn', iptrw);
20644: JavaSyntax1', 'TMenuItem', iptrw);
20645: SyntaxCheck1', 'TMenuItem', iptrw);
20646: Tutorial10Statistics1', 'TMenuItem', iptrw);
20647: ScriptExplorer1', 'TMenuItem', iptrw);
20648: FormOutput1', 'TMenuItem', iptrw);
20649: ArduinoDump1', 'TMenuItem', iptrw);
20650: AndroidDump1', 'TMenuItem', iptrw);
20651: GotoEnd1', 'TMenuItem', iptrw);
20652: AllResourceList1', 'TMenuItem', iptrw);
20653: ToolButton4', 'TToolButton', iptrw);
20654: btn6res', 'TToolButton', iptrw);
20655: Tutorial11Forms1', 'TMenuItem', iptrw);
20656: Tutorial12SQL1', 'TMenuItem', iptrw);
20657: ResourceExplore1', 'TMenuItem', iptrw);
20658: Infol', 'TMenuItem', iptrw);
20659: N12', 'TMenuItem', iptrw);
20660: CryptoBox1', 'TMenuItem', iptrw);
20661: Tutorial13Ciphering1', 'TMenuItem', iptrw);
20662: CipherFile2', 'TMenuItem', iptrw);
20663: N13', 'TMenuItem', iptrw);
20664: ModulesCount1', 'TMenuItem', iptrw);
20665: AddOns2', 'TMenuItem', iptrw);
20666: N4GewinntGame1', 'TMenuItem', iptrw);
20667: DocuforAddOns1', 'TMenuItem', iptrw);
20668: Tutorial14Async1', 'TMenuItem', iptrw);
20669: Lessons15Review1', 'TMenuItem', iptrw);
20670: SynPHPSyn1', 'TSynPHPSyn', iptrw);
20671: PHPSyntax1', 'TMenuItem', iptrw);
20672: Breakpoint1', 'TMenuItem', iptrw);
20673: SerialRS2321', 'TMenuItem', iptrw);
20674: N14', 'TMenuItem', iptrw);
20675: SynCSSyn1', 'TSynCSSyn', iptrw);
20676: CSyntax2', 'TMenuItem', iptrw);
20677: Calculator1', 'TMenuItem', iptrw);
20678: btnSerial', 'TToolButton', iptrw);
20679: ToolButton8', 'TToolButton', iptrw);
20680: Tutorial151', 'TMenuItem', iptrw);
20681: N15', 'TMenuItem', iptrw);
20682: N16', 'TMenuItem', iptrw);
20683: ControlBar1', 'TControlBar', iptrw);
20684: ToolBar2', 'TToolBar', iptrw);
20685: BtnOpen', 'TToolButton', iptrw);
20686: BtnSave', 'TToolButton', iptrw);
20687: BtnPrint', 'TToolButton', iptrw);
20688: BtnColors', 'TToolButton', iptrw);
20689: BtnClassReport', 'TToolButton', iptrw);
20690: BtnRotateRight', 'TToolButton', iptrw);
20691: BtnFullSize', 'TToolButton', iptrw);
20692: BtnFitToWindowSize', 'TToolButton', iptrw);
20693: BtnZoomMinus', 'TToolButton', iptrw);
20694: BtnZoomPlus', 'TToolbutton', iptrw);
20695: Panel1', 'TPanel', iptrw);
20696: LabelBrettgroesse', TLabel', iptrw);
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20697: CB1SCList', 'TComboBox', iptrw);
20698: ImageListNormal', 'TImageList', iptrw);
20699: spbtnexplore', 'TSpeedButton', iptrw);
20700: spbtnexample', 'TSpeedButton', iptrw);
20701: spbsaveas', 'TSpeedButton', iptrw);
20702: imglogobox', 'TImage', iptrw);
20703: EnlargeFont1', 'TMenuItem', iptrw);
20704: EnlargeFont2', 'TMenuItem', iptrw);
20705: ShrinkFont1', 'TMenuItem', iptrw);
20706: ThreadDemol', 'TMenuItem', iptrw);
20707: HEXEditor1', 'TMenuItem', iptrw);
20708: HEXView1', 'TMenuItem', iptrw);
20709: HEXInspect1', 'TMenuItem', iptrw);
20710: SynExporterHTML1', 'TSynExporterHTML', iptrw);
20711: ExporttoHTML1', 'TMenuItem', iptrw);
20712: ClassCount1', 'TMenuItem', iptrw);
20713: HTMLOutput1', 'TMenuItem', iptrw);
20714: HEXEditor2', 'TMenuItem', iptrw);
20715: Minesweeper1', 'TMenuItem', iptrw);
20716: N17', 'TMenuItem', iptrw);
20717: PicturePuzzle1', 'TMenuItem', iptrw);
20718: sbvc1help', 'TSpeedButton', iptrw);
20719: DependencyWalker1', 'TMenuItem', iptrw);
20720: WebScanner1', 'TMenuItem', iptrw);
20721: View1', 'TMenuItem', iptrw);
20722: mnToolbar1', 'TMenuItem', iptrw);
20723: mnStatusbar2', 'TMenuItem', iptrw);
20724: mnConsole2', 'TMenuItem', iptrw);
20725: mnCoolbar2', 'TMenuItem', iptrw);
20726: mnSplitter2', 'TMenuItem', iptrw);
20727: WebServer1', 'TMenuItem', iptrw);
20728: Tutorial17Server1', 'TMenuItem', iptrw);
20729: Tutorial18Arduino1', 'TMenuItem', iptrw);
20730: SynPerlSyn1', 'TSynPerlSyn', iptrw);
20731: PerlSyntax1', 'TMenuItem', iptrw);
20732: SynPythonSyn1', 'TSynPythonSyn', iptrw);
20733: PythonSyntax1', 'TMenuItem', iptrw);
20734: DMathLibrary1', 'TMenuItem', iptrw);
20735: IntfNavigator1', 'TMenuItem', iptrw);
20736: EnlargeFontConsole1', 'TMenuItem', iptrw);
20737: ShrinkFontConsole1', 'TMenuItem', iptrw);
20738: SetInterfaceList1', 'TMenuItem', iptrw);
20739: popintfList', 'TPopUpMenu', iptrw);
20740: intfAdd1', 'TMenuItem', iptrw);
20741: intfDelete1', 'TMenuItem', iptrw);
20742: intfRefactor1', 'TMenuItem', iptrw);
20743: Defactor1', 'TMenuItem', iptrw);
20744: Tutorial19COMArduino1', 'TMenuItem', iptrw);
20745: Tutorial20Regex', 'TMenuItem', iptrw);
20746: N18', 'TMenuItem', iptrw);
20747: ManualE1', 'TMenuItem', iptrw);
20748: FullTextFinder1', 'TMenuItem', iptrw);
20749: Move1', 'TMenuItem', iptrw);
20750: FractalDemo1', 'TMenuItem', iptrw);
20751: Tutorial21Android1', 'TMenuItem', iptrw);
20752: Tutorial0Function1', 'TMenuItem', iptrw);
20753: SimuLogBox1', 'TMenuItem', iptrw);
20754: OpenExamples1', 'TMenuItem', iptrw);
20755: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
20756: JavaScriptSyntax1', 'TMenuItem', iptrw);
20757: Halt1', 'TMenuItem', iptrw);
20758: CodeSearch1', 'TMenuItem', iptrw);
20759: SynRubySyn1', 'TSynRubySyn', iptrw);
20760: RubySyntax1', 'TMenuItem', iptrw);
20761: Undo1', 'TMenuItem', iptrw);
20762: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
20763: LinuxShellScript1', 'TMenuItem', iptrw);
20764: Rename1', 'TMenuItem', iptrw);
20765: spdcodeseach', 'TSpeedButton', iptrw);
20766: Preview1', 'TMenuItem', iptrw);
20767: Tutorial22Services1', 'TMenuItem', iptrw);
20768: Tutorial23RealTime1', 'TMenuItem', iptrw);
20769: Configuration1', 'TMenuItem', iptrw);
20770: MP3Player1', 'TMenuItem', iptrw);
20771: DLLSpy1', 'TMenuItem', iptrw);
20772: SynURIOpener1', 'TSynURIOpener', iptrw);
20773: SynURISyn1', 'TSynURISyn', iptrw);
20774: URILinksClicks1', 'TMenuItem', iptrw);
20775: EditReplace1', 'TMenuItem', iptrw);
20776: GotoLine1', 'TMenuItem', iptrw);
20777: ActiveLineColor1', 'TMenuItem', iptrw);
20778: ConfigFile1', 'TMenuItem', iptrw);
20779: SortIntlList', 'TMenuItem', iptrw);
20780: Redo1', 'TMenuItem', iptrw);
20781: Tutorial24CleanCode1', 'TMenuItem', iptrw);
20782: Tutorial25Configuration1', 'TMenuItem', iptrw);
20783: IndentSelection1', 'TMenuItem', iptrw);
20784: UnindentSection1', 'TMenuItem', iptrw);
20785: SkyStyle1', 'TMenuItem', iptrw);
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20786:   N19', 'TMenuItem', iptrw);
20787: CountWords1', 'TMenuItem', iptrw);
20788: imbookmarkimages', 'TImageList', iptrw);
20789: Bookmark11', 'TMenuItem', iptrw);
20790: N20', 'TMenuItem', iptrw);
20791: Bookmark21', 'TMenuItem', iptrw);
20792: Bookmark31', 'TMenuItem', iptrw);
20793: Bookmark41', 'TMenuItem', iptrw);
20794: SynMultiSyn1', 'TSynMultiSyn', iptrw);
20795:
20796: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TSPSPascalCompiler)
20797: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEexec; x:TPSRuntimeClassImporter);
20798: Procedure PSSScriptCompile( Sender : TPSScript)
20799: Procedure Compile1Click( Sender : TObject)
20800: Procedure PSSScriptExecute( Sender : TPSScript)
20801: Procedure open1Click( Sender : TObject)
20802: Procedure Save2Click( Sender : TObject)
20803: Procedure Savebefore1Click( Sender : TObject)
20804: Procedure Largefont1Click( Sender : TObject)
20805: Procedure FormActivate( Sender : TObject)
20806: Procedure SBytecode1Click( Sender : TObject)
20807: Procedure FormKeyPress( Sender : TObject; var Key : Char)
20808: Procedure Saveas3Click( Sender : TObject)
20809: Procedure Clear1Click( Sender : TObject)
20810: Procedure Slinenumbers1Click( Sender : TObject)
20811: Procedure About1Click( Sender : TObject)
20812: Procedure Search1Click( Sender : TObject)
20813: Procedure FormCreate( Sender : TObject)
20814: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
20815:                                var Action : TSynReplaceAction)
20816: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
20817: Procedure WordWrap1Click( Sender : TObject)
20818: Procedure SearchNext1Click( Sender : TObject)
20819: Procedure Replace1Click( Sender : TObject)
20820: Function PSSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FName,Output:String):Bool;
20821: Procedure ShowInclude1Click( Sender : TObject)
20822: Procedure Printout1Click( Sender : TObject)
20823: Procedure mnuPrintFont1Click( Sender : TObject)
20824: Procedure IncludelClick( Sender : TObject)
20825: Procedure FormDestroy( Sender : TObject)
20826: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
20827: Procedure UpdateView1Click( Sender : TObject)
20828: Procedure CodeCompletionlist1Click( Sender : TObject)
20829: Procedure SaveOutput1Click( Sender : TObject)
20830: Procedure ExportClipboard1Click( Sender : TObject)
20831: Procedure Close1Click( Sender : TObject)
20832: Procedure Manual1Click( Sender : TObject)
20833: Procedure LoadLastFile1Click( Sender : TObject)
20834: Procedure Memo1Change( Sender : TObject)
20835: Procedure Decompile1Click( Sender : TObject)
20836: Procedure StepInto1Click( Sender : TObject)
20837: Procedure StepOut1Click( Sender : TObject)
20838: Procedure Reset1Click( Sender : TObject)
20839: Procedure cedebugAfterExecute( Sender : TPSScript)
20840: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
20841: Procedure cedebugCompile( Sender : TPSScript)
20842: Procedure cedebugExecute( Sender : TPSScript)
20843: Procedure cedebugIdle( Sender : TObject)
20844: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
20845: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
20846: Procedure BreakPointMenuClick( Sender : TObject)
20847: Procedure DebugRun1Click( Sender : TObject)
20848: Procedure tutorial4Click( Sender : TObject)
20849: Procedure ImportfromClipboard1Click( Sender : TObject)
20850: Procedure ImportfromClipboard2Click( Sender : TObject)
20851: Procedure tutorial1Click( Sender : TObject)
20852: Procedure ShowSpecChars1Click( Sender : TObject)
20853: Procedure StatusBar1DblClick( Sender : TObject)
20854: Procedure PSSScriptLine( Sender : TObject)
20855: Procedure OpenDirectory1Click( Sender : TObject)
20856: Procedure procMessClick( Sender : TObject)
20857: Procedure tbtnUseCaseClick( Sender : TObject)
20858: Procedure EditFont1Click( Sender : TObject)
20859: Procedure tutorial21Click( Sender : TObject)
20860: Procedure tutorial31Click( Sender : TObject)
20861: Procedure HTMLSyntax1Click( Sender : TObject)
20862: Procedure ShowInterfaces1Click( Sender : TObject)
20863: Procedure Tutorial5Click( Sender : TObject)
20864: Procedure ShowLastException1Click( Sender : TObject)
20865: Procedure PlayMP31Click( Sender : TObject)
20866: Procedure AllFunctionsList1Click( Sender : TObject)
20867: Procedure texSyntax1Click( Sender : TObject)
20868: Procedure GetEMails1Click( Sender : TObject)
20869: procedure DelphiSite1Click(Sender: TObject);
20870: procedure TerminalStyle1Click(Sender: TObject);
20871: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
20872: procedure Shellstyle1Click(Sender: TObject);
20873: procedure Console1Click(Sender: TObject); //3.2
20874: procedure BigScreen1Click(Sender: TObject);

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20875: procedure Tutorial91Click(Sender: TObject);
20876: procedure SaveScreenshotClick(Sender: TObject);
20877: procedure Tutorial101Click(Sender: TObject);
20878: procedure SQLSyntax1Click(Sender: TObject);
20879: procedure XMLSyntax1Click(Sender: TObject);
20880: procedure ComponentCount1Click(Sender: TObject);
20881: procedure NewInstance1Click(Sender: TObject);
20882: procedure CSyntax1Click(Sender: TObject);
20883: procedure Tutorial6Click(Sender: TObject);
20884: procedure New1Click(Sender: TObject);
20885: procedure AllObjectsList1Click(Sender: TObject);
20886: procedure LoadBytecode1Click(Sender: TObject); //V3.5
20887: procedure CipherFile1Click(Sender: TObject);
20888: procedure NewInstance1Click(Sender: TObject);
20889: procedure toolbarTutorialClick(Sender: TObject);
20890: procedure Memory1Click(Sender: TObject);
20891: procedure JavaSyntax1Click(Sender: TObject);
20892: procedure SyntaxCheck1Click(Sender: TObject);
20893: procedure ScriptExplorer1Click(Sender: TObject);
20894: procedure FormOutput1Click(Sender: TObject); //V3.6
20895: procedure GotoEnd1Click(Sender: TObject);
20896: procedure AllResourceList1Click(Sender: TObject);
20897: procedure tbtn6resClick(Sender: TObject); //V3.7
20898: procedure Info1Click(Sender: TObject);
20899: procedure Tutorial10Statistics1Click(Sender: TObject);
20900: procedure Tutorial11Forms1Click(Sender: TObject);
20901: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
20902: procedure ResourceExplore1Click(Sender: TObject);
20903: procedure Info1Click(Sender: TObject);
20904: procedure CryptoBox1Click(Sender: TObject);
20905: procedure ModulesCount1Click(Sender: TObject);
20906: procedure N4GewinntGame1Click(Sender: TObject);
20907: procedure PHPSyntax1Click(Sender: TObject);
20908: procedure SerialRS2321Click(Sender: TObject);
20909: procedure CSyntax2Click(Sender: TObject);
20910: procedure Calculator1Click(Sender: TObject);
20911: procedure Tutorial13Ciphering1Click(Sender: TObject);
20912: procedure Tutorial14Async1Click(Sender: TObject);
20913: procedure PHPSyntax1Click(Sender: TObject);
20914: procedure BtnZoomPlusClick(Sender: TObject);
20915: procedure BtnZoomMinusClick(Sender: TObject);
20916: procedure btnClassReportClick(Sender: TObject);
20917: procedure ThreadDemo1Click(Sender: TObject);
20918: procedure HEXView1Click(Sender: TObject);
20919: procedure ExporttoHTML1Click(Sender: TObject);
20920: procedure Minesweeper1Click(Sender: TObject);
20921: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
20922: procedure sbvc1helpClick(Sender: TObject);
20923: procedure DependencyWalker1Click(Sender: TObject);
20924: procedure CB1SCLListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
20925: procedure WebScanner1Click(Sender: TObject);
20926: procedure mnToolbar1Click(Sender: TObject);
20927: procedure mnStatusbar2Click(Sender: TObject);
20928: procedure mnConsole2Click(Sender: TObject);
20929: procedure mnCoolbar2Click(Sender: TObject);
20930: procedure mnSplitter2Click(Sender: TObject);
20931: procedure WebServer1Click(Sender: TObject);
20932: procedure PerlSyntax1Click(Sender: TObject);
20933: procedure PythonSyntax1Click(Sender: TObject);
20934: procedure DMathLibrary1Click(Sender: TObject);
20935: procedure IntfNavigator1Click(Sender: TObject);
20936: procedure FullTextFinder1Click(Sender: TObject);
20937: function AppName: string;
20938: function ScriptName: string;
20939: function LastName: string;
20940: procedure FractalDemo1Click(Sender: TObject);
20941: procedure SimuLogBox1Click(Sender: TObject);
20942: procedure OpenExamples1Click(Sender: TObject);
20943: procedure Halt1Click(Sender: TObject);
20944: procedure Stop;
20945: procedure CodeSearch1Click(Sender: TObject);
20946: procedure RubySyntax1Click(Sender: TObject);
20947: procedure Undo1Click(Sender: TObject);
20948: procedure LinuxShellScript1Click(Sender: TObject);
20949: procedure WebScannerDirect(urls: string);
20950: procedure WebScanner(urls: string);
20951: procedure LoadInterfaceList2;
20952: procedure DLLSpy1Click(Sender: TObject);
20953: procedure Memo1DblClick(Sender: TObject);
20954: procedure URILinksClicks1Click(Sender: TObject);
20955: procedure GotoLine1Click(Sender: TObject);
20956: procedure ConfigFile1Click(Sender: TObject);
20957: Procedure Sort1IntlistClick( Sender : TObject )
20958: Procedure Redo1Click( Sender : TObject )
20959: Procedure Tutorial24CleanCode1Click( Sender : TObject )
20960: Procedure IndentSelection1Click( Sender : TObject )
20961: Procedure UnindentSection1Click( Sender : TObject )
20962: Procedure SkyStyle1Click( Sender : TObject )
20963: Procedure CountWords1Click( Sender : TObject )
```

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20964: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark)
20965: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton/X,Y,Line:Integer;Mark:TSynEditMark);
20966: Procedure Bookmark11Click( Sender : TObject)
20967: Procedure Bookmark21Click( Sender : TObject)
20968: Procedure Bookmark31Click( Sender : TObject)
20969: Procedure Bookmark41Click( Sender : TObject)
20970: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
20971: 'STATMemoryReport', 'boolean', iptrw);
20972: 'IPPort', 'integer', iptrw);
20973: 'COMPPort', 'integer', iptrw);
20974: 'lbintflist', 'TListBox', iptrw);
20975: Function GetStatChange : boolean
20976: Procedure SetStatChange( vstat : boolean)
20977: Function GetActFileName : string
20978: Procedure SetActFileName( vname : string)
20979: Function GetLastFileName : string
20980: Procedure SetLastFileName( vname : string)
20981: Procedure WebScannerDirect( urls : string)
20982: Procedure LoadInterfaceList2
20983: Function GetStatExecuteShell : boolean
20984: Procedure DoEditorExecuteCommand( EditorCommand : word)
20985: function GetActiveLineColor: TColor
20986: procedure SetActiveLineColor(acolor: TColor)
20987: procedure ScriptListbox1Click(Sender: TObject);
20988: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
20989: procedure EnlargeGutter1Click(Sender: TObject);
20990: procedure Tetris1Click(Sender: TObject);
20991: procedure ToDoList1Click(Sender: TObject);
20992: procedure ProcessList1Click(Sender: TObject);
20993: procedure MetricReport1Click(Sender: TObject);
20994: procedure ProcessList1Click(Sender: TObject);
20995: procedure TCPSockets1Click(Sender: TObject);
20996: procedure ConfigUpdate1Click(Sender: TObject);
20997: procedure ADOWorkbench1Click(Sender: TObject);
20998: procedure SocketServer1Click(Sender: TObject);
20999: procedure FormDemo1Click(Sender: TObject);
21000: procedure Richedit1Click(Sender: TObject);
21001: procedure SimpleBrowser1Click(Sender: TObject);
21002: procedure DOSShell1Click(Sender: TObject);
21003: procedure SynExport1Click(Sender: TObject);
21004: procedure ExporttoRTF1Click(Sender: TObject);
21005: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
21006: procedure SOAPTester1Click(Sender: TObject);
21007: procedure Sniffer1Click(Sender: TObject);
21008: procedure AutoDetectSyntax1Click(Sender: TObject);
21009: procedure FPPlot1Click(Sender: TObject);
21010: procedure PassStyle1Click(Sender: TObject);
21011: procedure Tutorial183RGBLED1Click(Sender: TObject);
21012: procedure Reversi1Click(Sender: TObject);
21013: procedure Manualmaxbox1Click(Sender: TObject);
21014: procedure BlaisePascalMagazine1Click(Sender: TObject);
21015: procedure AddToDo1Click(Sender: TObject);
21016: procedure CreateGUID1Click(Sender: TObject);
21017: procedure Tutorial27XML1Click(Sender: TObject);
21018: procedure CreateDLLStub1Click(Sender: TObject);
21019: procedure Tutorial28DLL1Click(Sender: TObject);');
21020: procedure ResetKeyPressed;');
21021: procedure KeyPressedFalse;
21022: procedure FileChanges1Click(Sender: TObject);');
21023: procedure OpenGLTry1Click(Sender: TObject);');
21024: procedure AllUnitList1Click(Sender: TObject);');
21025: procedure Tutorial29UMLClick(Sender: TObject);
21026: procedure CreateHeader1Click(Sender: TObject);
21027: procedure Oscilloscope1Click(Sender: TObject);');
21028: procedure Tutorial30WOT1Click(Sender: TObject);');
21029: procedure GetWebScript1Click(Sender: TObject);');
21030: procedure Checkers1Click(Sender: TObject);');
21031: procedure TaskMgr1Click(Sender: TObject);');
21032: procedure WebCam1Click(Sender: TObject);');
21033: procedure Tutorial31Closure1Click(Sender: TObject);');
21034: procedure GEOMapView1Click(Sender: TObject);');
21035: procedure Run1Click(Sender: TObject);
21036: MaxForm1.GPSSatView1Click, 'GPSSatView1Click');
21037: MaxForm1.N3DLab1Click, 'N3DLab1Click');
21038:
21039: //-----
21040: //*****mX4 Editor SynEdit Tools API *****
21041: //-----
21042: procedure SIRegister_TCustomSynEdit(CL: TPSCompiler);
21043: begin
21044:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
21045:     with FindClass('TCustomControl','TCustomSynEdit') do begin
21046:       Constructor Create(AOwner: TComponent)
21047:       SelStart', 'Integer', iptrw);
21048:       SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
21049:       Procedure UpdateCaret
21050:       Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
21051:       Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
21052:       Procedure BeginUndoBlock

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21053: Procedure BeginUpdate
21054: Function CaretInView : Boolean
21055: Function CharIndexToRowCol( Index : integer ) : TBufferCoord
21056: Procedure Clear
21057: Procedure ClearAll
21058: Procedure ClearBookMark( BookMark : Integer )
21059: Procedure ClearSelection
21060: Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
21061: Procedure ClearUndo
21062: Procedure CopyToClipboard
21063: Procedure CutToClipboard
21064: Procedure DoCopyToClipboard( const SText : string )
21065: Procedure EndUndoBlock
21066: Procedure EndUpdate
21067: Procedure EnsureCursorPosVisible
21068: Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
21069: Procedure FindMatchingBracket
21070: Function GetMatchingBracket : TBufferCoord
21071: Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
21072: Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
21073: Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
21074: Function GetHighlighterAttriAtRowCol( const XY : TBufferCoord; var Token : string; var Attr
21075: : TSynHighlighterAttributes ) : boolean
21076: Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes ):boolean
21077: Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
21078: Function GetWordAtRowCol( const XY : TBufferCoord ) : string
21079: Procedure GotoBookMark( BookMark : Integer )
21080: Procedure GotoLineAndCenter( ALine : Integer )
21081: Function IdentChars : TSynIdentChars
21082: Procedure InvalidateGutter
21083: Procedure InvalidateGutterLine( aLine : integer )
21084: Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
21085: Procedure InvalidateLine( Line : integer )
21086: Procedure InvalidateLines( FirstLine, LastLine : integer )
21087: Procedure InvalidateSelection
21088: Function IsBookmark( BookMark : integer ) : boolean
21089: Function IsPointInSelection( const Value : TBufferCoord ) : boolean
21090: Procedure LockUndo
21091: Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
21092: Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
21093: Function LineToRow( aLine : integer ) : integer
21094: Function RowToLine( aRow : integer ) : integer
21095: Function NextWordPos : TBufferCoord
21096: Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
21097: Procedure PasteFromClipboard
21098: Function WordStart : TBufferCoord
21099: Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
21100: Function WordEnd : TBufferCoord
21101: Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
21102: Function PrevWordPos : TBufferCoord
21103: Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
21104: Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
21105: Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
21106: Procedure Redo
21107: Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer );
21108: Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
21109: Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
21110: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions ) : integer
21111: Procedure SelectAll
21112: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
21113: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
21114: Procedure SetDefaultKeystrokes
21115: Procedure SetSelWord
21116: Procedure SetWordBlock( Value : TBufferCoord )
21117: Procedure Undo
21118: Procedure UnlockUndo
21119: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
21120: Procedure AddKeyUpHandler( aHandler : TKeyEvent )
21121: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
21122: Procedure AddKeyDownHandler( aHandler : TKeyEvent )
21123: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
21124: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
21125: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
21126: Procedure AddFocusControl( aControl : TWinControl )
21127: Procedure RemoveFocusControl( aControl : TWinControl )
21128: Procedure AddMouseDownHandler( aHandler : TMouseEvent )
21129: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
21130: Procedure AddMouseUpHandler( aHandler : TMouseEvent )
21131: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
21132: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent )
21133: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent )
21134: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
21135: Procedure RemoveLinesPointer
21136: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
21137: Procedure UnHookTextBuffer
21138: BlockBegin', 'TBufferCoord', iptrw);
21139: BlockEnd', 'TBufferCoord', iptrw);
21140: CanPaste', 'Boolean', iptr);
21141:

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21142: CanRedo', 'boolean', iptr);
21143: CanUndo', 'boolean', iptr);
21144: CaretX', 'Integer', iptrw);
21145: CaretY', 'Integer', iptrw);
21146: CaretXY', 'TBufferCoord', iptrw);
21147: ActiveLineColor', 'TColor', iptrw);
21148: DisplayX', 'Integer', iptr);
21149: DisplayY', 'Integer', iptr);
21150: DisplayXY', 'TDisplayCoord', iptr);
21151: DisplayLineCount', 'integer', iptr);
21152: CharsInWindow', 'Integer', iptr);
21153: CharWidth', 'integer', iptr);
21154: Font', 'TFont', iptrw);
21155: GutterWidth', 'Integer', iptr);
21156: Highlighter', 'TSynCustomHighlighter', iptrw);
21157: LeftChar', 'Integer', iptrw);
21158: LineHeight', 'integer', iptr);
21159: LinesInWindow', 'Integer', iptr);
21160: LineText', 'string', iptrw);
21161: Lines', 'TStrings', iptrw);
21162: Marks', 'TSynEditMarkList', iptr);
21163: MaxScrollWidth', 'integer', iptrw);
21164: Modified', 'Boolean', iptrw);
21165: PaintLock', 'Integer', iptr);
21166: ReadOnly', 'Boolean', iptrw);
21167: SearchEngine', 'TSynEditSearchCustom', iptrw);
21168: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
21169: SelTabBlock', 'Boolean', iptr);
21170: SelTabLine', 'Boolean', iptr);
21171: SelText', 'string', iptrw);
21172: StateFlags', 'TSynStateFlags', iptr);
21173: Text', 'string', iptrw);
21174: TopLine', 'Integer', iptrw);
21175: WordAtCursor', 'string', iptr);
21176: WordAtMouse', 'string', iptr);
21177: UndoList', 'TSynEditUndoList', iptr);
21178: RedoList', 'TSynEditUndoList', iptr);
21179: OnProcessCommand', 'TProcessCommandEvent', iptrw);
21180: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
21181: BorderStyle', 'TSynBorderStyle', iptrw);
21182: ExtraLineSpacing', 'integer', iptrw);
21183: Gutter', 'TSynGutter', iptrw);
21184: HideSelection', 'boolean', iptrw);
21185: InsertCaret', 'TSynEditCaretType', iptrw);
21186: InsertMode', 'boolean', iptrw);
21187: IsScrolling', 'Boolean', iptr);
21188: Keystrokes', 'TSynEditKeyStrokes', iptrw);
21189: MaxUndo', 'Integer', iptrw);
21190: Options', 'TSynEditorOptions', iptrw);
21191: OverwriteCaret', 'TSynEditCaretType', iptrw);
21192: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TCOLOR', iptrw);
21193: ScrollHintColor', 'TCOLOR', iptrw);
21194: ScrollHintFormat', 'TScrollHintFormat', iptrw);
21195: ScrollBars', 'TScrollStyle', iptrw);
21196: SelectedColor', 'TSynSelectedColor', iptrw);
21197: SelectionMode', 'TSynSelectionMode', iptrw);
21198: ActiveSelectionMode', 'TSynSelectionMode', iptrw);
21199: TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
21200: WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
21201: WordWrapGlyph', 'TSynGlyph', iptrw);
21202: OnChange', 'TNotifyEvent', iptrw);
21203: OnClearBookmark', 'TPlaceMarkEvent', iptrw);
21204: OnCommandProcessed', 'TProcessCommandEvent', iptrw);
21205: OnContextHelp', 'TContextHelpEvent', iptrw);
21206: OnDropFiles', 'TDropFilesEvent', iptrw);
21207: OnGutterClick', 'TGutterClickEvent', iptrw);
21208: OnGutterGetText', 'TGutterGetTextEvent', iptrw);
21209: OnGutterPaint', 'TGutterPaintEvent', iptrw);
21210: OnMouseCursor', 'TMouseCursorEvent', iptrw);
21211: OnPaint', 'TPaintEvent', iptrw);
21212: OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
21213: OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
21214: OnReplaceText', 'TReplaceTextEvent', iptrw);
21215: OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
21216: OnStatusChange', 'TStatusChangeEvent', iptrw);
21217: OnPaintTransient', 'TPaintTransient', iptrw);
21218: OnScroll', 'TScrollEvent', iptrw);
21219: end;
21220: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
21221: Function GetPlaceableHighlighters : TSynHighlighterList
21222: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
21223: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
21224: Procedure GetEditorCommandValues( Proc : TGetStrProc)
21225: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
21226: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
21227: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
21228: Function ConvertCodeStringToExtended( AString : String) : String
21229: Function ConvertExtendedToCodeString( AString : String) : String
21230: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand

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21231: Function ConvertCodeStringToCommand( AString : String ) : TSynEditorCommand
21232: Function IndexToEditorCommand( const AIndex : Integer ) : Integer
21233:
21234: TSynEditorOption = (
21235:   eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
21236:   eoAutoIndent,                //Will indent caret on newlines with same amount of leading whitespace as
21237:                           // preceding line
21238:   eoAutoSizeMaxScrollWidth,     //Automatically resizes the MaxScrollWidth property when inserting text
21239:   eoDisableScrollArrows,       //Disables the scroll bar arrow buttons when you can't scroll in that
21240:                           //direction any more
21241:   eoDragDropEditing,          //Allows to select a textblock and drag it in document to another location
21242:   eoDropFiles,                 //Allows the editor accept OLE file drops
21243:   eoEnhanceHomeKey,          //enhances home key positioning, similar to visual studio
21244:   eoEnhanceEndKey,            //enhances End key positioning, similar to JDeveloper
21245:   eoGroupUndo,                 //When undoing/redoing actions,handle all cont.changes same kind in onecall
21246:                           //instead undoing/redoing each command separately
21247:   eoHalfPageScroll,           //By scrolling with page-up/page-down commands,only scroll half page attime
21248:   eoHideShowScrollbars,       //if enabled, then scrollbars will only show if necessary.
21249:   If you have ScrollPasteEOL, //then it the horizontal bar will always be there (it uses MaxLength instead)
21250:   eoKeepCaretX,               //When moving through lines w/o cursor Past EOL, keeps X position of cursor
21251:   eoNoCaret,                  //Makes it so the caret is never visible
21252:   eoNoSelection,              //Disables selecting text
21253:   eoRightMouseMovesCursor,    //When clicking with right mouse for popup menu, moves cursor to location
21254:   eoScrollByOneLess,          //Forces scrolling to be one less
21255:   eoScrollHintFollows,        //The scroll hint follows the mouse when scrolling vertically
21256:   eoScrollPastEof,            //Allows the cursor to go past the end of file marker
21257:   eoScrollPastEol,            //Allows cursor to go past last character into white space at end of a line
21258:   eoShowScrollHint,           //Shows a hint of the visible line numbers when scrolling vertically
21259:   eoShowSpecialChars,         //Shows the special Characters
21260:   eoSmartTabDelete,           //similar to Smart Tabs, but when you delete characters
21261:   eoSmartTabs,                //When tabbing, cursor will go to non-white space character of previous line
21262:   eoSpecialLineDefaultFg,     //disables the foreground text color override using OnSpecialLineColor event
21263:   eoTabIndent,                 //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
21264:   eoTabsToSpaces,              //Converts a tab character to a specified number of space characters
21265:   eoTrimTrailingSpaces,       //Spaces at the end of lines will be trimmed and not saved
21266:
21267: *****Important Editor Short Cuts*****;
21268: Double click to select a word and count words with highlightning.
21269: Triple click to select a line.
21270: CTRL+SHIFT+click to extend a selection.
21271: Drag with the ALT key down to select columns of text !!!
21272: Drag and drop is supported.
21273: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
21274: Type CTRL+A to select all.
21275: Type CTRL+N to set a new line.
21276: Type CTRL+T to delete a line or token. //Tokenizer
21277: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
21278: Type CTRL+Shift+T to add ToDo in line and list.
21279: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
21280: Type CTRL[0..9] to jump or get to bookmarks.
21281: Type Home to position cursor at beginning of current line and End to position it at end of line.
21282: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
21283: Page Up and Page Down work as expected.
21284: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
21285: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
21286:
21287: {$ Short Key Positions Ctrl<A-Z>: }
21288: def
21289:   <A> Select All
21290:   <B> Count Words
21291:   <C> Copy
21292:   <D> Internet Start
21293:   <E> Script List
21294:   <F> Find
21295:   <G> Goto
21296:   <H> Mark Line
21297:   <I> Interface List
21298:   <J> Code Completion
21299:   <K> Console
21300:   <L> Interface List Box
21301:   <M> Font Larger -
21302:   <N> New Line
21303:   <O> Open File
21304:   <P> Font Smaller +
21305:   <Q> Quit
21306:   <R> Replace
21307:   <S> Save!
21308:   <T> Delete Line
21309:   <U> Use Case Editor
21310:   <V> Paste
21311:   <W> URI Links
21312:   <X> Reserved for coding use internal
21313:   <Y> Delete Line
21314:   <Z> Undo
21315:
21316: ref
21317:   F1 Help
21318:   F2 Syntax Check
21319:   F3 Search Next

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21320: F4 New Instance
21321: F5 Line Mark /Breakpoint
21322: F6 Goto End
21323: F7 Debug Step Into
21324: F8 Debug Step Out
21325: F9 Compile
21326: F10 Menu
21327: F11 Word Count Highlight
21328: F12 Reserved for coding use internal
21329:
21330: AddRegisteredVariable('Application', 'TApplication');
21331: AddRegisteredVariable('Screen', 'TScreen');
21332: AddRegisteredVariable('Self', 'TForm');
21333: AddRegisteredVariable('Memo1', 'TSynMemo');
21334: AddRegisteredVariable('memo2', 'TMemo');
21335: AddRegisteredVariable('maxForm1', 'TMaxform1'); //!
21336: AddRegisteredVariable('debugout', 'Tdebugoutput'); //!
21337: AddRegisteredVariable('hlog', 'THotlog'); //!
21338: AddRegisteredVariable( it ,integer'); //for closure!!
21339: AddRegisteredVariable( sr ,string'); //for closure
21340: AddRegisteredVariable( bt ,boolean'); //for closure
21341: AddRegisteredVariable( ft ,double'); //for closure
21342: AddRegisteredVariable( srlst ,TStringlist'); //for closures
21343:
21344: def ReservedWords: array[0..82] of string =
21345: ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
21346: 'constructor', 'default', 'destructor', 'dispointerface', 'div', 'do',
21347: 'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
21348: 'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
21349: 'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
21350: 'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
21351: 'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
21352: 'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
21353: 'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
21354: 'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
21355: 'public', 'published', def, ref, using, typedef, memo1, 'memo2', 'doc', 'maxform1', 'it';
21356: AllowedChars: array[0..5] of string = ('.', ',', '[', ']', '!', ' ', t,t1,t2,t3: boolean;
21357: //-----
21358: //*****End of mx4 Public Tools API *****
21359: //-----
21360:
21361: Amount of Functions: 13685
21362: Amount of Procedures: 8396
21363: Amount of Constructors: 1369
21364: Totals of Calls: 23450
21365: SHA1: Win 3.9.9.101 786FA3035226AC3F62F6F6B9E2B94C1D659297
21366:
21367: ****
21368: Doc Short Manual with 50 Tips!
21369: ****
21370: - Install: just save your maxboxdef.ini before and then extract the zip file!
21371: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
21372: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
21373: - Menu: With <Ctrl><F3> you can search for code on examples
21374: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
21375: - Menu: Set Interface Naviagator in menu /View/Inft Navigator
21376: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
21377:
21378: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
21379: - Inifile: Refresh (reload) the inifile after edit with ..\Help\Config Update
21380: - Context Menu: You can printout your scripts as a pdf-file or html-export
21381: - Context: You do have a context menu with the right mouse click
21382:
21383: - Menu: With the UseCase Editor you can convert graphic formats too.
21384: - Menu: On menu Options you find Addons as compiled scripts
21385: - IDE: Menu Program: Run Only is faster, after F2 - You don't need a mouse use shortcuts
21386: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
21387: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
21388: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
21389:         or ttimer (you type classp and then CTRL J),or you type tstringlist and <Ctrl><J>
21390:
21391: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
21392: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
21393: - Code: If you code a loop till key-pressed use function: isKeyPressed;
21394: - Code: Macro set the macros #name,, #paAdministrorth, #file,startmaxbox_extract_funclist399.txt
21395: - Code: change Syntax in autoboot macro 'maxbootscript.txt'
21396: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
21397:         to delete and Click and mark to drag a bookmark
21398: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
21399: - IDE: A file info with system and script information you find in menu Program/Information
21400: - IDE: After change the config file in help you can update changes in menu Help/Config Update
21401: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
21402: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
21403: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
21404: - Editor: Set Bookmarks to check your work in app or code
21405: - Editor: With <Ctrl H> you set {$Active Line Color} and F11 you get Word Count Statistic on Output too
21406: - Editor: With {TODO: some description} or DONE you set code entries for ToDo List in ..\Help/ToDo List
21407: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
21408:

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21409: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
21410: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
21411: - Menu: Set Interface Naviagator also with toolbar <Ctrl L> or /View/Intf Navigator
21412: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
21413: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
21414: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
21415: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
21416: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
21417: - IDE menu /Help/Tools/ open the Task Manager
21418:
21419: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
21420: - Add on when no browser is available start /Options/Add ons/Easy Browser
21421: - Add on SOAP Tester with SOP POST File
21422: - Add on IP Protocol Sniffer with List View
21423: - Add on OpenGL mX Robot Demo for android
21424: - Add on Checkers Game, Add on Oscilloscope
21425:
21426: - Menu: Help/Tools as a Tool Section with DOS Opener
21427: - Menu Editor: export the code as RTF File
21428: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
21429: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
21430: - Context: Auto Detect of Syntax depending on file extension
21431: - Code: some Windows API function start with w in the name like wGetAtomName();
21432: - IDE Close - if you can't close the box then reset it <Ctrl F2> in menu /Debug
21433: - IDE File Check with menu ..View/File Changes/...
21434: - Context: Create a Header with Create Header in Navigator List at right window
21435: - Code: use SysErrorMessage to get a real Error Description, Ex.
21436:     RemoveDir('c:\NoSuchFolder');
21437:     writeln('System Error Message: ' + SysErrorMessage(GetLastError));
21438: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
21439:
21440: - using DLL example in maxbox: //function: {*****}
21441:     Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
21442:                                         cb: DWORD): BOOL; //stdcall;
21443:     External 'GetProcessMemoryInfo@psapi.dll stdcall';
21444:     Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
21445:     External 'OpenProcess@kernel32.dll stdcall';
21446:
21447: GCC Compile Ex Script
21448: procedure TFormMain_btnCompileClick(Sender: TObject);
21449: begin
21450:   AProcess:= TProcess.Create(Nil);
21451:   try AProcess.Commandline := 'gcc.exe "' + OpenDialog1.FileName + '"';
21452:   +' -o "' + OpenDialog2.FileName + '"';
21453:   AProcess.Options:= AProcess.Options + [poWaitOnExit, poUsePipes];
21454:   AProcess.Execute;
21455:   Memo2.Lines.BeginUpdate;
21456:   Memo2.Lines.Clear;
21457:   Memo2.Lines.LoadFromStream(AProcess.Output);
21458:   Memo2.Lines.EndUpdate;
21459:   finally
21460:     AProcess.Free;
21461:   end;
21462: end;
21463:
21464: Stopwatch pattern
21465: Timel:= Time;
21466: writeln(formatdatetime('start:' hh:mm:ss:zzz',Time))
21467: if initAndStartBoard then
21468:   writeln('Filesize: '+inttostr(filesize(FILESAVE)));
21469:   writeln(formatDateTime('stop:' hh:mm:ss:zzz',Time))
21470:   PrintF('%d %s',[Trunc((Time-Timel)*24),
21471:                     FormatDateTime('h runtime:' nn:ss:zzz',Time-Timel)]);
21472:
21473: POST git-receive-pack (chunked)
21474: Pushing to https://github.com/maxkleiner/maxbox3.git
21475: To https://github.com/maxkleiner/maxbox3.git
21476: f127d21..c6a98da masterbox2 -> masterbox2
21477: updating local tracking ref 'refs/remotes/maxbox3Remote/masterbox2'
21478:
21479: History Shell Hell
21480: PCT Precompile Technology , mX4 ScriptStudio
21481: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
21482: DMath, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
21483: emax layers: system-package-component-unit-class-function-block
21484: new keywords def ref using maxCalcF
21485: UML: use case act class state seq pac comp dep - lib lab
21486: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
21487: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
21488: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
21489: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
21490: 1 DLL Report, 24 Units add, DRTable, Remote+, Cindy functions!
21491: DLL Report, UML Tutor, 32 Units add, DRTable, Remote+, Cindy functions!
21492: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
21493: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, ParaDice 3D Cube Polygraph, OCR
21494: GetScript or GetWebScript, GPS Example, Profiler, Checkers, Toolbox commons
21495: Add 15 Units, Wav resources, RoundTo, OpenOffice, Pipes
21496: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
21497: Inno Install and Setup Routines

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21498: Add 32 Units, Wav res, RoundTo, OpenOffice, Pipes, GSM2
21499: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
21500: Vfw (Video), FindFirst3, ResFiler, AssemblyCache, UnitTest
21501: 9 Color LED, LED Resources, Runtime LED, it + sr var, morse generator
21502: Add 5 Units, 1 Tutors, maxmap, OpenStreetView, MAPX
21503: Function Menu/View/GEO Map View, DownloadFile, wgetX, sensors
21504: StreamUtils, IDL Syntax, OpenStreetMap, runByteCode, sensor panel, CGI of Powtils
21505: ByteCode2, IPUtils2, GEOCode
21506:
21507: Ref:
21508: https://unibe-ch.academia.edu/MaxKleiner
21509: http://www.slideshare.net/maxkleiner1
21510: http://www.scribd.com/max_kleiner
21511: http://www.delphiforfun.org/Programs/Utilities/index.htm
21512: http://www.slideshare.net/maxkleiner1
21513: http://s3.amazonaws.com/PreviewLinks/22959.html
21514: http://www.softwareschule.ch/arduino_training.pdf
21515: http://www.jrsoftware.org/isinfo.php
21516: http://www.be-precision.com/products/precision-builder/express/
21517: http://www.blaisepascal.eu/
21518: http://www.delphibasics.co.uk/
21519: http://www.youtube.com/watch?v=av89HAbqAsI
21520: http://www.angelfire.com/his/delphizeus/modal.html
21521: https://github.com/dilshan/signalman/blob/master/SignalManTemplate.pas
21522: http://delphi.org/2014/01/every-android-api-for-delphi/
21523: https://en.wikipedia.org/wiki/User:Maxkleiner
21524: http://en.wikipedia.org/wiki/Megido_%28Free_Pascal%29
21525:
21526:
21527: UrlGoogleQrCode='http://chart.apis.google.com/chart?chs=%dx%d&cht=qr&chl=%s';
21528: UrlMapQuestAPICode2='http://open.mapquestapi.com/nominatim/v1/search.php?format=%s&json_callback
21529: =renderBasicNarrative&q=%s';
21530: UrlMapQuestAPIReverse='http://open.mapquestapi.com/nominatim/v1/reverse.php?format=
21531: %s&json_callback=renderExampleThreeResults&lat=%s&lon=%s';
21532:
21533:
21534: function OpenMap(const Data: string): boolean;
21535: var encURL: string;
21536: begin
21537:   encURL:= Format(UrlMapQuestAPICode2,['html',HTTPENcode(Data)]);
21538:   try
21539:     //HttpGetEncodedURL, mapStream); //WinInet
21540:     Result:= UrlDownloadToFile(Nil,PChar(encURL),PChar(Exepath+'openmapx.html'),0,Nil)= 0;
21541:     //OpenDoc(Exepath+'openmapx.html');
21542:     S_ShellExecute(Exepath+'openmapx.html','','seCmdOpen');
21543:   finally
21544:     encURL:= '';
21545:   end;
21546: end;
21547:
21548: procedure GetGEOMap(C_form,apath: string; const Data: string);
21549: var
21550:   encodedURL: string;
21551:   mapStream: TMemoryStream;
21552: begin
21553:   //encodedURL:= Format(UrlGoogleQrCode,[Width,Height, C_Level, HTTPENcode(Data)]);
21554:   encodedURL:= Format(UrlMapQuestAPICode2,[C_form,HTTPENcode(Data)]);
21555:   mapStream:= TMemoryStream.create;
21556:   try
21557:     Wininet_HttpGet(EncodedURL, mapStream); //WinInet
21558:     mapStream.Position:= 0;
21559:     mapStream.Savetofile(apath);
21560:     // OpenDoc(apath);
21561:     S_ShellExecute(apath,'',seCmdOpen);
21562:   finally
21563:     mapStream.Free;
21564:   end;
21565: end;
21566:
21567:
21568: ****
21569: unit List asm internal end
21570: ****
21571: 01 unit RIRegister_Utils_Routines(exec); //Delphi
21572: 02 unit SIRegister_IdStrings; //Indy Sockets
21573: 03 unit RIRegister_niSTRING_Routines(Exec); //From RegEx
21574: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
21575: 05 unit IFSI_WinFormlpuzzle; //maXbox
21576: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImagefileLibBCB
21577: 07 unit RegisterDateTImeLibrary_R(exec); //Delphi
21578: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
21579: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
21580: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
21581: 11 unit uPSI_IdTCPConnection; //Indy some functions
21582: 12 unit uPSCompiler.pas; //PS kernel functions
21583: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
21584: 14 unit uPSI_Printers.pas; //Delphi VCL
21585: 15 unit uPSI_MPlayer.pas; //Delphi VCL
21586: 16 unit uPSC_comobj; //COM Functions

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21587: 17 unit uPSI_Clipbrd;                                //Delphi VCL
21588: 18 unit Filectrl in IFSI_SysUtils_max;             //VCL Runtime
21589: 19 unit uPSI_SQLExpr;                               //DBX3
21590: 20 unit uPSI_ADOdb;                                //ADODB
21591: 21 unit uPSI_StrHlpr;                             //String Helper Routines
21592: 22 unit uPSI_Dateutils;                            //Expansion to DateTimeLib
21593: 23 unit uPSI_Fileutils;                            //Expansion to Sys/File Utils
21594: 24 unit JUutils / gsUtils;                         //Jedi / Metabase
21595: 25 unit JvFunctions_max;                           //Jedi Functions
21596: 26 unit HTTPParser;                               //Delphi VCL
21597: 27 unit HTTPUtil;                                 //Delphi VCL
21598: 28 unit uPSI_XMLUtil;                            //Delphi VCL
21599: 29 unit uPSI_SOAPHTTPClient;                      //Delphi VCL SOAP WebService V3.5
21600: 30 unit uPSI_Contrns;                            //Delphi RTL Container of Classes
21601: 31 unit uPSI_Maskutils;                           //RTL Edit and Mask functions
21602: 32 unit uPSI_MyBigInt;                            //big integer class with Math
21603: 33 unit uPSI_ConvUtils;                           //Delphi VCL Conversions engine
21604: 34 unit Types_Variants;                          //Delphi\Win32\rtl\sys
21605: 35 unit uPSI_IdHashSHA1;                          //Indy Crypto Lib
21606: 36 unit uPSI_IdHashMessageDigest;                //Indy Crypto;
21607: 37 unit uPSI_IdASN1Util;                          //Indy ASN1Utility Routines;
21608: 38 unit uPSI_IdLogFile;                           //Indy Logger from LogBase
21609: 39 unit uPSI_IdICmpClient;                        //Indy Ping ICMP
21610: 40 unit uPSI_IdHashMessageDigest_max;            //Indy Crypto &OpenSSL;
21611: 41 unit uPSI_FileCtrl;                            //Delphi RTL
21612: 42 unit uPSI_Outline;                            //Delphi VCL
21613: 43 unit uPSI_ScktComp;                           //Delphi RTL
21614: 44 unit uPSI_Calendar;                           //Delphi VCL
21615: 45 unit uPSI_VlistView;                           //VlistView;
21616: 46 unit uPSI_DBGrids;                            //Delphi VCL
21617: 47 unit uPSI_DBCtrls;                            //Delphi VCL
21618: 48 unit ide_debugoutput;                         //maXbox
21619: 49 unit uPSI_ComCtrls;                           //Delphi VCL
21620: 50 unit uPSC_stdCtrls+;                          //Delphi VCL
21621: 51 unit uPSI_Dialogs;                            //Delphi VCL
21622: 52 unit uPSI_StdConvs;                           //Delphi RTL
21623: 53 unit uPSI_DBClient;                           //Delphi RTL
21624: 54 unit uPSI_DBPlatform;                         //Delphi RTL
21625: 55 unit uPSI_Provider;                           //Delphi RTL
21626: 56 unit uPSI_FMTBcd;                            //Delphi RTL
21627: 57 unit uPSI_DBGrids;                            //Delphi VCL
21628: 58 unit uPSI_CDSUtil;                            //MIDAS
21629: 59 unit uPSI_VarHlpr;                            //Delphi RTL
21630: 60 unit uPSI_ExtDlg;                            //Delphi VCL
21631: 61 unit sdpStopwatch;                           //maXbox
21632: 62 unit uPSI_JclStatistics;                     //JCL
21633: 63 unit uPSI_JclLogic;                           //JCL
21634: 64 unit uPSI_JclMiscel;                          //JCL
21635: 65 unit uPSI_JclMath_max;                        //JCL RTL
21636: 66 unit uPSI_uTPLb_StreamUtils;                 //LockBox 3
21637: 67 unit uPSI_MathUtils;                          //BCB
21638: 68 unit uPSI_JclMultimedia;                    //JCL
21639: 69 unit uPSI_WideStrUtils;                      //Delphi API/RTL
21640: 70 unit uPSI_GraphUtil;                          //Delphi RTL
21641: 71 unit uPSI_TypeTrans;                          //Delphi RTL
21642: 72 unit uPSI_HTTPApp;                           //Delphi VCL
21643: 73 unit uPSI_DBWeb;                            //Delphi VCL
21644: 74 unit uPSI_DBBdeWeb;                           //Delphi VCL
21645: 75 unit uPSI_DBXpressWeb;                       //Delphi VCL
21646: 76 unit uPSI_ShadowWnd;                          //Delphi VCL
21647: 77 unit uPSI_ToolWin;                           //Delphi VCL
21648: 78 unit uPSI_Tabs;                             //Delphi VCL
21649: 79 unit uPSI_JclGraphUtils;                     //JCL
21650: 80 unit uPSI_JclCounter;                         //JCL
21651: 81 unit uPSI_JclSysInfo;                         //JCL
21652: 82 unit uPSI_JclSecurity;                        //JCL
21653: 83 unit uPSI_JclFileUtils;                      //JCL
21654: 84 unit uPSI_IdUserAccounts;                   //Indy
21655: 85 unit uPSI_IdAuthentication;                 //Indy
21656: 86 unit uPSI_uTPLb_AES;                          //LockBox 3
21657: 87 unit uPSI_IdHashSHA1;                        //LockBox 3
21658: 88 unit uTPLb_BlockCipher;                      //LockBox 3
21659: 89 unit uPSI_ValEdit.pas;                        //Delphi VCL
21660: 90 unit uPSI_JvVCLUtils;                         //JCL
21661: 91 unit uPSI_JvDBUtil;                           //JCL
21662: 92 unit uPSI_JvDBUtils;                          //JCL
21663: 93 unit uPSI_JvAppUtils;                         //JCL
21664: 94 unit uPSI_JvCtrlUtils;                        //JCL
21665: 95 unit uPSI_JvFormToHtml;                       //JCL
21666: 96 unit uPSI_JvParsing;                           //JCL
21667: 97 unit uPSI_SerDlg;                            //Toolbox
21668: 98 unit uPSI_Serial;                            //Toolbox
21669: 99 unit uPSI_JvComponent;                       //JCL
21670: 100 unit uPSI_JvCalc;                            //JCL
21671: 101 unit uPSI_JvBdeUtils;                        //JCL
21672: 102 unit uPSI_JvDateUtil;                        //JCL
21673: 103 unit uPSI_JvGenetic;                         //JCL
21674: 104 unit uPSI_JclBase;                           //JCL
21675: 105 unit uPSI_JvUtils;                           //JCL

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21676: 106 unit uPSI_JvStringUtil;                                //JCL
21677: 107 unit uPSI_JvStringUtil;                                //JCL
21678: 108 unit uPSI_JvFileUtil;                                 //JCL
21679: 109 unit uPSI_JvMemoryInfos;                             //JCL
21680: 110 unit uPSI_JvComputerInfo;                            //JCL
21681: 111 unit uPSI_JvgCommClasses;                           //JCL
21682: 112 unit uPSI_JvgLogics;                                //JCL
21683: 113 unit uPSI_JvLED;                                    //JCL
21684: 114 unit uPSI_JvTurtle;                                 //JCL
21685: 115 unit uPSI_SortThds; unit uPSI_ThSort;             //maxbox
21686: 116 unit uPSI_JvgUtils;                                //JCL
21687: 117 unit uPSI_JvExprParser;                            //JCL
21688: 118 unit uPSI_HexDump;                                 //Borland
21689: 119 unit uPSI_DBLogDlg;                               //VCL
21690: 120 unit uPSI_SqlTimSt;                               //RTL
21691: 121 unit uPSI_JvHtmlParser;                            //JCL
21692: 122 unit uPSI_JvgXMLSerializer;                         //JCL
21693: 123 unit uPSI_JvJCLUtils;                             //JCL
21694: 124 unit uPSI_JvStrings;                               //TurboPower
21695: 125 unit uPSI_uTPLb_IntegerUtils;                      //TurboPower
21696: 126 unit uPSI_uTPLb_HugeCardinal;                     //TurboPower
21697: 127 unit uPSI_uTPLb_HugeCardinalUtils;                //TurboPower
21698: 128 unit uPSI_SynRegExpr;                            //SynEdit
21699: 129 unit uPSI_StUtils;                                //SysTools4
21700: 130 unit uPSI_StToHTML;                               //SysTools4
21701: 131 unit uPSI_StStrms;                               //SysTools4
21702: 132 unit uPSI_StFIN;                                 //SysTools4
21703: 133 unit uPSI_StAstroP;                            //SysTools4
21704: 134 unit uPSI_StStat;                                //SysTools4
21705: 135 unit uPSI_StNetCon;                            //SysTools4
21706: 136 unit uPSI_StDecMth;                            //SysTools4
21707: 137 unit uPSI_StOStr;                               //SysTools4
21708: 138 unit uPSI_StPtrns;                            //SysTools4
21709: 139 unit uPSI_StNetMessage;                         //SysTools4
21710: 140 unit uPSI_StMath;                               //SysTools4
21711: 141 unit uPSI_StExpEng;                            //SysTools4
21712: 142 unit uPSI_StCRC;                                //SysTools4
21713: 143 unit uPSI_StExport;                            //SysTools4
21714: 144 unit uPSI_StExpLog;                            //SysTools4
21715: 145 unit uPSI_ActnList;                            //Delphi VCL
21716: 146 unit uPSI_jpeg;                                //Borland
21717: 147 unit uPSI_StRandom;                            //SysTools4
21718: 148 unit uPSI_StDict;                                //SysTools4
21719: 149 unit uPSI_StBCD;                                //SysTools4
21720: 150 unit uPSI_StTxtDat;                            //SysTools4
21721: 151 unit uPSI_StRegEx;                            //SysTools4
21722: 152 unit uPSI_IMouse;                            //VCL
21723: 153 unit uPSI_SyncObjs;                            //VCL
21724: 154 unit uPSI_AsyncCalls;                          //Hausladen
21725: 155 unit uPSI_ParallelJobs;                         //Saraiva
21726: 156 unit uPSI_Variants;                            //VCL
21727: 157 unit uPSI_VarCmplx;                            //VCL Wolfram
21728: 158 unit uPSI_DTDSchema;                           //VCL
21729: 159 unit uPSI_ShLwApi;                            //Brakel
21730: 160 unit uPSI_IBUtils;                            //VCL
21731: 161 unit uPSI_CheckLst;                            //VCL
21732: 162 unit uPSI_JvSimpleXml;                         //JCL
21733: 163 unit uPSI_JclSimpleXml;                        //JCL
21734: 164 unit uPSI_JvXmlDatabase;                       //JCL
21735: 165 unit uPSI_JvMaxPixel;                           //JCL
21736: 166 unit uPSI_JvItemsSearchs;                      //JCL
21737: 167 unit uPSI_StExpEng2;                           //SysTools4
21738: 168 unit uPSI_StGenLog;                            //SysTools4
21739: 169 unit uPSI_JvLogFile;                           //Jcl
21740: 170 unit uPSI_CPort;                               //ComPort Lib v4.11
21741: 171 unit uPSI_CPortCtl;                            //ComPort
21742: 172 unit uPSI_CPortEsc;                            //ComPort
21743: 173 unit BarCodeScanner;                           //ComPort
21744: 174 unit uPSI_JvGraph;                            //JCL
21745: 175 unit uPSI_JvComCtrls;                           //JCL
21746: 176 unit uPSI_GUITesting;                          //D Unit
21747: 177 unit uPSI_JvFindFiles;                          //JCL
21748: 178 unit uPSI_StSystem;                            //SysTools4
21749: 179 unit uPSI_JvKeyboardStates;                   //JCL
21750: 180 unit uPSI_JvMail;                             //JCL
21751: 181 unit uPSI_JclConsole;                           //JCL
21752: 182 unit uPSI_JclLANMan;                           //JCL
21753: 183 unit uPSI_IdCustomHTTPServer;                 //Indy
21754: 184 unit IdHTTPServer;                            //Indy
21755: 185 unit uPSI_IdTCPServer;                         //Indy
21756: 186 unit uPSI_IdSocketHandle;                     //Indy
21757: 187 unit uPSI_IdIOHandlerSocket;                  //Indy
21758: 188 unit IdIOHandler;                            //Indy
21759: 189 unit uPSI_cutils;                            //Bloodshed
21760: 190 unit uPSI_BoldUtils;                           //boldsoft
21761: 191 unit uPSI_IdSimpleServer;                     //Indy
21762: 192 unit uPSI_IdSSLOpenSSL;                        //Indy
21763: 193 unit uPSI_IdMultipartFormData;                //Indy
21764: 194 unit uPSI_SynURIOpener;                        //SynEdit

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21765: 195 unit uPSI_PerlRegEx; //PCRE
21766: 196 unit uPSI_IdHeaderList; //Indy
21767: 197 unit uPSI_StFirst; //SysTools4
21768: 198 unit uPSI_JvCtrls; //JCL
21769: 199 unit uPSI_IdTrivialFTPBase; //Indy
21770: 200 unit uPSI_IdTrivialFTP; //Indy
21771: 201 unit uPSI_IdUDPBase; //Indy
21772: 202 unit uPSI_IdUDPClient; //Indy
21773: 203 unit uPSI_utypes; //for DMath.DLL
21774: 204 unit uPSI_ShellAPI; //Borland
21775: 205 unit uPSI_IdRemoteCMDClient; //Indy
21776: 206 unit uPSI_IdRemoteCMDServer; //Indy
21777: 207 unit IdRexecServer; //Indy
21778: 208 unit IdRexec; (unit uPSI_IdRexec;) //Indy
21779: 209 unit IdUDPServer; //Indy
21780: 210 unit IdTimeUDPServer; //Indy
21781: 211 unit IdTimeServer; //Indy
21782: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;) //Indy
21783: 213 unit uPSI_IdIPWatch; //Indy
21784: 214 unit uPSI_IdIrcServer; //Indy
21785: 215 unit uPSI_IdMessageCollection; //Indy
21786: 216 unit uPSI_cPEM; //Fundamentals 4
21787: 217 unit uPSI_cFundamentUtils; //Fundamentals 4
21788: 218 unit uPSI_uwinplot; //DMath
21789: 219 unit uPSI_xrtl_util_CPUUtils; //ExtendedRTL
21790: 220 unit uPSI_GR32_System; //Graphics32
21791: 221 unit uPSI_cFileUtils; //Fundamentals 4
21792: 222 unit uPSI_cDateTime; (timemachine) //Fundamentals 4
21793: 223 unit uPSI_cTimers; (high precision timer) //Fundamentals 4
21794: 224 unit uPSI_cRandom; //Fundamentals 4
21795: 225 unit uPSI_ueval; //DMath
21796: 226 unit uPSI_xrtl_net_URIUtils; //ExtendedRTL
21797: 227 unit xrtl_net_URIUtils; //ExtendedRTL
21798: 228 unit uPSI_ufft; (FFT) //DMath
21799: 229 unit uPSI_DBXChannel; //Delphi
21800: 230 unit uPSI_DBXIndyChannel; //Delphi Indy
21801: 231 unit uPSI_xrtl_util_COMCat; //ExtendedRTL
21802: 232 unit uPSI_xrtl_util_StrUtils; //ExtendedRTL
21803: 233 unit uPSI_xrtl_util_VariantUtils; //ExtendedRTL
21804: 234 unit uPSI_xrtl_util_FileUtils; //ExtendedRTL
21805: 235 unit xrtl_util_Compat; //ExtendedRTL
21806: 236 unit uPSI_OleAuto; //Borland
21807: 237 unit uPSI_xrtl_util_COMUtils; //ExtendedRTL
21808: 238 unit uPSI_CmAdmCtl; //Borland
21809: 239 unit uPSI_ValEdit2; //VCL
21810: 240 unit uPSI_GR32; //Graphics32
21811: 241 unit uPSI_GR32_Image; //Graphics32
21812: 242 unit uPSI_xrtl_util_TimeUtils; //ExtendedRTL
21813: 243 unit uPSI_xrtl_util_TimeZone; //ExtendedRTL
21814: 244 unit uPSI_xrtl_util_TimeStamp; //ExtendedRTL
21815: 245 unit uPSI_xrtl_util_Map; //ExtendedRTL
21816: 246 unit uPSI_xrtl_util_Set; //ExtendedRTL
21817: 247 unit uPSI_CPortMonitor; //ComPort
21818: 248 unit uPSI_StInistm; //SysTools4
21819: 249 unit uPSI_GR32_ExtImage; //Graphics32
21820: 250 unit uPSI_GR32_OrdinalMaps; //Graphics32
21821: 251 unit uPSI_GR32_Rasterizers; //Graphics32
21822: 252 unit uPSI_xrtl_util_Exception; //ExtendedRTL
21823: 253 unit uPSI_xrtl_util_Value; //ExtendedRTL
21824: 254 unit uPSI_xrtl_util_Compare; //ExtendedRTL
21825: 255 unit uPSI_FlatSB; //VCL
21826: 256 unit uPSI_JvAnalogClock; //JCL
21827: 257 unit uPSI_JvAlarms; //JCL
21828: 258 unit uPSI_JvSQLS; //JCL
21829: 259 unit uPSI_JvDBSecur; //JCL
21830: 260 unit uPSI_JvDBQBE; //JCL
21831: 261 unit uPSI_JvStarfield; //JCL
21832: 262 unit uPSI_JVCLMiscal; //JCL
21833: 263 unit uPSI_JvProfiler32; //JCL
21834: 264 unit uPSI_JvDirectories; //JCL
21835: 265 unit uPSI_JclSchedule; //JCL
21836: 266 unit uPSI_JclSvcCtrl; //JCL
21837: 267 unit uPSI_JvSoundControl; //JCL
21838: 268 unit uPSI_JvBDESQLScript; //JCL
21839: 269 unit uPSI_JvgDigits; //JCL>
21840: 270 unit uPSI_ImgList; //TCustomImageList
21841: 271 unit uPSI_JclMIDI; //JCL>
21842: 272 unit uPSI_JclWinMidi; //JCL>
21843: 273 unit uPSI_JclNTFS; //JCL>
21844: 274 unit uPSI_JclAppInst; //JCL>
21845: 275 unit uPSI_JvRle; //JCL>
21846: 276 unit uPSI_JvRas32; //JCL>
21847: 277 unit uPSI_JvImageDrawThread; //JCL>
21848: 278 unit uPSI_JvImageWindow; //JCL>
21849: 279 unit uPSI_JvTransparentForm; //JCL>
21850: 280 unit uPSI_JvWinDialogs; //JCL>
21851: 281 unit uPSI_JvSimLogic; //JCL>
21852: 282 unit uPSI_JvSimIndicator; //JCL>
21853: 283 unit uPSI_JvSimPID; //JCL>

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21854: 284 unit uPSI_JvSimPIDLinker; //JCL>
21855: 285 unit uPSI_IdRFCReply; //Indy
21856: 286 unit uPSI_IdIdent; //Indy
21857: 287 unit uPSI_IdIdentServer; //Indy
21858: 288 unit uPSI_JvPatchFile; //JCL
21859: 289 unit uPSI_StNetPfm; //SysTools4
21860: 290 unit uPSI_StNet; //SysTools4
21861: 291 unit uPSI_JclPeImage; //JCL
21862: 292 unit uPSI_JclPrint; //JCL
21863: 293 unit uPSI_JclMime; //JCL
21864: 294 unit uPSI_JvRichEdit; //JCL
21865: 295 unit uPSI_JvDBRichEd; //JCL
21866: 296 unit uPSI_JvDice; //JCL
21867: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
21868: 298 unit uPSI_JvDirFrm; //JCL
21869: 299 unit uPSI_JvDualList; //JCL
21870: 300 unit uPSI_JvSwitch; //JCL
21871: 301 unit uPSI_JvTimerLst; //JCL
21872: 302 unit uPSI_JvMemTable; //JCL
21873: 303 unit uPSI_JvObjStr; //JCL
21874: 304 unit uPSI_StLArr; //SysTools4
21875: 305 unit uPSI_StWmDCpy; //SysTools4
21876: 306 unit uPSI_StText; //SysTools4
21877: 307 unit uPSI_StNTLog; //SysTools4
21878: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
21879: 309 unit uPSI_JvImagPrvw; //JCL
21880: 310 unit uPSI_JvFormPatch; //JCL
21881: 311 unit uPSI_JvPicClip; //JCL
21882: 312 unit uPSI_JvDataConv; //JCL
21883: 313 unit uPSI_JvCpuUsage; //JCL
21884: 314 unit uPSI_JclUnitConv_mx2; //JCL
21885: 315 unit JvDualListForm; //JCL
21886: 316 unit uPSI_JvCpuUsage2; //JCL
21887: 317 unit uPSI_JvParserForm; //JCL
21888: 318 unit uPSI_JvJanTreeView; //JCL
21889: 319 unit uPSI_JvTransLED; //JCL
21890: 320 unit uPSI_JvPlaylist; //JCL
21891: 321 unit uPSI_JvFormAutoSize; //JCL
21892: 322 unit uPSI_JvYearGridEditForm; //JCL
21893: 323 unit uPSI_JvMarkupCommon; //JCL
21894: 324 unit uPSI_JvChart; //JCL
21895: 325 unit uPSI_JvXPCore; //JCL
21896: 326 unit uPSI_JvXPCoreUtils; //JCL
21897: 327 unit uPSI_StatsClasses; //mX4
21898: 328 unit uPSI_ExtCtrls2; //VCL
21899: 329 unit uPSI_JvUrlGrabbers; //JCL
21900: 330 unit uPSI_JvXmlTree; //JCL
21901: 331 unit uPSI_JvWavePlayer; //JCL
21902: 332 unit uPSI_JvUnicodeCanvas; //JCL
21903: 333 unit uPSI_JvTFUtils; //JCL
21904: 334 unit uPSI_IdServerIOHandler; //Indy
21905: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
21906: 336 unit uPSI_IdMessageCoder; //Indy
21907: 337 unit uPSI_IdMessageCoderMIME; //Indy
21908: 338 unit uPSI_IdMIMETypes; //Indy
21909: 339 unit uPSI_JvConverter; //JCL
21910: 340 unit uPSI_JvCsvParse; //JCL
21911: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
21912: 342 unit uPSI_ExcelExport; (Nat:TJsExcelExport) //JCL
21913: 343 unit uPSI_JvDBGridExport; //JCL
21914: 344 unit uPSI_JvgExport; //JCL
21915: 345 unit uPSI_JvSerialMaker; //JCL
21916: 346 unit uPSI_JvWin32; //JCL
21917: 347 unit uPSI_JvPaintFX; //JCL
21918: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
21919: 349 unit uPSI_JvValidators; (preview) //JCL
21920: 350 unit uPSI_JvNTEventLog; //JCL
21921: 351 unit uPSI_ShellZipTool; //mX4
21922: 352 unit uPSI_JvJoystick; //JCL
21923: 353 unit uPSI_JvMailSlots; //JCL
21924: 354 unit uPSI_JclComplex; //JCL
21925: 355 unit uPSI_SynPdf; //Synopse
21926: 356 unit uPSI_Registry; //VCL
21927: 357 unit uPSI_TlHelp32; //VCL
21928: 358 unit uPSI_JclRegistry; //JCL
21929: 359 unit uPSI_JvAirBrush; //JCL
21930: 360 unit uPSI_mORMotReport; //Synopse
21931: 361 unit uPSI_JclLocales; //JCL
21932: 362 unit uPSI_SynEdit; //SynEdit
21933: 363 unit uPSI_SynEditTypes; //SynEdit
21934: 364 unit uPSI_SynMacroRecorder; //SynEdit
21935: 365 unit uPSI_LongIntList; //SynEdit
21936: 366 unit uPSI_devutils; //DevC
21937: 367 unit uPSI_SynEditMiscClasses; //SynEdit
21938: 368 unit uPSI_SynEditRegexSearch; //SynEdit
21939: 369 unit uPSI_SynEditHighlighter; //SynEdit
21940: 370 unit uPSI_SynHighlighterPas; //SynEdit
21941: 371 unit uPSI_JvSearchFiles; //JCL
21942: 372 unit uPSI_SynHighlighterAny; //Lazarus

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21943: 373 unit uPSI_SynEditKeyCmds; //SynEdit
21944: 374 unit uPSI_SynEditMiscProcs; //SynEdit
21945: 375 unit uPSI_SynEditKbdHandler; //SynEdit
21946: 376 unit uPSI_JvAppInst; //JCL
21947: 377 unit uPSI_JvAppEvent; //JCL
21948: 378 unit uPSI_JvAppCommand; //JCL
21949: 379 unit uPSI_JvAnimTitle; //JCL
21950: 380 unit uPSI_JvAnimatedImage; //JCL
21951: 381 unit uPSI_SynEditExport; //SynEdit
21952: 382 unit uPSI_SynExportHTML; //SynEdit
21953: 383 unit uPSI_SynExportRTF; //SynEdit
21954: 384 unit uPSI_SynEditSearch; //SynEdit
21955: 385 unit uPSI_fMain_back; //maxbox;
21956: 386 unit uPSI_JvZoom; //JCL
21957: 387 unit uPSI_PMrand; //PM
21958: 388 unit uPSI_JvSticker; //JCL
21959: 389 unit uPSI_XmlVerySimple; //mX4
21960: 390 unit uPSI_Services; //ExtPascal
21961: 391 unit uPSI_ExtPascalUtils; //ExtPascal
21962: 392 unit uPSI_SocketsDelphi; //ExtPascal
21963: 393 unit uPSI_StBarC; //SysTools
21964: 394 unit uPSI_StDbBarC; //SysTools
21965: 395 unit uPSI_StBarPN; //SysTools
21966: 396 unit uPSI_StDbPNBC; //SysTools
21967: 397 unit uPSI_StDb2DBC; //SysTools
21968: 398 unit uPSI_StMoney; //SysTools
21969: 399 unit uPSI_JvForth; //JCL
21970: 400 unit uPSI_RestRequest; //mX4
21971: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
21972: 402 unit uPSI_JvXmlDatabase; //update //JCL
21973: 403 unit uPSI_StAstro; //SysTools
21974: 404 unit uPSI_StSort; //SysTools
21975: 405 unit uPSI_StDate; //SysTools
21976: 406 unit uPSI_StDateSt; //SysTools
21977: 407 unit uPSI_StBase; //SysTools
21978: 408 unit uPSI_StVInfo; //SysTools
21979: 409 unit uPSI_JvBrowseFolder; //JCL
21980: 410 unit uPSI_JvBoxProcs; //JCL
21981: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
21982: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
21983: 413 unit uPSI_JvHighlighter; //JCL
21984: 414 unit uPSI_Diff; //mX4
21985: 415 unit uPSI_SpringWinAPI; //DSpring
21986: 416 unit uPSI_StBins; //SysTools
21987: 417 unit uPSI_TomDBQue; //mX4
21988: 418 unit uPSI_MultilangTranslator; //mX4
21989: 419 unit uPSI_HyperLabel; //mX4
21990: 420 unit uPSI_Starter; //mX4
21991: 421 unit uPSI_FileAssocs; //devC
21992: 422 unit uPSI_devFileMonitorX; //devC
21993: 423 unit uPSI_devrunt; //devC
21994: 424 unit uPSI_devExec; //devC
21995: 425 unit uPSI_loysUtils; //devC
21996: 426 unit uPSI_DosCommand; //devC
21997: 427 unit uPSI_CppTokenizer; //devC
21998: 428 unit uPSI_JvHLPParser; //devC
21999: 429 unit uPSI_JclMap; //JCL
22000: 430 unit uPSI_JclShell; //JCL
22001: 431 unit uPSI_JclCOM; //JCL
22002: 432 unit uPSI_GR32_Math; //Graphics32
22003: 433 unit uPSI_GR32_LowLevel; //Graphics32
22004: 434 unit uPSI_SimpleH1; //mX4
22005: 435 unit uPSI_GR32_Filters; //Graphics32
22006: 436 unit uPSI_GR32_VectorMaps; //Graphics32
22007: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
22008: 438 unit uPSI_JvTimer; //JCL
22009: 439 unit uPSI_cHTTPUtils; //Fundamentals 4
22010: 440 unit uPSI_cTLSUtils; //Fundamentals 4
22011: 441 unit uPSI_JclGraphics; //JCL
22012: 442 unit uPSI_JclSynch; //JCL
22013: 443 unit uPSI_IdTelnet; //Indy
22014: 444 unit uPSI_IdTelnetServer; //Indy
22015: 445 unit uPSI_IdEcho; //Indy
22016: 446 unit uPSI_IdEchoServer; //Indy
22017: 447 unit uPSI_IdEchoUDP; //Indy
22018: 448 unit uPSI_IdEchoUDPServer; //Indy
22019: 449 unit uPSI_IdSocks; //Indy
22020: 450 unit uPSI_IdAntiFreezeBase; //Indy
22021: 451 unit uPSI_IdHostnameServer; //Indy
22022: 452 unit uPSI_IdTunnelCommon; //Indy
22023: 453 unit uPSI_IdTunnelMaster; //Indy
22024: 454 unit uPSI_IdTunnelSlave; //Indy
22025: 455 unit uPSI_IdRSH; //Indy
22026: 456 unit uPSI_IdRSHServer; //Indy
22027: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
22028: 458 unit uPSI_MapReader; //devC
22029: 459 unit uPSI_LibTar; //devC
22030: 460 unit uPSI_IdStack; //Indy
22031: 461 unit uPSI_IdBlockCipherIntercept; //Indy

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22032: 462 unit uPSI_IdChargenServer; //Indy
22033: 463 unit uPSI_IdFTPServer; //Indy
22034: 464 unit uPSI_IdException; //Indy
22035: 465 unit uPSI_utexplot; //DMath
22036: 466 unit uPSI_uwinstr; //DMath
22037: 467 unit uPSI_VarRecUtils; //devC
22038: 468 unit uPSI_JvStringListToHtml; //JCL
22039: 469 unit uPSI_JvStringHolder; //JCL
22040: 470 unit uPSI_IdCoder; //Indy
22041: 471 unit uPSI_SynHighlighterDfm; //Synedit
22042: 472 unit uHighlighterProcs; in 471 //Synedit
22043: 473 unit uPSI_LazFileUtils; //LCL
22044: 474 unit uPSI_IDECmdLine; //LCL
22045: 475 unit uPSI_lazMasks; //LCL
22046: 476 unit uPSI_ip_misc; //mX4
22047: 477 unit uPSI_Barcodes; //LCL
22048: 478 unit uPSI_SimpleXML; //LCL
22049: 479 unit uPSI_JclIniFiles; //JCL
22050: 480 unit uPSI_D2XXUnit; {$X-} //FTDI
22051: 481 unit uPSI_JclDateTime; //JCL
22052: 482 unit uPSI_JclEDI; //JCL
22053: 483 unit uPSI_JclMiscel2; //JCL
22054: 484 unit uPSI_JclValidation; //JCL
22055: 485 unit uPSI_JclAansiStrings; {-PString} //JCL
22056: 486 unit uPSI_SynEditMiscProcs2; //Synedit
22057: 487 unit uPSI_JclStreams; //JCL
22058: 488 unit uPSI_QRCode; //mX4
22059: 489 unit uPSI_BlockSocket; //ExtPascal
22060: 490 unit uPSI_Masks_Utils; //VCL
22061: 491 unit uPSI_synautil; //Synapse!
22062: 492 unit uPSI_JclMath_Class; //JCL RTL
22063: 493 unit ugamdist; //Gamma function //DMath
22064: 494 unit uibeta, ucorrel; //IBeta //DMath
22065: 495 unit uPSI_SRMgr; //mX4
22066: 496 unit uPSI_HotLog; //mX4
22067: 497 unit uPSI_DebugBox; //mX4
22068: 498 unit uPSI_ustrings; //DMath
22069: 499 unit uPSI_uregtest; //DMath
22070: 500 unit uPSI_usimplex; //DMath
22071: 501 unit uPSI_uhyper; //DMath
22072: 502 unit uPSI_IdHL7; //Indy
22073: 503 unit uPSI_IdIPMCastBase; //Indy
22074: 504 unit uPSI_IdIPMCastServer; //Indy
22075: 505 unit uPSI_IdIPMCastClient; //Indy
22076: 506 unit uPSI_unlfit; //nlregression //DMath
22077: 507 unit uPSI_IdRawHeaders; //Indy
22078: 508 unit uPSI_IdRawClient; //Indy
22079: 509 unit uPSI_IdRawFunctions; //Indy
22080: 510 unit uPSI_IdTCPStream; //Indy
22081: 511 unit uPSI_IdSNPP; //Indy
22082: 512 unit uPSI_St2DBarC; //SysTools
22083: 513 unit uPSI_ImageWin; //FTL //VCL
22084: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
22085: 515 unit uPSI_GraphWin; //FTL //VCL
22086: 516 unit uPSI_actionMain; //FTL //VCL
22087: 517 unit uPSI_StSpawn; //SysTools
22088: 518 unit uPSI_CtlPanel; //VCL
22089: 519 unit uPSI_IdLPR; //Indy
22090: 520 unit uPSI_SockRequestInterpreter; //Indy
22091: 521 unit uPSI_ultimo; //DMath
22092: 522 unit uPSI_ucholesk; //DMath
22093: 523 unit uPSI_SimpleDS; //VCL
22094: 524 unit uPSI_DBXSqlScanner; //VCL
22095: 525 unit uPSI_DBXMetaDataTable; //VCL
22096: 526 unit uPSI_Chart; //TEE
22097: 527 unit uPSI_TeeProcs; //TEE
22098: 528 unit mXBDEUtils; //mX4
22099: 529 unit uPSI_MDIEdit; //VCL
22100: 530 unit uPSI_CopyPsr; //VCL
22101: 531 unit uPSI_SockApp; //VCL
22102: 532 unit uPSI_AppEvnts; //VCL
22103: 533 unit uPSI_ExtActns; //VCL
22104: 534 unit uPSI_TeEngine; //TEE
22105: 535 unit uPSI_CoolMain; //browser //VCL
22106: 536 unit uPSI_StCRC; //SysTools
22107: 537 unit uPSI_StDecMth2; //SysTools
22108: 538 unit uPSI_frmExportMain; //Synedit
22109: 539 unit uPSI_SynDBEdit; //Synedit
22110: 540 unit uPSI_SynEditWildcardSearch; //Synedit
22111: 541 unit uPSI_BoldComUtils; //BOLD
22112: 542 unit uPSI_BoldIsoDateTime; //BOLD
22113: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
22114: 544 unit uPSI_BoldXMLRequests; //BOLD
22115: 545 unit uPSI_BoldStringList; //BOLD
22116: 546 unit uPSI_BoldfileHandler; //BOLD
22117: 547 unit uPSI_BoldContainers; //BOLD
22118: 548 unit uPSI_BoldQueryUserDlg; //BOLD
22119: 549 unit uPSI_BoldWinINet; //BOLD
22120: 550 unit uPSI_BoldQueue; //BOLD

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22121: 551 unit uPSI_JvPcx; //JCL
22122: 552 unit uPSI_IdWhois; //Indy
22123: 553 unit uPSI_IdWhoIsServer; //Indy
22124: 554 unit uPSI_IdGopher; //Indy
22125: 555 unit uPSI_IdDateTimeStamp; //Indy
22126: 556 unit uPSI_IdDayTimeServer; //Indy
22127: 557 unit uPSI_IdDayTimeUDP; //Indy
22128: 558 unit uPSI_IdDayTimeUDPServer; //Indy
22129: 559 unit uPSI_IdDictServer; //Indy
22130: 560 unit uPSI_IdDiscardServer; //Indy
22131: 561 unit uPSI_IdDiscardUDPServer; //Indy
22132: 562 unit uPSI_IdMappedFTP; //Indy
22133: 563 unit uPSI_IdMappedPortTCP; //Indy
22134: 564 unit uPSI_IdGopherServer; //Indy
22135: 565 unit uPSI_IdQotdServer; //Indy
22136: 566 unit uPSI_JvRgbToHtml; //JCL
22137: 567 unit uPSI_JvRemLog; //JCL
22138: 568 unit uPSI_JvSysComp; //JCL
22139: 569 unit uPSI_JvtMtl; //JCL
22140: 570 unit uPSI_JvWinampAPI; //JCL
22141: 571 unit uPSI_MsysUtils; //mx4
22142: 572 unit uPSI_ESBMaths; //ESB
22143: 573 unit uPSI_ESBMaths2; //ESB
22144: 574 unit uPSI_UlkJSON; //Lk
22145: 575 unit uPSI_ZURL; //Zeos
22146: 576 unit uPSI_ZsysUtils; //Zeos
22147: 577 unit unaUtils internals; //UNA
22148: 578 unit uPSI_ZMatchPattern; //Zeos
22149: 579 unit uPSI_Zclasses; //Zeos
22150: 580 unit uPSI_ZCollections; //Zeos
22151: 581 unit uPSI_ZEncoding; //Zeos
22152: 582 unit uPSI_IdRawBase; //Indy
22153: 583 unit uPSI_IdNTLM; //Indy
22154: 584 unit uPSI_IdNNTP; //Indy
22155: 585 unit uPSI_usniffer; //PortScanForm //mx4
22156: 586 unit uPSI_IdCoderMIME; //Indy
22157: 587 unit uPSI_IdCoderUUE; //Indy
22158: 588 unit uPSI_IdCoderXXE; //Indy
22159: 589 unit uPSI_IdCoder3to4; //Indy
22160: 590 unit uPSI_IdCookie; //Indy
22161: 591 unit uPSI_IdCookieManager; //Indy
22162: 592 unit uPSI_WdosSocketUtils; //WDos
22163: 593 unit uPSI_WdosPlcUtils; //WDos
22164: 594 unit uPSI_WdosPorts; //WDos
22165: 595 unit uPSI_WdosResolvers; //WDos
22166: 596 unit uPSI_WdosTimers; //WDos
22167: 597 unit uPSI_WdosPlcs; //WDos
22168: 598 unit uPSI_WdosPneumatics; //WDos
22169: 599 unit uPSI_IdFingerServer; //Indy
22170: 600 unit uPSI_IdDNSResolver; //Indy
22171: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy
22172: 602 unit uPSI_IdIntercept; //Indy
22173: 603 unit uPSI_IdIPMCastBase; //Indy
22174: 604 unit uPSI_IdLogBase; //Indy
22175: 605 unit uPSI_IdIOHandlerStream; //Indy
22176: 606 unit uPSI_IdMappedPortUDP; //Indy
22177: 607 unit uPSI_IdQoTDUDPServer; //Indy
22178: 608 unit uPSI_IdQoTDUDP; //Indy
22179: 609 unit uPSI_IdSysLog; //Indy
22180: 610 unit uPSI_IdSysLogServer; //Indy
22181: 611 unit uPSI_IdSysLogMessage; //Indy
22182: 612 unit uPSI_IdTimeServer; //Indy
22183: 613 unit uPSI_IdTimeUDP; //Indy
22184: 614 unit uPSI_IdTimeUDPServer; //Indy
22185: 615 unit uPSI_IdUserAccounts; //Indy
22186: 616 unit uPSI_TextUtils; //mx4
22187: 617 unit uPSI_MandelbrotEngine; //mx4
22188: 618 unit uPSI_delphi_arduino_Unit1; //mx4
22189: 619 unit uPSI_DTDSchema2; //mx4
22190: 620 unit uPSI_fplotMain; //DMath
22191: 621 unit uPSI_FindFileIter; //mx4
22192: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
22193: 623 unit uPSI_PppParser; //PPP
22194: 624 unit uPSI_PppLexer; //PPP
22195: 625 unit uPSI_PCharUtils; //PPP
22196: 626 unit uPSI_uJSON; //WU
22197: 627 unit uPSI_JclStrHashMap; //JCL
22198: 628 unit uPSI_JclHookExcept; //JCL
22199: 629 unit uPSI_EncdDecd; //VCL
22200: 630 unit uPSI_SockAppReg; //VCL
22201: 631 unit uPSI_PJFileHandle; //PJ
22202: 632 unit uPSI_PJEnvVars; //PJ
22203: 633 unit uPSI_PJPipe; //PJ
22204: 634 unit uPSI_PJPipeFilters; //PJ
22205: 635 unit uPSI_PJConsoleApp; //PJ
22206: 636 unit uPSI_UConsoleAppEx; //PJ
22207: 637 unit uPSI_DbxBsocketChannelNative; //VCL
22208: 638 unit uPSI_DbxDatagenerator; //VCL
22209: 639 unit uPSI_DBXClient; //VCL

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22210: 640 unit uPSI_IdLogEvent;                                //Indy
22211: 641 unit uPSI_Reversi;                                 //mX4
22212: 642 unit uPSI_Geometry;                                //mX4
22213: 643 unit uPSI_IdSMTPServer;                            //Indy
22214: 644 unit uPSI_Textures;                               //mX4
22215: 645 unit uPSI_IBX;                                    //VCL
22216: 646 unit uPSI_IWDBCommon;                             //VCL
22217: 647 unit uPSI_SortGrid;                               //mX4
22218: 648 unit uPSI_IB;                                     //VCL
22219: 649 unit uPSI_IBScript;                              //VCL
22220: 650 unit uPSI_JvCSVBaseControls;                     //JCL
22221: 651 unit uPSI_Jvg3DColors;                           //JCL
22222: 652 unit uPSI_JvHLEditor; //beat                   //JCL
22223: 653 unit uPSI_JvShellHook;                           //JCL
22224: 654 unit uPSI_DBCommon2;                            //VCL
22225: 655 unit uPSI_JvSHFileOperation;                    //JCL
22226: 656 unit uPSI_uFileexport;                          //mX4
22227: 657 unit uPSI_JvDialogs;                            //JCL
22228: 658 unit uPSI_JvDBTreeView;                         //JCL
22229: 659 unit uPSI_JvDBUltimGrid;                        //JCL
22230: 660 unit uPSI_JvDBQueryParamsForm;                  //JCL
22231: 661 unit uPSI_JvExControls;                         //JCL
22232: 662 unit uPSI_JvBDEMemTable;                        //JCL
22233: 663 unit uPSI_JvCommStatus;                         //JCL
22234: 664 unit uPSI_JvMailSlots2;                          //JCL
22235: 665 unit uPSI_JvgWinMask;                           //JCL
22236: 666 unit uPSI_StEclipse;                           //SysTools
22237: 667 unit uPSI_StMime;                               //SysTools
22238: 668 unit uPSI_StList;                               //SysTools
22239: 669 unit uPSI_StMerge;                             //SysTools
22240: 670 unit uPSI_StStrS;                             //SysTools
22241: 671 unit uPSI_StTree;                             //SysTools
22242: 672 unit uPSI_StVArr;                            //SysTools
22243: 673 unit uPSI_StRegIni;                           //SysTools
22244: 674 unit uPSI_urkf;                                //DMath
22245: 675 unit uPSI_usvd;                                //DMath
22246: 676 unit uPSI_DepWalkUtils;                      //JCL
22247: 677 unit uPSI_OptionsFrm;                         //JCL
22248: 678 unit yuvconverts;                            //mX4
22249: 679 uPSI_JvPropAutoSave;                         //JCL
22250: 680 uPSI_AclAPI;                                //alcinoe
22251: 681 uPSI_AviCap;                                //alcinoe
22252: 682 uPSI_ALAVLBinaryTree;                       //alcinoe
22253: 683 uPSI_ALFcMisc;                             //alcinoe
22254: 684 uPSI_ALStringList;                          //alcinoe
22255: 685 uPSI_ALQuickSortList;                      //alcinoe
22256: 686 uPSI_ALStaticText;                          //alcinoe
22257: 687 uPSI_ALJSONDoc;                            //alcinoe
22258: 688 uPSI_ALGSMComm;                           //alcinoe
22259: 689 uPSI_ALWindows;                           //alcinoe
22260: 690 uPSI_ALMultiPartFormDataParser;             //alcinoe
22261: 691 uPSI_ALHttpCommon;                         //alcinoe
22262: 692 uPSI_ALWebSpider;                          //alcinoe
22263: 693 uPSI_ALHttpClient;                        //alcinoe
22264: 694 uPSI_ALFcHTML;                            //alcinoe
22265: 695 uPSI_ALFTPClient;                          //alcinoe
22266: 696 uPSI_ALInternetMessageCommon;            //alcinoe
22267: 697 uPSI_ALWininetHttpclient;                 //alcinoe
22268: 698 uPSI_ALWinInetFTPClient;                  //alcinoe
22269: 699 uPSI_ALWinHttpWrapper;                   //alcinoe
22270: 700 uPSI_ALWinHttpClient;                     //alcinoe
22271: 701 uPSI_ALFcWinSock;                          //alcinoe
22272: 702 uPSI_ALFcSQL;                            //alcinoe
22273: 703 uPSI_ALFcCGI;                            //alcinoe
22274: 704 uPSI_ALFcExecute;                         //alcinoe
22275: 705 uPSI_ALFcFile;                            //alcinoe
22276: 706 uPSI_ALFcMimeType;                        //alcinoe
22277: 707 uPSI_ALPhpRunner;                         //alcinoe
22278: 708 uPSI_ALGraphic;                           //alcinoe
22279: 709 uPSI_ALIniFiles;                          //alcinoe
22280: 710 uPSI_ALMemCachedClient;                  //alcinoe
22281: 711 unit uPSI_MyGrids;                         //mX4
22282: 712 uPSI_ALMultiPartMixedParser;              //alcinoe
22283: 713 uPSI_ALSMTPClient;                        //alcinoe
22284: 714 uPSI_ALNNTPClient;                        //alcinoe
22285: 715 uPSI_ALHintBalloon;                      //alcinoe
22286: 716 unit uPSI_ALXmlDoc;                        //alcinoe
22287: 717 unit uPSI_IPCThrd;                         //VCL
22288: 718 unit uPSI_MonForm;                          //VCL
22289: 719 unit uPSI_TeCanvas;                         //Orpheus
22290: 720 unit uPSI_OvcMisc;                          //Orpheus
22291: 721 unit uPSI_ocvfiler;                        //Orpheus
22292: 722 unit uPSI_ocvstate;                        //Orpheus
22293: 723 unit uPSI_ovccoco;                         //Orpheus
22294: 724 unit uPSI_ocrvexp;                         //Orpheus
22295: 725 unit uPSI_OvcFormatSettings;              //Orpheus
22296: 726 unit uPSI_OvcUtils;                        //Orpheus
22297: 727 unit uPSI_ocvstore;                        //Orpheus
22298: 728 unit uPSI_ocvstr;                          //Orpheus

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22299: 729 unit uPSI_ovcmru;                                //Orpheus
22300: 730 unit uPSI_ovccmd;                               //Orpheus
22301: 731 unit uPSI_ovctimer;                            //Orpheus
22302: 732 unit uPSI_ocvctrl;                            //Orpheus
22303: 733 uPSI_AfCircularBuffer;                         //AsyncFree
22304: 734 uPSI_AfUtils;                                 //AsyncFree
22305: 735 uPSI_AfSafeSync;                             //AsyncFree
22306: 736 uPSI_AfComPortCore;                           //AsyncFree
22307: 737 uPSI_AfComPort;                               //AsyncFree
22308: 738 uPSI_AfPortControls;                          //AsyncFree
22309: 739 uPSI_AfDataDispatcher;                        //AsyncFree
22310: 740 uPSI_AfViewers;                              //AsyncFree
22311: 741 uPSI_AfDataTerminal;                          //AsyncFree
22312: 742 uPSI_SimplePortMain;                          //AsyncFree
22313: 743 unit uPSI_ovcclock;                           //Orpheus
22314: 744 unit uPSI_o32intlst;                          //Orpheus
22315: 745 unit uPSI_o32ledlabel;                         //Orpheus
22316: 746 unit uPSI_AlMySqlClient;                      //alcinoe
22317: 747 unit uPSI_ALFBXClient;                        //alcinoe
22318: 748 unit uPSI_ALFcnsSQL;                          //alcinoe
22319: 749 unit uPSI_AsyncTimer;                          //mX4
22320: 750 unit uPSI_ApplicationFileIO;                  //mX4
22321: 751 unit uPSI_PsAPI;                             //VCLé
22322: 752 uPSI_ovcuser;                                //Orpheus
22323: 753 uPSI_ovcurl;                                //Orpheus
22324: 754 uPSI_ovcvlb;                                //Orpheus
22325: 755 uPSI_ovccolor;                             //Orpheus
22326: 756 uPSI_ALFBXLib;                             //alcinoe
22327: 757 uPSI_ovcmeter;                            //Orpheus
22328: 758 uPSI_ovcpeakm;                            //Orpheus
22329: 759 uPSI_O32BGSty;                            //Orpheus
22330: 760 uPSI_ovcBidi;                                //Orpheus
22331: 761 uPSI_ovctcarry;                           //Orpheus
22332: 762 uPSI_DXPUtils;                            //mX4
22333: 763 uPSI_ALMultiPartBaseParser;                 //alcinoe
22334: 764 uPSI_ALMultiPartAlternativeParser;          //alcinoe
22335: 765 uPSI_ALPOP3Client;                          //alcinoe
22336: 766 uPSI_SmallUtils;                            //mX4
22337: 767 uPSI_MakeApp;                                //mX4
22338: 768 uPSI_O32MouseMon;                           //Orpheus
22339: 769 uPSI_OvcCache;                            //Orpheus
22340: 770 uPSI_ovccalc;                                //Orpheus
22341: 771 uPSI_Joystick;                            //OpenGL
22342: 772 uPSI_ScreenSaver;                           //OpenGL
22343: 773 uPSI_XCollection;                          //OpenGL
22344: 774 uPSI_Polynomials;                          //OpenGL
22345: 775 uPSI_PersistentClasses, //9.86           //OpenGL
22346: 776 uPSI_VectorLists;                           //OpenGL
22347: 777 uPSI_XOpenGL;                                //OpenGL
22348: 778 uPSI_MeshUtils;                            //OpenGL
22349: 779 unit uPSI_JclSysUtils;                      //JCL
22350: 780 unit uPSI_JclBorlandTools;                  //JCL
22351: 781 unit JclFileUtils_max;                      //JCL
22352: 782 uPSI_AfDataControls;                         //AsyncFree
22353: 783 uPSI_GLSilhouette;                          //OpenGL
22354: 784 uPSI_JclSysUtils_class;                     //JCL
22355: 785 uPSI_JclFileUtils_class;                    //JCL
22356: 786 uPSI_FileUtil;                             //JCL
22357: 787 uPSI_changefind;                           //mX4
22358: 788 uPSI_CmdIntf;                                //mX4
22359: 789 uPSI_fservice;                            //mX4
22360: 790 uPSI_Keyboard;                            //OpenGL
22361: 791 uPSI_VRMLParser;                           //OpenGL
22362: 792 uPSI_GLFileVRML;                           //OpenGL
22363: 793 uPSI_Octree;                                //OpenGL
22364: 794 uPSI_GLPolyhedron;                          //OpenGL
22365: 795 uPSI_GLCrossPlatform;                      //OpenGL
22366: 796 uPSI_GLParticles;                           //OpenGL
22367: 797 uPSI_GLNavigator;                           //OpenGL
22368: 798 uPSI_GLStarRecord;                          //OpenGL
22369: 799 uPSI_GLTextureCombiners;                   //OpenGL
22370: 800 uPSI_GLCanvas;                            //OpenGL
22371: 801 uPSI_GeometryBB;                           //OpenGL
22372: 802 uPSI_GeometryCoordinates;                  //OpenGL
22373: 803 uPSI_VectorGeometry;                        //OpenGL
22374: 804 uPSI_BumpMapping;                           //OpenGL
22375: 805 uPSI_TGA;                                 //OpenGL
22376: 806 uPSI_GLVectorFileObjects;                  //OpenGL
22377: 807 uPSI_IMM;                                 //VCL
22378: 808 uPSI_CategoryButtons;                      //VCL
22379: 809 uPSI_ButtonGroup;                           //VCL
22380: 810 uPSI_DbExcept;                            //VCL
22381: 811 uPSI_AxCtrls;                             //VCL
22382: 812 uPSI_GL_actorUnit1;                        //OpenGL
22383: 813 uPSI_StdVCL;                             //VCL
22384: 814 unit CurvesAndSurfaces;                   //OpenGL
22385: 815 uPSI_DataAwareMain;                         //AsyncFree
22386: 816 uPSI_TabNotBk;                            //VCL
22387: 817 uPSI_udwsfiler;                           //mX4

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22388: 818 uPSI_synaip; //Synapse!
22389: 819 uPSI_synacode; //Synapse
22390: 820 uPSI_synachar; //Synapse
22391: 821 uPSI_synamisc; //Synapse
22392: 822 uPSI_synaser; //Synapse
22393: 823 uPSI_synaicnv; //Synapse
22394: 824 uPSI_tlnntsend; //Synapse
22395: 825 uPSI_pingsend; //Synapse
22396: 826 uPSI_blksock; //Synapse
22397: 827 uPSI_asnlutil; //Synapse
22398: 828 uPSI_dnssend; //Synapse
22399: 829 uPSI_clamsend; //Synapse
22400: 830 uPSI_ldapsend; //Synapse
22401: 831 uPSI_mimemess; //Synapse
22402: 832 uPSI_slogsend; //Synapse
22403: 833 uPSI_mimepart; //Synapse
22404: 834 uPSI_mimeinln; //Synapse
22405: 835 uPSI_ftpsend; //Synapse
22406: 836 uPSI_ftptsend; //Synapse
22407: 837 uPSI_httpsend; //Synapse
22408: 838 uPSI_sntpsend; //Synapse
22409: 839 uPSI_smtpsend; //Synapse
22410: 840 uPSI_snmpsend; //Synapse
22411: 841 uPSI_imapsend; //Synapse
22412: 842 uPSI_pop3send; //Synapse
22413: 843 uPSI_nntpsend; //Synapse
22414: 844 uPSI_ssl_cryptlib; //Synapse
22415: 845 uPSI_ssl_openssl; //Synapse
22416: 846 uPSI_synhttp_daemon; //Synapse
22417: 847 uPSI_NetWork; //mX4
22418: 848 uPSI_PingThread; //Synapse
22419: 849 uPSI_JvThreadTimer; //JCL
22420: 850 unit uPSI_wwSystem; //InfoPower
22421: 851 unit uPSI_IdComponent; //Indy
22422: 852 unit uPSI_IdIOHandlerThrottle; //Indy
22423: 853 unit uPSI_Themes; //VCL
22424: 854 unit uPSI_StdStyleActnCtrls; //VCL
22425: 855 unit uPSI_UDDIHelper; //VCL
22426: 856 unit uPSI_IdIMAP4Server; //Indy
22427: 857 uPSI_VariantSymbolTable, //VCL //3.9.9.92
22428: 858 uPSI_udf_glob, //mX4
22429: 859 uPSI_TabGrid, //VCL
22430: 860 uPSI_JsDBTreeView, //mX4
22431: 861 uPSI_JsSendMail, //mX4
22432: 862 uPSI_dbTvRecordList, //mX4
22433: 863 uPSI_TreeVwEx, //mX4
22434: 864 uPSI_ECDataLink, //mX4
22435: 865 uPSI_dbTree, //mX4
22436: 866 uPSI_dbTreeCBox, //mX4
22437: 867 unit uPSI_Debug; //TfrmDebug //mX4
22438: 868 uPSI_TimeFnCs; //mX4
22439: 869 uPSI_FileInft, //VCL
22440: 870 uPSI_SockTransport, //RTL
22441: 871 unit uPSI_WinInet; //RTL
22442: 872 unit uPSI_WWSTR; //mX4
22443: 873 uPSI_DBLookup, //VCL
22444: 874 uPSI_Hotspot, //mX4
22445: 875 uPSI_HList; //History List //mX4
22446: 876 unit uPSI_DrTable; //VCL
22447: 877 uPSI_TConnect, //VCL
22448: 878 uPSI_DataBkr, //VCL
22449: 879 uPSI_HTTPIntr; //VCL
22450: 880 unit uPSI_Mathbox; //mX4
22451: 881 uPSI_cyIndy, //cY
22452: 882 uPSI_cySysUtils, //cY
22453: 883 uPSI_cyWinUtils, //cY
22454: 884 uPSI_cyStrUtils, //cY
22455: 885 uPSI_cyObjUtils, //cY
22456: 886 uPSI_cyDateUtils, //cY
22457: 887 uPSI_cyBDE, //cY
22458: 888 uPSI_cyClasses, //cY
22459: 889 uPSI_cyGraphics, //3.9.9.94_2 //cY
22460: 890 unit uPSI_cyTypes; //cY
22461: 891 uPSI_JvDateTimePicker, //JCL
22462: 892 uPSI_JvCreateProcess, //JCL
22463: 893 uPSI_JvEasterEgg, //JCL
22464: 894 uPSI_WinSvc, //3.9.9.94_3 //VCL
22465: 895 uPSI_SvcMgr //VCL
22466: 896 unit uPSI_JvPickDate; //JCL
22467: 897 unit uPSI_JvNotify; //JCL
22468: 898 uPSI_JvStrHlder //JCL
22469: 899 unit uPSI_JclNTFS2; //JCL
22470: 900 uPSI_Jcl8087 //math coprocessor //JCL
22471: 901 uPSI_JvAddPrinter //JCL
22472: 902 uPSI_JvCabfile //JCL
22473: 903 uPSI_JvDataEmbedded //JCL
22474: 904 unit uPSI_U_HexView; //mX4
22475: 905 uPSI_UWavein4, //mX4
22476: 906 uPSI_AMixer, //mX4

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22477: 907 uPSI_JvaScrollText, //mX4
22478: 908 uPSI_JvArrow, //mX4
22479: 909 unit uPSI_UrlMon; //mX4
22480: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
22481: 911 unit uPSI_U_Oscilloscope4; //TOscfrmMain; //DFF
22482: 912 unit uPSI_DFFUtils; //DFF
22483: 913 unit uPSI_MathsLib; //DFF
22484: 914 uPSI_UIntList; //DFF
22485: 915 uPSI_UGetParens; //DFF
22486: 916 unit uPSI_UGeometry; //DFF
22487: 917 unit uPSI_UAstronomy; //DFF
22488: 918 unit uPSI_UCardComponentV2; //DFF
22489: 919 unit uPSI_UTGraphSearch; //DFF
22490: 920 unit uPSI_UParser10; //DFF
22491: 921 unit uPSI_cyIEUtils; //cY
22492: 922 unit uPSI_UcomboV2; //DFF
22493: 923 uPSI_cyBaseComm, //cY
22494: 924 uPSI_cyAppInstances, //cY
22495: 925 uPSI_cyAttract, //cY
22496: 926 uPSI_cyDERUtils //cY
22497: 927 unit uPSI_cyDocER; //cY
22498: 928 unit uPSI_ODBC; //mX
22499: 929 unit uPSI_AssocExec; //mX
22500: 930 uPSI_cyBaseCommRoomConnector, //cY
22501: 931 uPSI_cyCommRoomConnector, //cY
22502: 932 uPSI_cyCommunicate, //cY
22503: 933 uPSI_cyImage; //cY
22504: 934 uPSI_cyBaseContainer, //cY
22505: 935 uPSI_cyModalContainer, //cY
22506: 936 uPSI_cyFlyingContainer; //cY
22507: 937 uPSI_RegStr, //VCL
22508: 938 uPSI_HtmlHelpViewer; //VCL
22509: 939 unit uPSI_cyIniform //cY
22510: 940 unit uPSI_cyVirtualGrid; //cY
22511: 941 uPSI_Profiler, //DA
22512: 942 uPSI_BackgroundWorker, //DA
22513: 943 uPSI_Waveplay, //DA
22514: 944 uPSI_WaveTimer, //DA
22515: 945 uPSI_WaveUtils; //DA
22516: 946 uPSI_NamedPipes, //TB
22517: 947 uPSI_NamedPipeServer, //TB
22518: 948 unit uPSI_process, //TB
22519: 949 unit uPSI_DPUTils; //TB
22520: 950 unit uPSI_CommonTools; //TB
22521: 951 uPSI_DataSendToWeb, //TB
22522: 952 uPSI_StarCalc, //TB
22523: 953 uPSI_D2_XPVistaHelperU //TB
22524: 954 unit uPSI_NetTools //TB
22525: 955 unit uPSI_Pipes //TB
22526: 956 uPSI_ProcessUnit, //mX
22527: 957 uPSI_AdGSM, //mX
22528: 958 unit uPSI_BetterADODataSet; //mX
22529: 959 unit uPSI_AdSelCom; //FTT //mX
22530: 960 unit unit uPSI_dwsXPlatform; //DWS
22531: 961 uPSI_AdSocket; //mX Turbo Power
22532: 962 uPSI_AdPacket; //mX
22533: 963 uPSI_AdPort; //mX
22534: 964 uPSI_PathFunc; //Inno
22535: 965 uPSI_CmnFunc; //Inno
22536: 966 uPSI_CmnFunc2; //Inno Setup
22537: 967 unit uPSI_BitmapImage; //mX4
22538: 968 unit uPSI_ImageGrabber; //mX4
22539: 969 uPSI_SecurityFunc, //Inno
22540: 970 uPSI_RedirFunc, //Inno
22541: 971 uPSI_FIFO, (MemoryStream) //mX4
22542: 972 uPSI_Int64Em, //Inno
22543: 973 unit uPSI_InstFunc; //Inno
22544: 974 unit uPSI_LibFusion; //Inno
22545: 975 uPSI_SimpleExpression; //Inno
22546: 976 uPSI_unitResourceDetails, //XN
22547: 977 uPSI_unitResFile, //XN
22548: 978 unit uPSI_simpleComport; //mX4
22549: 979 unit uPSI_AfViewershelpers; //Async
22550: 980 unit uPSI_Console; //mX4
22551: 981 unit uPSI_AnalogMeter; //TB
22552: 982 unit uPSI_XPrinter, //TB
22553: 983 unit uPSI_IniFiles; //VCL
22554: 984 unit uPSI_lazIniFiles; //FP
22555: 985 uPSI_testutils; //FP
22556: 986 uPSI_ToolsUnit; (DBTests) //FP
22557: 987 uPSI_fpcunit //FP
22558: 988 uPSI_testdecorator; //FP
22559: 989 unit uPSI_fpcunittests; //FP
22560: 990 unit uPSI_cTCPBuffer; //Fundamentals 4
22561: 991 unit uPSI_Glut, //Open GL
22562: 992 uPSI_LEDBitmaps, //mX4
22563: 993 uPSI_FileClass, //Inno
22564: 994 uPSI_FileUtilsClass, //mX4
22565: 995 uPSI_ComPortInterface; //Kit //mX4

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22566: 996 unit uPSI_SwitchLed; //mX4
22567: 997 unit uPSI_cyDmmCanvas; //CY
22568: 998 uPSI_uColorFunctions; //DFF
22569: 999 uPSI_uSettings; //DDF
22570: 1000 uPSI_cyDebug.pas //cY
22571: 1001 uPSI_cyColorMatrix; //cY
22572: 1002 unit uPSI_cyCopyFiles; //cY
22573: 1003 unit uPSI_cySearchFiles; //cY
22574: 1004 unit uPSI_cyBaseMeasure; //cY
22575: 1005 unit uPSI_PJStreams; //DD
22576: 1006 unit uPSI_cyRunTimeResize; //cY
22577: 1007 unit uPSI_jcontrolutils; //cY
22578: 1008 unit uPSI_kcMapViewer; (+GEONames) //kc
22579: 1009 unit uPSI_kcMapViewerDESynapse; //kc
22580: 1010 unit uPSI_cparserutils; (+GIS_SysUtils) //kc
22581: 1011 unit uPSI_LedNumber; //TurboPower
22582: 1012 unit uPSI_StStrL; //SysTools
22583: 1013 unit uPSI_indGnouMeter; //LAZ
22584: 1014 unit uPSI_Sensors; //LAZ
22585: 1015 unit uPSI_pwmain; //cgi of powtils //Pow
22586: 1016 unit uPSI_HTMLUtil; //Pow
22587: 1017 unit uPSI_synthwrap1; //httpsend //Pow
22588: 1018 unit StreamWrap1 //Pow
22589: 1019 unit uPSI_pwmain; //Pow
22590: 1020 unit pwtypes //Pow
22591: 1021 uPSI_W32VersionInfo //LAZ
22592: 1022 unit uPSI_ipAnim; //LAZ
22593: 1023 unit uPSI_ipUtils; //iputils2(TurboPower) //TP
22594: 1024 unit uPSI_lrtPoTools; //LAZ
22595: 1025 unit uPSI_Laz_DOM; //LAZ
22596: 1026 unit uPSI_hhAvComp; //LAZ
22597: 1027 unit uPSI_GPS2;
22598: 1028 unit uPSI_GPS;
22599: 1029 unit uPSI_GPSUDemo; // formtemplate TFDemo
22600: 1030 unit uPSI_NMEA; // GPS
22601: 1031 unit uPSI_ScreenThreeDLab;
22602:
22603:
22604:
22605: /////////////////////////////////
22606: //Form Template Library FTL
22607: /////////////////////////////////
22608:
22609: 34 FTL For Form Building out of the Script, eg. 399_form_templates.txt
22610:
22611: 045 unit uPSI_VListView TFormListView;
22612: 263 unit uPSI_JvProfiler32; TProfReport
22613: 270 unit uPSI_ImgList TCustomImageList
22614: 278 unit uPSI_JvImageWindow TJvImageWindow
22615: 317 unit uPSI_JvParserForm TJvHTMLParserForm
22616: 497 unit uPSI_DebugBox TDebugBox
22617: 513 unit uPSI_ImageWin TImageForm, TImageForm2
22618: 514 unit uPSI_CustomDrawTreeView TCustomDrawForm
22619: 515 unit uPSI_GraphWin TGraphWinForm
22620: 516 unit uPSI_actionMain TActionForm
22621: 518 unit uPSI_CtlPanel TAppletApplication
22622: 529 unit uPSI_MDIEdit TEditForm
22623: 535 unit uPSI_CoolMain; {browser} TWebMainForm
22624: 538 unit uPSI_frmExportMain TSynexportForm
22625: 585 unit uPSI_usniffer; //PortScanForm TSniffForm
22626: 600 unit uPSI_ThreadForm TThreadSortForm;
22627: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
22628: 620 unit uPSI_fplotMain; TfplotForm1
22629: 660 unit uPSI_JvDBQueryParamsForm TJvQueryParamsDialog
22630: 677 unit uPSI_OptionsFrm TfrmOptions;
22631: 718 unit uPSI_MonForm TMonitorForm
22632: 742 unit uPSI_SimplePortMain TPortForm1
22633: 770 unit uPSI_ovccalc TOvcCalculator //widget
22634: 810 unit uPSI_DbExcept TDbEngineErrorDlg
22635: 812 unit uPSI_GL_actorUnit1 TglActorForm1 //OpenGL Robot
22636: 846 unit uPSI_synhttp_daemon TTCPHttpDaemon, TTCPHttpThrd, TPingThread
22637: 867 unit uPSI_Debug TfrmDebug
22638: 904 unit uPSI_U_HexView THexForm2
22639: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOscfrmMain
22640: 959 unit uPSI_AdSelCom TComSelectForm
22641: 1029 unit uPSI_GPSUDemo TFDemo
22642: 1031 unit uPSI_ScreenThreeDLab TFormLab3D
22643:
22644:
22645: ex.:with TEditForm.create(self) do begin
22646:   caption:= 'Template Form Tester';
22647:   FormStyle:= fsStayOnTop;
22648:   with editor do begin
22649:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf'
22650:     SelStart:= 0;
22651:     Modified:= False;
22652:   end;
22653: end;
22654: with TWebMainForm.create(self) do begin

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22655:     URLs.Text:= 'http://www.kleiner.ch';
22656:     URLsClick(self); Show;
22657:   end;
22658:   with TSynexportForm.create(self) do begin
22659:     Caption:= 'Synexport HTML RTF tester';
22660:     Show;
22661:   end;
22662:   with TThreadSortForm.create(self) do begin
22663:     ShowModal; free;
22664:   end;
22665:   with TCustomDrawForm.create(self) do begin
22666:     width:=820; height:=820;
22667:     image1.height:= 600; //add properties
22668:     image1.picture.bitmap:= image2.picture.bitmap;
22669:     //SelectionBackground1Click(self) CustomDraw1Click(self);
22670:     Background1.click;
22671:     bitmap1.click; Tile1.click;
22672:     ShowModal;
22673:     Free;
22674:   end;
22675:   with TfplotForm1.Create(self) do begin
22676:     BtnPlotClick(self);
22677:     ShowModal; Free;
22678:   end;
22679:   with TOvcCalculator.create(self) do begin
22680:     parent:= aForm;
22681:     //free;
22682:     setbounds(550,510,200,150);
22683:     displaystr:= 'maXcalc';
22684:   end;
22685:   with THexForm2.Create(self) do begin
22686:     ShowModal;
22687:     Free;
22688:   end;
22689:
22690:   function CheckBox: string;
22691:   var idHTTP: TIdHTTP;
22692:   begin
22693:     result:= 'version not found';
22694:     if IsInternet then begin
22695:       idHTTP:= TIdHTTP.Create(NIL);
22696:       try
22697:         result:= idHTTP.Get(MXVERSIONFILE2);
22698:         result:= result[1]+result[2]+result[3]+result[4]+result[5];
22699:         if result = MBVER2 then begin
22700:           //output.Font.Style:= [fsbold];
22701:           //Speak(' A new Version '+vstr+' of max box is available! ');
22702:           result:= ('!!! OK. You have latest Version: '+result+' available at '+MXSITE);
22703:         end;
22704:         //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
22705:       finally
22706:         idHTTP.Free;
22707:       end;
22708:     end;
22709:   end;
22710:
22711:   function ApWinExecAndWait32(FileName:PChar; CommandLine:PChar; Visibility:Integer):Integer;
22712:   function KillTask(ExeFileName: string): Integer;
22713:   procedure KillProcess(hWindowHandle: HWND);
22714:   function FindWindowByTitle(WindowTitle: string): Hwnd;
22715:
22716:
22717: //////////////////////////////////////////////////////////////////
22718: All maxbox Tutorials Table of Content 2014
22719: //////////////////////////////////////////////////////////////////
22720: Tutorial 00 Function-Coding (Blix the Programmer)
22721: Tutorial 01 Procedural-Coding
22722: Tutorial 02 OO-Programming
22723: Tutorial 03 Modular Coding
22724: Tutorial 04 UML Use Case Coding
22725: Tutorial 05 Internet Coding
22726: Tutorial 06 Network Coding
22727: Tutorial 07 Game Graphics Coding
22728: Tutorial 08 Operating System Coding
22729: Tutorial 09 Database Coding
22730: Tutorial 10 Statistic Coding
22731: Tutorial 11 Forms Coding
22732: Tutorial 12 SQL DB Coding
22733: Tutorial 13 Crypto Coding
22734: Tutorial 14 Parallel Coding
22735: Tutorial 15 Serial RS232 Coding
22736: Tutorial 16 Event Driven Coding
22737: Tutorial 17 Web Server Coding
22738: Tutorial 18 Arduino System Coding
22739: Tutorial 18_3 RGB LED System Coding
22740: Tutorial 19 WinCOM /Arduino Coding
22741: Tutorial 20 Regular Expressions RegEx
22742: Tutorial 21 Android Coding (coming 2013)
22743: Tutorial 22 Services Programming
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22744: Tutorial 23 Real Time Systems
22745: Tutorial 24 Clean Code
22746: Tutorial 25 maXbox Configuration I+II
22747: Tutorial 26 Socket Programming with TCP
22748: Tutorial 27 XML & TreeView
22749: Tutorial 28 DLL Coding (available)
22750: Tutorial 29 UML Scripting (2014)
22751: Tutorial 30 Web of Things (2014)
22752: Tutorial 31 Closures (2014)
22753: Tutorial 32 SQL Firebird (coming 2014)
22754: Tutorial 33 Oscilloscope (coming 2015)
22755: Tutorial 34 GPS Navigation (2014)
22756: Tutorial 35 Web Box (available)
22757: Tutorial 36 Unit Testing (coming 2015)
22758: Tutorial 37 API Coding (coming 2015)
22759: Tutorial 38 3D Coding (coming 2015)
22760: Tutorial 39 GEO Map Coding (available)
22761: Tutorial 39_1 GEO Map Layers Coding (available)
22762: Tutorial 40 REST Coding (coming 2015)
22763:
22764:
22765: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
22766: using Docu for this file is maxbox_functions_all.pdf
22767: PEP - Pascal Education Program Low Lib Lab ShellHell
22768:
22769: http://stackoverflow.com/tags/pascalscript/hot
22770: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
22771: http://sourceforge.net/projects/maxbox #locs:51620
22772: http://sourceforge.net/apps/mediawiki/maxbox
22773: http://www.blaisepascal.eu/
22774: https://github.com/maxkleiner/maxbox3.git
22775: http://www.heise.de/download/maxbox-1176464.html
22776: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
22777: https://www.facebook.com/pages/Programming-maxbox/166844836691703
22778: http://www.softwareschule.ch/arduino_training.pdf
22779: http://www.delphiarea.com
22780: http://www.freepascal.org/docs-html/rtl/strutils/index-5.html
22781:
22782:
22783: All maxbox Examples List
22784: https://github.com/maxkleiner/maxbox3/releases
22785: ****
22786: 000_pas_baseconvert.txt 282_fadengraphik.txt
22787: 000_pas_baseconvert.txt_encrypt 283_SQL_API_messagegettimeout.txt
22788: 000_pas_baseconvert.txt_decrypt 284_SysTools4.txt
22789: 001_1_pas_functest - Kopie.txt 285_MineForm_GR32.TXT
22790: 001_1_pas_functest.txt 285_MineForm_GR32main.TXT
22791: 001_1_pas_functest2.txt 285_MineForm_GR32mainsolution.TXT
22792: 001_1_pas_functest_clx2.txt 285_MineForm_propas.TXT
22793: 001_1_pas_functest_clx2_2.txt 285_MineForm_propas2.TXT
22794: 001_1_pas_functest_openarray.txt 285_minesweeper2.TXT
22795: 001_pas_lottogen.txt 285_Patterns_process.txt
22796: 001_pas_lottogen_template.txt 286_colormixer_jpeg_charcounter.txt
22797: 001_pas_lottogen.txtcopy 286_colormixer_jpeg_charcounter2.txt
22798: 002_pas_russianroulette.txt 287_eventhandling.txt
22799: 002_pas_russianroulette.txtcopy 287_eventhandling2.txt
22800: 002_pas_russianroulette.txtcopy_decrypt 287_eventhandling2_negpower.txt
22801: 002_pas_russianroulette.txtcopy_encrypt 288_bitblt.txt
22802: 003_pas_motion.txt 288_bitblt_resize.txt
22803: 003_pas_motion.txtcopy 289_regression.txt
22804: 004_pas_search.txt 289_regression2.txt
22805: 004_pas_search_replace.txt 290_bestofbox.txt
22806: 004_search_replace_allfunctionlist.txt 290_bestofbox2.txt
22807: 005_pas_oodesign.txt 290_bestofbox3.txt
22808: 005_pas_shelllink.txt 291_3sort_visual_thread.txt
22809: 006_pas_oobatch.txt 292_refactoring2.txt
22810: 007_pas_streamcopy.txt 293_bold_utils.txt
22811: 008_EINMALEINS_FUNC.TXT 293_ib_utils.txt
22812: 008_explanation.txt 293_ib_utils_timetest.txt
22813: 008_pas_verwechselt.txt 294_maxcalc_demo.txt
22814: 008_pas_verwechselt_ibz_bern_func.txt 294_maxcalc_demo2.txt
22815: 008_stack_ibz.TXT 295_easter_calendar.txt
22816: 009_pas_umrunner.txt 295_easter_calendar2.txt
22817: 009_pas_umrunner_all.txt 295_easter_combobox.txt
22818: 009_pas_umrunner_componenttest.txt 297_atomimage.txt
22819: 009_pas_umrunner_solution.txt 297_atomimage2.txt
22820: 009_pas_umrunner_solution_2step.txt 297_atomimage3.txt
22821: 010_pas_oodesign_solution.txt 297_atomimage4.txt
22822: 011_pas_puzzlepas_defect.txt 297_maxonmotor.TXT
22823: 012_pas_umrunner_solution.txt 297_maxon_atomimage9.txt
22824: 012_pas_umrunner_solution2.txt 298_bitblt_animation.txt
22825: 013_pas_linenumber.txt 298_bitblt_animation2.txt
22826: 014_pas_primetest.txt 298_bitblt_animation3.txt
22827: 014_pas_primetest_first.txt 298_bitblt_animation4.txt
22828: 014_pas_primetest_sync.txt 298_bitblt_animation4_screensaver.txt
22829: 015_pas_designbycontract.txt 298_bitblt_animation5_screensaver.txt
22830: 015_pas_designbycontract_solution.txt 299_animation.txt
22831: 016_pas_searchrec.txt 299_animationmotor_arduino.txt
22832: 017_chartgen.txt 299_animation_formprototype.txt
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22833: 018_data_simulator.txt
22834: 019_dez_to_bin.txt
22835: 019_dez_to_bin_grenzwert_ibz.txt
22836: 020_proc_feedback.txt
22837: 021_pas_symkey.txt
22838: 021_pas_symkey_solution.txt
22839: 022_pas_filestreams.txt
22840: 023_pas_find_searchrec.txt
22841: 023_pas_pathfind.txt
22842: 024_pas_TFileStream_records.txt
22843: 025_prime_direct.txt
22844: 026_pas_memorystream.txt
22845: 027_pas_shellexecute_beta.txt
22846: 027_pas_shellexecute_solution.txt
22847: 028_pas_dataset.txt
22848: 029_pas_assignfile.txt
22849: 029_pas_assignfile_dragndropexe.txt
22850: 030_palindrome_2.txt
22851: 030_palindrome_tester.txt
22852: 030_pas_recursion.txt
22853: 030_pas_recursion2.txt
22854: 031_pas_hashcode.txt
22855: 032_pas_crc_const.txt
22856: 033_pas_cipher.txt
22857: 033_pas_cipher_def.txt
22858: 033_pas_cipher_file_2_solution.txt
22859: 034_pas_soundbox.txt
22860: 035_pas_crcscript.txt
22861: 035_pas_CRCscript_modbus.txt
22862: 036_pas_includetest.txt
22863: 036_pas_includetest_basta.txt
22864: 037_pas_define_demo32.txt
22865: 038_pas_box_demonstrator.txt
22866: 039_pas_dllcall.txt
22867: 040_paspointer.txt
22868: 040_paspointer_old.txt
22869: 041_pasplotter.txt
22870: 041_pasplotter_plus.txt
22871: 042_pas_kgv_ggt.txt
22872: 043_pas_proceduretype.txt
22873: 044_pas_l4queens_solwithl4.txt
22874: 044_pas_8queens.txt
22875: 044_pas_8queens_sol2.txt
22876: 044_pas_8queens_solutions.txt
22877: 044_queens_performer.txt
22878: 044_queens_performer2.txt
22879: 044_queens_performer2tester.txt
22880: 045_pas_listhandling.txt
22881: 046_pas_records.txt
22882: 047_pas_modula10.txt
22883: 048_pas_romans.txt
22884: 049_pas_ifdemo.txt
22885: 049_pas_ifdemo_BROKER.txt
22886: 050_pas_primetest2.txt
22887: 050_pas_primestester_thieves.txt
22888: 050_program_starter.txt
22889: 050_program_starter_performance.txt
22890: 051_pas_findtext_solution.txt
22891: 052_pas_text_as_stream.txt
22892: 052_pas_text_as_stream_include.txt
22893: 053_pas_singleton.txt
22894: 054_pas_speakpassword.txt
22895: 054_pas_speakpassword2.txt
22896: 054_pas_speakpassword_searchtest.txt
22897: 055_pas_factorylist.txt
22898: 056_pas_demeter.txt
22899: 057_pas_dirfinder.txt
22900: 058_pas_filefinder.txt
22901: 058_pas_filefinder_pdf.txt
22902: 058_pas_filefinder_screview.txt
22903: 058_pas_filefinder_screview2.txt
22904: 058_pas_filefinder_screview3.txt
22905: 059_pas_timertest.txt
22906: 059_pas_timertest_2.txt
22907: 059_pas_timertest_time_solution.txt
22908: 059_timerobject_starter2.txt
22909: 059_timerobject_starter2_ibz2_async.txt
22910: 059_timerobject_starter2_uml.txt
22911: 059_timerobject_starter2.uml_main.txt
22912: 059_timerobject_starter4_ibz.txt
22913: 060_pas_datefind.txt
22914: 060_pas_datefind_exceptions2.txt
22915: 060_pas_datefind_exceptions_CHECKTEST.txt
22916: 060_pas_datefind_fulltext.txt
22917: 060_pas_datefind_plus.txt
22918: 060_pas_datefind_plus_mydate.txt
22919: 061_pas_randomwalk.txt
22920: 061_pas_randomwalk_plus.txt
22921: 062_paskorrelation.txt

299_realtimeclock_arduino.txt
299_realtimeclock_arduino2.txt
300_treeview.txt
300_treeview_test.txt
300_treeview_test2.txt
300_treeview_test3.txt
301_LED_Arduino3.txt
301_led_arduino3_simple.txt
301_led_arduino3_simplecode.txt
301_log_arduino.txt
301_log_arduino2.txt
301_SQL_DBfirebird3.txt
301_SQL_DBfirebird4.txt
302_LCLActivity.java.txt
303_Android_LCLActivity_java.txt
303_webserver.txt
303_webserver2.txt
303_webserver_alldocs2.txt
303_webserver_alldocs2_tester.txt
303_webserver_minimal.txt
303_webserver_simple.txt
304_st_system.txt
305_indy_elizahttpserver.TXT
305_indy_elizahttpserver2.TXT
305_indy_elizahttpserver3.TXT
305_indy_elizahttpserver4file.TXT
305_webserver_arduino.txt
305_webserver_arduino2.txt
305_webserver_arduino3.txt
305_webserver_arduino3ibz.txt
305_webserver_arduino3ibz_rgb_led.txt
305_webserver_arduino3test.txt
306_SPS_http_command.txt
307_all_booleanlogic.txt
308_bitbox3.txt
308_bitbox3_exec.txt
308_boolean_animation.txt
308_boolean_animation2.txt
309_regex_power.txt
309_regex_powertester2.txt
309_regex_powertester3.txt
310_regex_decorator.TXT
312_ListView.txt
313_dmath_dll.txt
314_fundamentals4_tester.TXT
315_funcplot_dmath.TXT
316_cfileutils_cdatetime_tester.TXT
317_excel_export_tester.TXT
318_excel_export.TXT
318_excel_export2.TXT
318_excel_export3.TXT
318_excel_export3_tester.TXT
319_superfunctions_math.TXT
319_superfunctions_mathdefect.TXT
320_superfunctions.TXT
320_superfunctions2.TXT
321_SQL_Excel.txt
321_SQL_Excel2.txt
321_SQL_Excel_Export.txt
321_SQL_ExportExec.txt
321_SQL_ExportTest.txt
321_SQL_SAS_tester3.txt
321_SQL_SAS_tester3_selfcompile.txt
321_SQL_SAS_tester3_selfcompile2.txt
321_SQL_SAS_tester4.txt
321_SQL_SAS_updater.txt
322_timezones.TXT
323_datefind_fulltext_search.txt
323_datefind_fulltext_searchtester.txt
324_interfacenavi.TXT
325_ampelsteuerung.txt
325_analogclock.txt
326_world_analogclock.txt
326_world_analogclock2.txt
327_atomimage_clock.txt
328_starfield.txt
329_starfield2.txt
330_myclock.txt
330_myclock2.txt
331_SQL_DBfirebird4.txt
332_jprofiler.txt
332_jprofiler_form.txt
332_jprofiler_form2.txt
333_querybyexample.txt
333_querybyexample2.txt
334_jvutils_u.txt
335_atomimage5.txt
335_atomimage6.txt

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22922: 063_pas_calculateform.txt          335_atomimage7.txt
22923: 063_pas_calculateform_2list.txt   336_digiclock.txt
22924: 064_pas_timetest.txt              336_digiclock2.txt
22925: 065_pas_bitcounter.txt            336_digiclock2test.txt
22926: 066_pas_eliza.txt                336_digiclock3.txt
22927: 066_pas_eliza_include_sol.txt    337_4games.txt
22928: 067_pas_morse.txt               337_4games_inone.txt
22929: 068_pas_piezo_sound.txt          338_compress.txt
22930: 069_LED_Matrix_R1_3_6_NV_PSchaer.TXT 338_compress2.txt
22931: 069_my_LEDBOX.TXT              339_ntfs.txt
22932: 069_pas_ledmatrix.txt           340_docutype.txt
22933: 069_pas_LEDMATRIX_Alphabet.txt 340_logsimulation.txt
22934: 069_pas_LEDMATRIX_Alphabet_run.txt 340_logsimulation2.txt
22935: 069_pas_LEDMATRIX_Alphabet_tester.txt 340_soundControltype.txt
22936: 069_PAS_LEDMATRIX_COLOR.TXT     341_blix_clock.txt
22937: 069_pas_ledmatrix_fixededit.txt 341_blix_clock2.txt
22938: 069_pas_LEDMATRIX_soundbox.txt 341_blix_clock_tester.txt
22939: 069_pas_LEDMATRIX_soundbox2.txt 342_set_enumerator.txt
22940: 069_Richter_MATRIX.TXT         343_dice2.txt
22941: 070_pas_functionplotter.txt     344_pe_header.txt
22942: 070_pas_functionplotter2.txt    344_pe_header2.txt
22943: 070_pas_functionplotter2_mx4.txt 345_velocity.txt
22944: 070_pas_functionplotter2_tester.txt 346_conversions.txt
22945: 070_pas_functionplotter3.txt    347_pictureview.txt
22946: 070_pas_functionplotter4.txt    348_duallistview.txt
22947: 070_pas_functionplotter_digital.txt 349_biginteger.txt
22948: 070_pas_functionplotter_elliptic.txt 350_parserform.txt
22949: 070_pas_function_helmholtz.txt 351_chartform.txt
22950: 070_pas_textcheck_experimental.txt 351_chartform2.txt
22951: 071_pas_graphics.txt           351_chartform3.txt
22952: 071_pas_graphics_drawsym.txt   352_array_unittest.txt
22953: 071_pas_graphics_drawsym_save.txt 353_smtp_email.txt
22954: 071_pas_graphics_random.txt    353_smtp_email2.txt
22955: 072_pas_fractals.txt           354_josephus.txt
22956: 072_pas_fractals_2.txt         355_life_of_PI.txt
22957: 072_pas_fractals_blackhole.txt 356_3D_printer.txt
22958: 072_pas_fractals_perfomance.txt 357_fplot.TXT
22959: 072_pas_fractals_perfomance_new.txt 358_makesound.txt
22960: 072_pas_fractals_perfomance_sharp.txt 359_charsetrules.TXT
22961: 072_pas_fractals_performance.txt 360_allobjects.TXT
22962: 072_pas_fractals_performance_mx4.txt 360_JvPaintFX.TXT
22963: 073_pas_forms.txt             361_heartbeat_wave.TXT
22964: 074_pas_chartgenerator.txt     362_maxonmotor2.TXT
22965: 074_pas_chartgenerator_solution.txt 363_compress_services.txt
22966: 074_pas_chartgenerator_solution_back.txt 363_compress_services2.txt
22967: 074_pas_charts.txt            364_pdf_services.txt
22968: 075_bitmap_Artwork2.txt       365_memorystream.txt
22969: 075_pas_bitmappuzzle.txt      365_memorystream2.txt
22970: 075_pas_bitmappuzzle24.prod.txt 365_memorystream_test.txt
22971: 075_pas_bitmappuzzle2_prod.txt 365_U_HexView.txt
22972: 075_pas_bitmappuzzle3.txt     366_mp3player.txt
22973: 075_pas_bitmapsolve.txt       366_mp3player2.txt
22974: 075_pas_bitmap_Artwork.txt    366_mp3player2_themestest.txt
22975: 075_pas_puzzlepas_solution.txt 367_silvi_player_widgets.txt
22976: 076_pas_3dcube.txt           367_silvi_player_widgets2.txt
22977: 076_pas_circle.txt           367_widgets.txt
22978: 077_pas_mmshow.txt           368_configuration_demo.txt
22979: 078_pas_pi.txt               369_macro_demo.txt
22980: 079_pas_3dcube_animation.txt 370_callback2grid.TXT
22981: 079_pas_3dcube_animation4.txt 370_richedit.txt
22982: 079_pas_3dcube_plus.txt     370_richedit_highlight.txt
22983: 080_pas_hanoi.txt            370_syndit.txt
22984: 080_pas_hanoi2.txt           370_syndit2.txt
22985: 080_pas_hanoi2_file.txt      370_syndit_mxtester.txt
22986: 080_pas_hanoi2_sol.txt       370_syndit2_mxtester2.txt
22987: 080_pas_hanoi2_tester.txt    371_maxbook_v4tester.txt
22988: 080_pas_hanoi2_tester_fast.txt 372_stackibz2_memoryalloc.TXT
22989: 080_pas_hanoi3.txt           372_syndit_export.txt
22990: 081_pas_chartist2.txt        373_batman.txt
22991: 082_pas.biorythmus.txt       373_fractals_tvout.txt
22992: 082_pas.biorythmus_solution.txt 374_realtime_random.txt
22993: 082_pas.biorythmus_solution_3.txt 374_realtime_random2.txt
22994: 082_pas.biorythmus_test.txt 374_realtime_randomtest.txt
22995: 083_pas_GITARRE.txt          374_realtime_randomtest2.txt
22996: 083_pas_soundbox_tones.txt   375_G9_musicbox.txt
22997: 084_pas_waves.txt           376_collections_list.txt
22998: 085_mxsinus_logo.txt        377_simpleXML.txt
22999: 085_sinu..._plot_waves.txt   377_smartXML.txt
23000: 086_pas_graph_arrow_heart.txt 377_smartXMLWorkshop.txt
23001: 087_bitmap_loader.txt        377_smartXMLWorkshop2.txt
23002: 087_pas_bitmap_solution.txt 378_queryperformance3.txt
23003: 087_pas_bitmap_solution2.txt 378_REST1.txt
23004: 087_pas_bitmap_subimage.txt 378_REST2.txt
23005: 087_pas_bitmap_test.txt      379_timefunc.txt
23006: 088_pas_soundbox2_mp3.txt    379_timefuncTesterfilemon.txt
23007: 088_pas_soundbox_mp3.txt     380_coolfunc.txt
23008: 088_pas_sphere_2.txt        380_coolfunc2.txt
23009: 089_pas_gradient.txt        380_coolfunc_tester.txt
23010: 089_pas_maxland2.txt        381_bitcoin_simulation.txt

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23011: 090_pas_sudoku4.txt
23012: 090_pas_sudoku4_2.txt
23013: 091_pas_cube4.txt
23014: 092_pas_statistics4.txt
23015: 093_variance.txt
23016: 093_variance_debug.txt
23017: 094_pas_daysold.txt
23018: 094_pas_stat_date.txt
23019: 095_pas_ki_simulation.txt
23020: 096_pas_geisen_problem.txt
23021: 096_pas_montyhall_problem.txt
23022: 097_lotto_proofofconcept.txt
23023: 097_pas_lottocombinations_beat_plus.txt
23024: 097_pas_lottocombinations_beat_plus2.txt
23025: 097_pas_lottocombinations_universal.txt
23026: 097_pas_lottosimulation.txt
23027: 098_pas_chartgenerator_plus.txt
23028: 099_pas_3d_show.txt
23029: 200_big_numbers.txt
23030: 200_big_numbers2.txt
23031: 201_streamload_xml.txt
23032: 202_systemcheck.txt
23033: 203_webservice_simple_intftester.txt
23034: 204_webservice_simple.txt
23035: 205_future_value_service.txt
23036: 206_DTD_string_functions.txt
23037: 207_ibz2_async_process.txt
23038: 208_crc32_hash.txt
23039: 209_cryptohash.txt
23040: 210_public_private.txt
23041: 210_public_private_cryptosystem.txt
23042: 211_wipe_pattern.txt
23043: 211_wipe_pattern2.txt
23044: 211_wipe_pattern_solution.txt
23045: 212_pas_statisticmodule4.TXT
23046: 212_pas_statisticmoduletxt.TXT
23047: 212_statisticmodule4.txt
23048: 213_pas_BBP_Algo.txt
23049: 214_mxdocudemo.txt
23050: 214_mxdocudemo2.txt
23051: 214_mxdocudemo3.txt
23052: 215_hints_test.txt
23053: 216_warnings_test.txt
23054: 217_pas_heartbeat.txt
23055: 218_biorhythmus_studio.txt
23056: 219_cipherbox.txt
23057: 219_crypt_source_comtest_solution.TXT
23058: 220_cipherbox_form.txt
23059: 220_cipherbox_form2.txt
23060: 221_bcd_explain.txt
23061: 222_memoform.txt
23062: 223_directorybox.txt
23063: 224_dialogs.txt
23064: 225_sprite_animation.txt
23065: 226_ASCII_Grid2.TXT
23066: 227_animation.txt
23067: 227_animation2.txt
23068: 228_android_calendar.txt
23069: 229_android_game.txt
23070: 229_android_game_tester.txt
23071: 230_DataProvider.txt
23072: 230_DataSetProvider.txt
23073: 230_DataSetXMLBackupScholz.txt
23074: 231_DBGrid_access.txt
23075: 231_DBGrid_XMLaccess.txt
23076: 231_DBGrid_XMLaccess2.txt
23077: 231_DBGrid_XMLaccess_locatetester.txt
23078: 231_DBGrid_XML_CDS_local.txt
23079: 232_outline.txt
23080: 232_outline_2.txt
23081: 233_modular_form.txt
23082: 234_debugoutform.txt
23083: 235_fastform.TXT
23084: 236_componentpower.txt
23085: 236_componentpower_back.txt
23086: 237_pas_4forms.txt
23087: 238_lottogen_form.txt
23088: 239_pas_sierpinski.txt
23089: 239_pas_sierpinski2.txt
23090: 240_unitGlobal_tester.txt
23091: 241_db3_sql_tutorial.txt
23092: 241_db3_sql_tutorial2.txt
23093: 241_db3_sql_tutorial2fix.txt
23094: 241_db3_sql_tutorial3.txt
23095: 241_db3_sql_tutorial3connect.txt
23096: 241_db3_sql_tutorial3_fptest.txt
23097: 241_RTL_SET2.txt
23098: 241_RTL_SET2_tester.txt
23099: 242_Component_Control.txt

382_GRMATH.TXT
382_GRMATH_PI_Proof.TXT
382_GRMATH_Riemann.TXT
383_MDAC_DCOM.txt
384_TeamViewerID.TXT
386_InternetRadio.TXT
387_fulltextfinder.txt
387_fulltextfinder_cleancode.txt
387_fulltextfinder_fast.txt
387_fulltext_getscripttest.txt
388_TCPServerSock.TXT
388_TCPServerSock2.TXT
388_TCPServerSockClient.TXT
389_TAR_Archive.TXT
389_TAR_Archive_test.TXT
389_TAR_Archive_test2.TXT
390_Callback3.TXT
390_Callback3Rec.TXT
390_CallbackClean.TXT
390_StringlistHTML.TXT
391_ToDo_List.TXT
392_Barcode.TXT
392_Barcode2.TXT
392_Barcode23.TXT
392_Barcode2scholz.TXT
392_Barcode3scholz.TXT
393_QRCode.TXT
393_QRCode2.TXT
393_QRCode2Direct.TXT
393_QRCode2DirectIndy.TXT
393_QRCode2Direct_detlef.TXT
393_QRCode3.TXT
394_networkgraph.TXT
394_networkgraph_depwalkutilstest.TXT
394_networkgraph_depwalkutilstest2.TXT
395_USBController.TXT
396_Sort.TXT
397_Hotlog.TXT
397_Hotlog2.TXT
398_ustrings.txt
399_form_templates.txt
400_fploottchart.TXT
400_fploottchart2.TXT
400_fploottchart2teetest.TXT
400_QRCodeMarket.TXT
401_tilerun.txt
402_richedit2.txt
403_outlookspy.txt
404_simplebrowser.txt
405_datefinder_today.txt
406_portscan.txt
407_indydemo.txt
408_testroboter.txt
409_excel_control.txt
410_keyboardevent.txt
411_json_test.txt
412_Zeosutils.txt
413_listview2.txt
414_avrdude_flash.txt
415_avrdude_writehex.txt
416_sonar_startscriptEKON.TXT
416_sonar_startscriptEKON_reporting.TXT
417_GRMATH_PI_Proof2.TXT
418_functional_paradigm.txt
419_archimedes_spiral.txt
419_archimedes_spiral2.txt
420_archimedes_arduino.txt
420_Lissajous.txt
421_PI_Power.TXT
421_PI_Power2.TXT
422_world_bitboxx.txt
423_game_of_life.TXT
423_game_of_life2.TXT
423_game_of_life3.TXT
423_game_of_life3_test.TXT
423_game_of_life4.TXT
423_game_of_life4_kryptum.TXT
424_opengl_tester.txt
425_reversi_game.txt
426_IB_Utils.TXT
427_IBDatabase.TXT
428_SortGrid.TXT
429_fileclass.txt
430_fileoperation.txt
430_fileoperation_tester.txt
431_performance_index.txt
432_shortstring_routines.txt
433_video_avicap.txt
433_video_avicap2.txt

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23100: 243_tutorial_loader.txt          434_GSM_module.TXT
23101: 244_script_loader_loop.txt      435_httpcommon.txt
23102: 245_formapp2.txt               436_GraphicSplitter.txt
23103: 245_formapp2_tester.txt        436_GraphicSplitter_form.txt
23104: 245_formapp2_testerX.txt       436_GraphicSplitter_form2.txt
23105: 246_httpapp.txt               436_teetest_screen.TXT
23106: 247_datecalendar.txt          436_teetest_screen2.TXT
23107: 248_ASCII_Grid2_sorted.TXT    437_WinAPItop.txt
23108: 249_picture_grid.TXT          437_WinAPItop_Firebirdtester.txt
23109: 250_tipsandtricks2.txt        438_OvcInternational.txt
23110: 250_tipsandtricks3.txt        439_AsyncFreeDemo.txt
23111: 250_tipsandtricks3api.txt     439_AsyncFreeDemoForm.txt
23112: 250_tipsandtricks3_admin_elevation.txt 440_DLL_Tutor.txt
23113: 250_tipsandtricks3_tester.txt 440_DLL_Tutor2.txt
23114: 250_tipsandtricks4_tester.txt 440_XML_Tutor.txt
23115: 250_tipsandtricks4_tester2.txt 440_XML_Tutor2.txt
23116: 251_compare_noise_gauss.txt   441_make_app.txt
23117: 251_whitenoise.txt            442_arduino_rgb_led.txt
23118: 251_whitenoise2.txt           443_webserver_arduino_rgb_light.txt
23119: 252_hilbert_turtle.txt        443_webserver_arduino_rgb_light4.txt
23120: 252_pas_hilbert.txt          444_webserver_arduino3ibz_rgb_led_basta.txt
23121: 253_opearatingsystem3.txt     445_datagrid.txt
23122: 254_dynarrays.txt            445_datagrid2.txt
23123: 255_einstein.txt             445_datagrid_android_arduino.txt
23124: 256_findconsts_of_EXE.txt    446_arduino_timer.txt
23125: 256_findfunctions2_of_EXE.txt 447_patternFrm_mx3.txt
23126: 256_findfunctions2_of_EXEaverp.txt 448_Synapse.txt
23127: 256_findfunctions2_of_EXEspec.txt 448_Synapse2.txt
23128: 256_findfunctions3.txt       449_dweb_start_tester.txt
23129: 256_findfunctions_of_EXE.txt  450_Synapse_HTTPS.txt
23130: 257_AES_Cipher.txt           450_Synapse_Mime.txt
23131: 258_AES_cryptobox.txt        450_Synapse_ScanPing.txt
23132: 258_AES_cryptobox2.txt       451_ocx_player.txt
23133: 258_AES_cryptobox2_passdlg.txt 451_OCX_WinPlayer2.txt
23134: 259_AES_crypt_directory.txt  452_dbtreeview.txt
23135: 260_sendmessage_2.TXT       452_dbtreeview2.txt
23136: 260_sendmessage_beta.TXT    453_stdfuncs.txt
23137: 261_probability.txt          454_fileStream.txt
23138: 262_mxoutputdemo4.txt        455_functionfun.txt
23139: 263_async_sound.txt          455_functionfun2.txt
23140: 264_vclutils.txt             455_functionfun2_test.txt
23141: 264_VCL_utils2.txt          457_ressource_grid.txt
23142: 265_timer_API.txt           458_atomimageX.txt
23143: 266_serial_interface.txt    459_cindyfunc.txt
23144: 266_serial_interface2.txt   459_cindyfunc2.txt
23145: 266_serial_interface3.txt   460_TopTenFunctions.txt
23146: 267_ackermann_rec.txt       461_sqlform_calwin.txt
23147: 267_ackermann_variants.txt  462_caesarcipher.txt
23148: 268_DBGrid_tree.txt          463_global_exception.txt
23149: 269_record_grid.TXT         464_function_procedure.txt
23150: 270_Jedi_FunctionPower.txt  464_function_procedure2.txt
23151: 270_Jedi_FunctionPowerTester.txt 464_function_procedure3.txt
23152: 271_closures_study.txt      465_U_HexView.txt
23153: 271_closures_study_workingset2.txt 466_moon.txt
23154: 272_pas_function_show.txt   466_moon_inputquery.txt
23155: 273_pas_function_show2.txt  467_cardmagic.txt
23156: 274_library_functions.txt   467_helmholtz_graphic.txt
23157: 275_turtle_language.txt      468_URLMon.txt
23158: 275_turtle_language_save.txt 468_URLMon2.txt
23159: 276_save_algo.txt           469_formarrow.txt
23160: 276_save_algo2.txt          469_formarrow_datepicker.txt
23161: 277_functionsfor39.txt      469_formarrow_datepicker_ibz_result.txt
23162: 278_DB_Dialogs.TXT          469_ibzresult.txt
23163: 279_hexer2.TXT              470_DFFUtils_compiled.txt
23164: 279_hexer2macro.TXT         470_DFFUtils_ScrollingLED.txt
23165: 279_hexer2macroback.TXT     470_Oscilloscope.txt
23166: 280_UML_process.txt          470_Oscilloscope_code.txt
23167: 280_UML_process_knabe2.txt  471_cardmagic.txt
23168: 280_UML_process_knabe3.txt  471_cardmagic2.txt
23169: 280_UML_process_TIM_Botzenhardt.txt 472_allcards.txt
23170: 280_UML_TIM_Seitz.txt       473_comboset.txt
23171: 281_picturepuzzle.txt       474_wakeonlan.txt
23172: 281_picturepuzzle2.txt      474_wakeonlan2.txt
23173: 281_picturepuzzle3.txt      476_getscriptest.txt
23174: 281_picturepuzzle4.txt      477_filenameonly.txt
23175: 479_inputquery.txt          480_regex_pathfinder.txt
23176: 480_regex_pathfinder2.txt   481_processList.txt
23177: 482_processPipe.txt          482_processPipeGCC.txt
23178: 483_PathFuncTest_mx.txt     484_filefinder3.txt
23179: 485_InnoFunc.txt            486_VideoGrabber.txt
23180: 487_asyncKeyState.txt        488_asyncTerminal.txt
23181: 489_simpleComport.txt       490_webCamproc.txt
23182: 491_analogometer.txt        492_snowflake2.txt
23183: 493_gadgets.txt             495_fourierfreq.txt
23184: 496_InstallX.txt            497_LED.txt
23185: 498_UnitTesting.txt          499_mulu42.txt
23186: 500_diceoflifes.txt          501_firebird_datasnap_tests.txt
23187: 502_findalldocs.txt          503_led_switch.txt
23188: 504_fileclass.txt            505_debug.txt

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23189: 506_colormatrix.txt          507_derutils.txt
23190: 508_simplecomportmorse.txt   509_GEOMap2.txt
23191: 509_509_GEOMap2_SReverse.TXT 510_510_bonn_gpsdata_mX4.pas
23192: 511_LEDLabel.txt           512_LED_moon.txt
23193: 513_StreamIntegration.txt   514_LED_moon2.txt
23194: 515_ledclock3.txt          516_mapview.txt
23195: 517_animation7.txt         518_sensors_meter.txt
23196: 519_powtills.txt          520_run bytecode.txt
23197: 521_iputils2.txt          522_getgeocode.txt
23198: 523_NMEA.txt              524_NAV_Utils.txt
23199: 525_GEO84s.txt            526_Compass_meter.txt
23200: 527_GPSDemo.txt           528_linescount.txt
23201: 529_profilertest.txt      530_3DLab.txt
23202:
23203:
23204: Web Script Examples:
23205:
23206: http://www.softwareschule.ch/examples/performer.txt';
23207: http://www.softwareschule.ch/examples/turtle.txt';
23208: http://www.softwareschule.ch/examples/SQLExport.txt';
23209: http://www.softwareschule.ch/examples/Richter.txt';
23210: http://www.softwareschule.ch/examples/checker.txt';
23211: http://www.softwareschule.ch/examples/demoscript.txt';
23212: http://www.softwareschule.ch/examples/ibzresult.txt';
23213: http://www.softwareschule.ch/examples/performindex.txt
23214: http://www.softwareschule.ch/examples/processlist.txt
23215: http://www.softwareschule.ch/examples/game.txt
23216: http://www.softwareschule.ch/examples/GEOGPS.txt
23217: http://www.softwareschule.ch/examples/turtle2.txt
23218:
23219:
23220:
23221: Delphi Basics Run Time Library listing
23222: ****
23223: A
23224: Compiler Directive $A Determines whether data is aligned or packed
23225: Compiler Directive $Align Determines whether data is aligned or packed
23226: Compiler Directive $AppType Determines the application type : GUI or Console
23227: Procedure SysUtils Abort Aborts the current processing with a silent exception
23228: Function System Abs Gives the absolute value of a number (-ve sign is removed)
23229: Directive Abstract Defines a class method only implemented in subclasses
23230: Variable System AbstractErrorProc Defines a proc called when an abstract method is called
23231: Function System Addr Gives the address of a variable, function or procedure
23232: Keyword And Boolean and or bitwise and of two arguments
23233: Type System AnsiChar A character type guaranteed to be 8 bits in size
23234: Function SysUtils AnsiCompareStr Compare two strings for equality
23235: Function SysUtils AnsiCompareText Compare two strings for equality, ignoring case
23236: Function StrUtils AnsiContainsStr Returns true if a string contains a substring
23237: Function StrUtils AnsiEndsStr Returns true if a string ends with a substring
23238: Function StrUtils AnsiIndexStr Compares a string with a list of strings - returns match index
23239: Function StrUtils AnsiLeftStr Extracts characters from the left of a string
23240: Function SysUtils AnsiLowerCase Change upper case characters in a string to lower case
23241: Function StrUtils AnsiMatchStr Returns true if a string exactly matches one of a list of strings
23242: Function StrUtils AnsiMidStr Returns a substring from the middle characters of a string
23243: Function StrUtils AnsiPos Find the position of one string in another
23244: Function StrUtils AnsiReplaceStr Replaces a part of one string with another
23245: Function StrUtils AnsiReverseString Reverses the sequence of letters in a string
23246: Function StrUtils AnsiRightStr Extracts characters from the right of a string
23247: Function StrUtils AnsiStartsStr Returns true if a string starts with a substring
23248: Type System AnsiString A data type that holds a string of AnsiChars
23249: Function SysUtils AnsiUpperCase Change lower case characters in a string to upper case
23250: Procedure System Append Open a text file to allow appending of text to the end
23251: Procedure SysUtils AppendStr Concatenate one string onto the end of another
23252: Function Math ArcCos The Arc Cosine of a number, returned in radians
23253: Function Math ArcSin The Arc Sine of a number, returned in radians
23254: Function System ArcTan The Arc Tangent of a number, returned in radians
23255: Keyword Array A data type holding indexable collections of data
23256: Keyword As Used for casting object references
23257: Procedure System Assign Assigns a file handle to a binary or text file
23258: Function System Assigned Returns true if a reference is not nil
23259: Procedure System AssignFile Assigns a file handle to a binary or text file
23260: Procedure Printers AssignPrn Treats the printer as a text file - an easy way of printing text
23261:
23262: B
23263: Compiler Directive $B Whether to short cut and and or operations
23264: Compiler Directive $BoolEval Whether to short cut and and or operations
23265: Procedure SysUtils Beep Make a beep sound
23266: Keyword Begin Keyword that starts a statement block
23267: Function System BeginThread Begins a separate thread of code execution
23268: Procedure System BlockRead Reads a block of data records from an untyped binary file
23269: Procedure System BlockWrite Writes a block of data records to an untyped binary file
23270: Type System Boolean Allows just True and False values
23271: Function Classes Bounds Create a TRect value from top left and size values
23272: Procedure System Break Forces a jump out of a single loop
23273: Type System Byte An integer type supporting values 0 to 255
23274:
23275: C
23276: Type System Cardinal The basic unsigned integer type
23277: Keyword Case A mechanism for acting upon different values of an Ordinal

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23278: **Function** StdConvs CelsiusToFahrenheit Convert a celsius temperature into fahrenheit
23279: **Function** SysUtils ChangeFileExt Change the extension part **of** a **file** name
23280: **Type** System Char Variable **type** holding a single character
23281: **Procedure** System ChDir Change the working drive plus path **for** a specified drive
23282: **Function** System Chr Convert an integer into a character
23283: Keyword **Class** Starts the declaration **of** a **type** **of** **object** **class**
23284: **Procedure** System Close Closes an open **file**
23285: **Procedure** System CloseFile Closes an open **file**
23286: Variable System CmdLine Holds the execution text used **to** start the current **program**
23287: **Type** System Comp A **64** bit signed integer
23288: **Function** SysUtils CompareStr Compare two strings **to** see which **is** greater than the other
23289: **Function** SysUtils CompareText Compare two strings **for** equality, ignoring **case**
23290: **Function** Math CompareValue Compare numeric values **with** a tolerance
23291: **Function** System Concat Concatenates one **or** more strings into one **string**
23292: Keyword **Const** Starts the definition **of** fixed data values
23293: Keyword **Constructor** Defines the method used **to** create an **object** from a **class**
23294: **Procedure** System Continue Forces a jump **to** the next iteration **of** a loop
23295: **Function** ConvUtils Convert Convert one measurement value **to** another
23296: **Function** System Copy Create a copy **of** part **of** a **string** **or** an **array**
23297: **Function** System Cos The Cosine **of** a number
23298: **Function** SysUtils CreateDir Create a directory
23299: **Type** System Currency A floating point **type** **with** **4** decimals used **for** financial values
23300: Variable SysUtils CurrencyDecimals Defines decimal digit count **in** the Format **function**
23301: Variable SysUtils CurrencyFormat Defines currency **string** placement **in** curr display functions
23302: Variable SysUtils CurrencyString The currency **string** used **in** currency display functions
23303: **Function** SysUtils CurrToStr Convert a currency value **to** a **string**
23304: **Function** SysUtils CurrToStrF Convert a currency value **to** a **string** **with** formatting
23305:
23306: D
23307: Compiler Directive **\$D** Determines whether application debug information **is** built
23308: Compiler Directive **\$DebugInfo** Determines whether application debug information **is** built
23309: Compiler Directive **\$Define** Defines a compiler directive symbol **-as** used by IfDef
23310: Compiler Directive **\$DefinitionInfo** Determines whether application symbol information **is** built
23311: **Function** SysUtils Date Gives the current date
23312: Variable SysUtils DateSeparator The character used **to** separate display date fields
23313: **Function** SysUtils DateTimeToFileDate Convert a TDateTime value **to** a **File** date/time format
23314: **Function** SysUtils DateTimeToStr Converts TDateTime date **and** time values **to** a **string**
23315: **Procedure** SysUtils DateTimeToString Rich formatting **of** a TDateTime variable into a **string**
23316: **Function** SysUtils DateToStr Converts a TDateTime date value **to** a **string**
23317: **Function** DateUtils DayOfTheMonth Gives day **of** month index **for** a TDateTime value (ISO 8601)
23318: **Function** DateUtils DayOffTheWeek Gives day **of** week index **for** a TDateTime value (ISO 8601)
23319: **Function** DateUtils DayOfTheYear Gives the day **of** the year **for** a TDateTime value (ISO 8601)
23320: **Function** SysUtils DayOfWeek Gives day **of** week index **for** a TDateTime value
23321: **Function** DateUtils DaysBetween Gives the whole number **of** days between **2** dates
23322: **Function** DateUtils DaysInAMonth Gives the number **of** days **in** a month
23323: **Function** DateUtils DaysInAYear Gives the number **of** days **in** a year
23324: **Function** DateUtils DaySpan Gives the fractional number **of** days between **2** dates
23325: **Procedure** System Dec Decrement an ordinal variable
23326: Variable SysUtils DecimalSeparator The character used **to** display the decimal point
23327: **Procedure** SysUtils DecodeDate Extracts the year, month, day values from a TDateTime **var**.
23328: **Procedure** DateUtils DecodeDateTime Breaks a TDateTime variable into its date/time parts
23329: **Procedure** SysUtils DecodeTime Break a TDateTime value into individual time values
23330: Directive **Default** Defines **default** processing **for** a **property**
23331: **Function** Math DegToRad Convert a degrees value **to** radians
23332: **Procedure** System Delete Delete a section **of** characters from a **string**
23333: **Function** SysUtils Deletefile Delete a **file** specified by its **file** name
23334: Keyword **Destructor** Defines the method used **to** destroy an **object**
23335: **Function** SysUtils DirectoryExists Returns true **if** the given directory exists
23336: **Function** SysUtils DiskFree Gives the number **of** free bytes **on** a specified drive
23337: **Function** SysUtils DiskSize Gives the size **in** bytes **of** a specified drive
23338: **Procedure** System Dispose Dispose **of** storage used by a pointer **type** variable
23339: Keyword **Div** Performs integer division, discarding the remainder
23340: Keyword **Do** Defines the start **of** some controlled action
23341: **Type** System Double A floating point **type** supporting about **15** digits **of** precision
23342: Keyword **DownTo** Prefixes an decremental **for** loop target value
23343: **Function** StrUtils DupeString Creates a **string** containing copies **of** a substring
23344: Directive **Dynamic** Allows a **class** method **to** be overriden **in** derived classes
23345:
23346: E
23347: Compiler Directive **\$Else** Starts the alternate section **of** an IfDef **or** IfNDef
23348: Compiler Directive **\$EndIf** Terminates conditional code compilation
23349: Compiler Directive **\$ExtendedSyntax** Controls some **Pascal** extension handling
23350: Keyword **Else** Starts false section **of** if, case **and** try statements
23351: **Function** SysUtils EncodeDate Build a TDateTime value from year, month **and** day values
23352: **Function** DateUtils EncodeDateTime Build a TDateTime value from day **and** time values
23353: **Function** SysUtils EncodeTime Build a TDateTime value from hour, min, sec **and** msec values
23354: Keyword **End** Keyword that terminates statement blocks
23355: **Function** DateUtils EndOfDay Generate a TDateTime value set **to** the very **end** **of** a day
23356: **Function** DateUtils EndOfAMonth Generate a TDateTime value set **to** the very **end** **of** a month
23357: **Procedure** System EndThread Terminates a thread **with** an exit code
23358: **Function** System Eof Returns true **if** a **file** opened **with** Reset **is** at the **end**
23359: **Function** System Eoln Returns true **if** the current text **file** **is** pointing at a line **end**
23360: **Procedure** System Erase Erase a **file**
23361: Variable System ErrorAddr Sets the error address when an application terminates
23362: Keyword **Except** Starts the error trapping clause **of** a **Try** statement
23363: **Procedure** System Exclude Exclude a value **in** a **set** variable
23364: **Procedure** System Exit Exit abruptly **from** a **function** **or** **procedure**
23365: Variable System ExitCode Sets the return code when an application terminates
23366: **Function** System Exp Gives the exponent **of** a number

23367: Directive System **Export** Makes a **function or procedure** in a DLL externally available
 23368: **Type** System Extended The floating point **type** with the highest capacity **and** precision
 23369: **Function** SysUtils ExtractFileDir Extracts the dir part **of** a full **file** name
 23370: **Function** SysUtils ExtractFileDrive Extracts the drive part **of** a full **file** name
 23371: **Function** SysUtils ExtractFileName Extracts the extension part **of** a full **file** name
 23372: **Function** SysUtils ExtractFilePath Extracts the path part **of** a full **file** name
 23373: **Function** SysUtils ExtractFilePos Gives the **file** position **in** a binary **or** text **file**
 23374: **Function** StdConv FahrenheitToCelsius Convert a fahrenheit temperature into celsius
 23375: **Keyword** File Defines a typed **or** untyped **file**
 23376: **Function** SysUtils FileAge Get the last modified date/time **of** a **file** without opening it
 23377: **Function** SysUtils FileDateToDateTime Converts a **file** date/time format **to** a TDateTime value
 23378: **Function** SysUtils FileExists Returns true **if** the given **file** exists
 23379: **Function** SysUtils FileGetAttr Gets the attributes **of** a **file**
 23380: **Variable** System FileMode Defines how Reset opens a binary **file**
 23381: **Function** SysUtils FileGetSize Gives the size **in** records **of** an open **file**
 23382: **Procedure** System FillChar Fills **out** a section **of** storage **with** a fill character **or** byte value
 23383: **Function** SysUtils FindClose Closes a successful FindFirst **file** search
 23384: **Function** SysUtils Finally Starts the unconditional code section **of** a Try statement
 23385: **Function** SysUtils FindCmdLineSwitch Determine whether a certain parameter switch was passed
 23386: **Function** SysUtils FindFirst Finds all files matching a **file** mask **and** attributes
 23387: **Function** SysUtils FindNext Find the next **file** after a successful FindFirst
 23388: **Function** SysUtils FloatToStr Convert a floating point value **to** a **string**
 23389: **Function** SysUtils FloatToStrF Convert a floating point value **to** a **string** **with** formatting
 23390: **Procedure** System Flush Flushes buffered text **file** data **to** the **file**
 23391: **Function** SysUtils ForceDirectories Create a new path **of** directories
 23392: **Function** SysUtils Format Rich formatting **of** numbers **and** text **into** a **string**
 23393: **Function** SysUtils FormatCurr Rich formatting **of** a currency value **into** a **string**
 23394: **Function** SysUtils FormatDateTime Rich formatting **of** a TDateTime variable **into** a **string**
 23395: **Function** SysUtils FormatFloat Rich formatting **of** a floating point number **into** a **string**
 23396: **Function** SysUtils Frac The fractional part **of** a floating point number
 23397: **Procedure** SysUtils FreeAndNil Free memory **for** an **object** **and** set it **to** nil
 23398: **Procedure** System FreeMem Free memory storage used by a variable
 23399: **Keyword** System Function Defines a subroutine that returns a value
 23400: **Procedure** Goto Forces a jump **to** a **label**, regardless **of** nesting
 23401: **Procedure** H Compiler Directive \$H Treat **string** types **as** AnsiString **or** ShortString
 23402: **Compiler Directive** \$Hints Determines whether Delphi shows compilation hints
 23403: **Procedure** System Halt Terminates the **program** **with** an optional dialog
 23404: **Function** System Hi Returns the hi-order byte **of** a (2 byte) Integer
 23405: **Function** System High Returns the highest value **of** a **type** **or** variable
 23406: **Procedure** Goto
 23407: **Procedure** I Compiler Directive \$I Allows code **in** an include **file** **to** be incorporated into a Unit
 23408: **Procedure** IfDef Executes code **if** a conditional symbol has been defined
 23409: **Procedure** IfNDef Executes code **if** a conditional symbol has **not** been defined
 23410: **Procedure** IfOpt Tests **for** the state **of** a Compiler directive
 23411: **Procedure** Include Allows code **in** an include **file** **to** be incorporated into a Unit
 23412: **Compiler Directive** \$IOChecks When **on**, an IO operation error throws an exception
 23413: **Keyword** If Starts a conditional expression **to** determine what **to** do next
 23414: **Keyword** Implementation Starts the implementation (code) section **of** a Unit
 23415: **Procedure** Inc Used to test if a value **is** a member **of** a set
 23416: **Procedure** IncDay Increments a TDateTime variable **by** + **or** - number **of** days
 23417: **Procedure** Include Include a value **in** a set variable
 23418: **Function** IncMillisecond Increments a TDateTime variable **by** + **or** - number **of** milliseconds
 23419: **Function** IncMinute Increments a TDateTime variable **by** + **or** - number **of** minutes
 23420: **Function** IncMonth Increments a TDateTime variable **by** a number **of** months
 23421: **Function** IncSecond Increments a TDateTime variable **by** + **or** - number **of** seconds
 23422: **Function** IncYear Increments a TDateTime variable **by** a number **of** years
 23423: **Directive** Index Principally defines indexed class data properties
 23424: **Constant** Math Infinity Floating point value **of** infinite size
 23425: **Keyword** Inherited Used to call the parent class constructor **or** destructor method
 23426: **Variable** System Input Defines the standard input text file
 23427: **Function** InputBox Display a dialog that asks **for** user text input, **with** default
 23428: **Function** InputQuery Display a dialog that asks **for** user text input
 23429: **Procedure** Insert Insert a string **into** another string
 23430: **Function** Int The integer part **of** a floating point number **as** a float
 23431: **Type** System Int64 A 64 bit sized integer - the largest in Delphi
 23432: **Type** System Integer The basic Integer type
 23433: **Keyword** Interface Used **for** Unit external definitions, **and** as a Class skeleton
 23434: **Function** IntToHex Convert an Integer **into** a hexadecimal string
 23435: **Function** IntToStr Convert an integer **into** a string
 23436: **Function** IOResult Holds the return code **of** the last I/O operation
 23437: **Keyword** Is Tests whether an object **is** a certain class **or** ascendant

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23456: Function Math IsInfinite Checks whether a floating point number is infinite
23457: Function SysUtils IsLeapYear Returns true if a given calendar year is a leap year
23458: Function System IsMultiThread Returns true if the code is running multiple threads
23459: Function Math IsNaN Checks to see if a floating point number holds a real number
23460:
23461: L
23462: Compiler Directive $L Determines what application debug information is built
23463: Compiler Directive $LocalSymbols Determines what application debug information is built
23464: Compiler Directive $LongStrings Treat string types as AnsiString or ShortString
23465: Function SysUtils LastDelimiter Find the last position of selected characters in a string
23466: Function System Length Return the number of elements in an array or string
23467: Function System Ln Gives the natural logarithm of a number
23468: Function System Lo Returns the low-order byte of a (2 byte) Integer
23469: Function Math Log10 Gives the log to base 10 of a number
23470: Variable SysUtils LongDateFormat Long version of the date to string format
23471: Variable SysUtils LongDayNames An array of days of the week names, starting 1 = Sunday
23472: Type System LongInt An Integer whose size is guaranteed to be 32 bits
23473: Variable SysUtils LongMonthNames An array of days of the month names, starting 1 = January
23474: Variable SysUtils LongTimeFormat Long version of the time to string format
23475: Type System LongWord A 32 bit unsigned integer
23476: Function System Low Returns the lowest value of a type or variable
23477: Function SysUtils LowerCase Change upper case characters in a string to lower case
23478:
23479: M
23480: Compiler Directive $MinEnumSize Sets the minimum storage used to hold enumerated types
23481: Function Math Max Gives the maximum of two integer values
23482: Constant System MaxInt The maximum value an Integer can have
23483: Constant System MaxLongInt The maximum value an LongInt can have
23484: Function Math Mean Gives the average for a set of numbers
23485: Function Dialogs MessageDlg Displays a message, symbol, and selectable buttons
23486: Function Dialogs MessageDlgPos Displays a message plus buttons at a given screen position
23487: Function Math Min Gives the minimum of two integer values
23488: Constant SysUtils MinsPerDay Gives the number of minutes in a day
23489: Procedure System MkDir Make a directory
23490: Keyword Mod Performs integer division, returning the remainder
23491: Constant SysUtils MonthDays Gives the number of days in a month
23492: Function DateUtils MonthOfTheYear Gives the month of the year for a TDateTime value
23493: Procedure System Move Copy bytes of data from a source to a destination
23494:
23495: N
23496: Constant Math NaN Not a real number
23497: Variable SysUtils NegCurrFormat Defines negative amount formatting in currency displays
23498: Procedure System New Create a new pointer type variable
23499: Constant System Nil A pointer value that is defined as undetermined
23500: Keyword Not Boolean Not or bitwise not of one arguments
23501: Function SysUtils Now Gives the current date and time
23502: Variable Variants Null A variable that has no value
23503:
23504: O
23505: Compiler Directive $O Determines whether Delphi optimises code when compiling
23506: Compiler Directive $Optimization Determines whether Delphi optimises code when compiling
23507: Compiler Directive $OverFlowChecks Determines whether Delphi checks integer and enum bounds
23508: Keyword System Object Allows a subroutine data type to refer to an object method
23509: Function System Odd Tests whether an integer has an odd value
23510: Keyword Of Linking keyword used in many places
23511: Keyword On Defines exception handling in a Try Except clause
23512: Keyword Or Boolean or or bitwise or of two arguments
23513: Function System Ord Provides the Ordinal value of an integer, character or enum
23514: Directive Out Identifies a routine parameter for output only
23515: Variable System Output Defines the standard output text file
23516: Directive Overload Allows 2 or more routines to have the same name
23517: Directive Override Defines a method that replaces a virtual parent class method
23518:
23519: P
23520: Keyword Packed Compacts complex data types into minimal storage
23521: Type System PAnsiChar A pointer to an AnsiChar value
23522: Type System PAnsiString Pointer to an AnsiString value
23523: Function System ParamCount Gives the number of parameters passed to the current program
23524: Function System ParamStr Returns one of the parameters used to run the current program
23525: Type System PChar A pointer to an Char value
23526: Type System PCurrency Pointer to a Currency value
23527: Type System PDateTime Pointer to a TDateTime value
23528: Type System PExtended Pointer to a Extended floating point value
23529: Function System Pi The mathematical constant
23530: Type System PInt64 Pointer to an Int64 value
23531: Function Classes Point Generates a TPoint value from X and Y values
23532: Type System Pointer Defines a general use Pointer to any memory based data
23533: Function Classes PointsEqual Compares two TPoint values for equality
23534: Function System Pos Find the position of one string in another
23535: Function System Pred Decrement an ordinal variable
23536: Function Printers Printer Returns a reference to the global Printer object
23537: Directive Private Starts the section of private data and methods in a class
23538: Keyword System Procedure Defines a subroutine that does not return a value
23539: Procedure FileCtrl ProcessPath Split a drive/path/filename string into its constituent parts
23540: Keyword System Program Defines the start of an application
23541: Function Dialogs PromptForFileName Shows a dialog allowing the user to select a file
23542: Keyword System Property Defines controlled access to class fields
23543: Directive Protected Starts a section of class private data accessible to sub-classes
23544: Type System PShortString A pointer to an ShortString value

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23545: Type System PString Pointer to a String value
23546: Function Types PtInRect Tests to see if a point lies within a rectangle
23547: Directive Public Starts an externally accessible section of a class
23548: Directive Published Starts a published externally accessible section of a class
23549: Type System PVariant Pointer to a Variant value
23550: Type System PWideChar Pointer to a WideChar
23551: Type System PWideString Pointer to a WideString value
23552:
23553: Q
23554: Compiler Directive $Q Determines whether Delphi checks integer and enum bounds
23555:
23556: R
23557: Compiler Directive $R Determines whether Delphi checks array bounds
23558: Compiler Directive $RangeChecks Determines whether Delphi checks array bounds
23559: Compiler Directive $ReferenceInfo Determines whether symbol reference information is built
23560: Compiler Directive $Resource Defines a resource file to be included in the application linking
23561: Function Math RadToDeg Converts a radian value to degrees
23562: Keyword Raise Raise an exception
23563: Function System Random Generate a random floating point or integer number
23564: Procedure System Randomize Reposition the Random number generator next value
23565: Function Math RandomRange Generate a random integer number within a supplied range
23566: Variable System RandSeed Reposition the Random number generator next value
23567: Procedure System Read Read data from a binary or text file
23568: Procedure System ReadLn Read a complete line of data from a text file
23569: Type System Real A floating point type supporting about 15 digits of precision
23570: Type System Real48 The floating point type with the highest capacity and precision
23571: Procedure System ReallocMem Reallocate an existing block of storage
23572: Function DateUtils RecodeDate Change only the date part of a TDateTime variable
23573: Function DateUtils RecodeTime Change only the time part of a TDateTime variable
23574: Keyword Record A structured data type - holding fields of data
23575: Function Classes Rect Create a TRect value from 2 points or 4 coordinates
23576: Function SysUtils RemoveDir Remove a directory
23577: Procedure System Rename Rename a file
23578: Function SysUtils RenameFile Rename a file or directory
23579: Keyword Repeat Repeat statements until a termination condition is met
23580: Procedure SysUtils ReplaceDate Change only the date part of a TDateTime variable
23581: Procedure SysUtils ReplaceTime Change only the time part of a TDateTime variable
23582: Procedure System Reset Open a text file for reading, or binary file for read/write
23583: Variable System Result A variable used to hold the return value from a function
23584: Procedure System ReWrite Open a text or binary file for write access
23585: Procedure System RmDir Remove a directory
23586: Function System Round Rounds a floating point number to an integer
23587: Procedure System RunError Terminates the program with an error dialog
23588:
23589: S
23590: Constant SysUtils SecsPerDay Gives the number of seconds in a day
23591: Procedure System Seek Move the pointer in a binary file to a new record position
23592: Function System SeekEOF Skip to the end of the current line or file
23593: Function System SeekEOLN Skip to the end of the current line or file
23594: Function FileCtrl SelectDirectory Display a dialog to allow user selection of a directory
23595: Variable System Self Hidden parameter to a method - refers to the containing object
23596: Keyword Set Defines a set of up to 255 distinct values
23597: Function SysUtils SetCurrentDir Change the current directory
23598: Procedure System SetLength Changes the size of a string, or the size(s) of an array
23599: Procedure System SetString Copies characters from a buffer into a string
23600: Keyword Shl Shift an integer value left by a number of bits
23601: Variable SysUtils ShortDateFormat Compact version of the date to string format
23602: Variable SysUtils ShortDayNames An array of days of the week names, starting 1 = Sunday
23603: Type System ShortInt An integer type supporting values -128 to 127
23604: Variable SysUtils ShortMonthNames An array of days of the month names, starting 1 = Jan
23605: Type System ShortString Defines a string of up to 255 characters
23606: Variable SysUtils ShortTimeFormat Short version of the time to string format
23607: Procedure Dialogs ShowMessage Display a string in a simple dialog with an OK button
23608: Procedure Dialogs ShowMessageFmt Display formatted data in a simple dialog with an OK button
23609: Procedure Dialogs ShowMessagePos Display a string in a simple dialog at a given screen position
23610: Keyword Shr Shift an integer value right by a number of bits
23611: Function System Sin The Sine of a number
23612: Type System Single The smallest capacity and precision floating point type
23613: Function System SizeOf Gives the storage byte size of a type or variable
23614: Function System Slice Creates a slice of an array as an Open Array parameter
23615: Type System SmallInt An Integer type supporting values from -32768 to 32767
23616: Function System Sqr Gives the square of a number
23617: Function System Sqrt Gives the square root of a number
23618: Procedure System Str Converts an integer or floating point number to a string
23619: Type System String A data type that holds a string of characters
23620: Function System StringOfChar Creates a string with one character repeated many times
23621: Function SysUtils StringReplace Replace one or more substrings found within a string
23622: Function System StringToWideChar Converts a normal string into a WideChar 0 terminated buffer
23623: Function SysUtils StrScan Searches for a specific character in a constant string
23624: Function SysUtils StrToCurr Convert a number string into a currency value
23625: Function SysUtils StrToDate Converts a date string into a TDateTime value
23626: Function SysUtils StrToDateTime Converts a date+time string into a TDateTime value
23627: Function SysUtils StrToFloat Convert a number string into a floating point value
23628: Function SysUtils StrToInt Convert an integer string into an Integer value
23629: Function SysUtils StrToInt64 Convert an integer string into an Int64 value
23630: Function SysUtils StrToInt64Def Convert a string into an Int64 value with default
23631: Function SysUtils StrToIntDef Convert a string into an Integer value with default
23632: Function SysUtils StrToTime Converts a time string into a TDateTime value
23633: Function StrUtils StuffString Replaces a part of one string with another

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23634: Function System Succ Increment an ordinal variable
23635: Function Math Sum Return the sum of an array of floating point values
23636:
23637: T
23638: Function Math Tan The Tangent of a number
23639: Type Classes TBits An object that can hold an infinite number of Boolean values
23640: Variable ConvUtils TConvFamily Defines a family of measurement types as used by Convert
23641: Type ConvUtils TConvType Defines a measurement type as used by Convert
23642: Type System TDateTime Data type holding a date and time value
23643: Type System Text Defines a file as a text file
23644: Type System TextFile Declares a file type for storing lines of text
23645: Type SysUtils TFloatFormat Formats for use in floating point number display functions
23646: Type SysUtils TFormatSettings A record for holding locale values for thread-safe functions
23647: Keyword Then Part of an if statement - starts the true clause
23648: Variable SysUtils ThousandSeparator The character used to display the thousands separator
23649: Keyword ThreadVar Defines variables that are given separate instances per thread
23650: Function SysUtils Time Gives the current time
23651: Variable SysUtils TimeAMString Determines AM value in DateTimeToString procedure
23652: Variable SysUtils TimePMString Determines PM value in DateTimeToString procedure
23653: Variable SysUtils TimeSeparator The character used to separate display time fields
23654: Function SysUtils TimeToStr Converts a TDateTime time value to a string
23655: Type Classes TList General purpose container of a list of objects
23656: Keyword To Prefixes an incremental for loop target value
23657: Type System TObject The base class type that is ancestor to all other classes
23658: Function DateUtils Tomorrow Gives the date tomorrow
23659: Type Dialogs TOpenDialog Displays a file selection dialog
23660: Type Types TPoint Holds X and Y integer values
23661: Type Dialogs TPrintDialog Class that creates a printer selection and control dialog
23662: Type Types TRect Holds rectangle coordinate values
23663: Type SysUtils TReplaceFlags Defines options for the StringReplace routine
23664: Function SysUtils Trim Removes leading and trailing blanks from a string
23665: Function SysUtils TrimLeft Removes leading blanks from a string
23666: Function SysUtils TrimRight Removes trailing blanks from a string
23667: Function System Trunc The integer part of a floating point number
23668: Procedure System Truncate Truncates a file size - removes all data after the current position
23669: Keyword Try Starts code that has error trapping
23670: Type Dialogs TSaveDialog Displays a dialog for selecting a save file name
23671: Type SysUtils TSearchRec Record used to hold data for FindFirst and FindNext
23672: Type Classes TStringList Holds a variable length list of strings
23673: Type SysUtils TSysCharSet Characters used by supplied string parsing functions
23674: Type System TThreadFunc Defines the function to be called by BeginThread
23675: Variable SysUtils TwoDigitYearCenturyWindow Sets the century threshold for 2 digit year string conversions
23676: Keyword Type Defines a new category of variable or process
23677:
23678:
23679: U
23680: Compiler Directive $UnDef Undefines a compiler directive symbol - as used by IfDef
23681: Keyword Unit Defines the start of a unit file - a Delphi module
23682: Keyword Until Ends a Repeat control loop
23683: Function System UpCase Convert a Char value to upper case
23684: Function SysUtils UpperCase Change lower case characters in a string to upper case
23685: Keyword Uses Declares a list of Units to be imported
23686:
23687: V
23688: Procedure System Val Converts number strings to integer and floating point values
23689: Keyword Var Starts the definition of a section of data variables
23690: Type System Variant A variable type that can hold changing data types
23691: Function Variants VarType Gives the current type of a Variant variable
23692: Constant Variants VarTypeMask Mask for the meta-type part of a Variant variable
23693: Directive Virtual Allows a class method to be overridden in derived classes
23694:
23695: W
23696: Compiler Directive $Warnings Determines whether Delphi shows compilation warnings
23697: Keyword While Repeat statements whilst a continuation condition is met
23698: Type System WideChar Variable type holding a single International character
23699: Function System WideCharToString Copies a null terminated WideChar string to a normal string
23700: Type System WideString A data type that holds a string of WideChars
23701: Keyword With A means of simplifying references to structured variables
23702: Type System Word An integer type supporting values 0 to 65535
23703: Function SysUtils WrapText Add line feeds into a string to simulate word wrap
23704: Procedure System Write Write data to a binary or text file
23705: Procedure System WriteLn Write a complete line of data to a text file
23706:
23707: X
23708: Compiler Directive $X Controls some Pascal extension handling
23709: Keyword Xor Boolean Xor or bitwise Xor of two arguments
23710:
23711: Y
23712: Compiler Directive $Y Determines whether application symbol information is built
23713: Function DateUtils Yesterday Gives the date yesterday
23714:
23715: Z
23716: Compiler Directive $Z Sets the minimum storage used to hold enumerated types
23717:
23718: mapX:
23719: if GetMAPX('html',ExePath+'cologne2mapX.html','cathedral cologne') then
23720: writeln('cologne map found');
23721: GetGeoMAP('html',ExePath+AFILENAME2,'dom cologne')
23722: writeln(GetMapXGeoReverse('XML','47.0397826','7.62914761277888'))

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23723:     OpenMapX('church trier');
23724:     GetGeoCode(C_form,apath: string; const data: string; sfile: boolean): string;
23725:     writeln(GetGeoCode('xml',ExePath+'outputmap_2cologne.xml','cathedral cologne',false));
23726:     >>> //latitude: '50.94133705' longitude: '6.95812076100766'
23727:     // type TPos = (tLat, tLon);TShowFmt = (sfNautical, sfStatute, sfMetric);
23728:     CoordinateStr(Idx: Integer; PosInSec: Double; PosLn: TPos): string;
23729:
23730:
23731:
23732: maxbox Ref:
23733: Signature:
23734: SHA1: maXbox3.exe 786FA3035226AC3F62F6F6B9E2E2B94C1D659297
23735: CRC32: maXbox3.exe 612D41BB
23736: Ref:
23737:   1. writeln(SHA1(Exepath+'\maxbox3.exe'))
23738:   2. shdig: TSHashDigest;
23739:     shdig:= GetSHA1OfFile(false,exepath+'\maxbox3.exe');
23740:     for i:= 0 to 19 do write(Bytetohex(shdig[i]));
23741:
23742:   3. writeln(IntToHex(CRC32OfFile(exepath+'\maxbox3.exe'),4));
23743:
23744: https://www.virustotal.com/en/file/...../
23745:
23746: MD5 7815ee7c5006c542a7a5788315b3a849
23747: SHA1 786fa3035226ac3f62f6f6b9e2e2b94c1d659297
23748: SHA256 7b277b3cfefaa7463523698ae79831eda3c434998ef77c90c5a903da01c9777
23749:
23750: File name: maXbox3.exe
23751:
23752: Copyright Free Pascal Script
23753: Publisher kleiner kommunikation
23754: Product maxbox
23755: Original name maxbox3_9.exe
23756: Internal name Sunprise mx4
23757: File version 3.9.9.101
23758: Description maxbox Delphi VM
23759: Comments reduce to the max
23760:
23761: Target machine Intel 386 or later processors and compatible processors
23762: Compilation timestamp 2014-10-24 12:02:35
23763: Entry Point 0x01188B40
23764: Number of sections 10
23765:
23766: PE sections
23767: Name Virtual address Virtual size Raw size Entropy MD5
23768:
23769: .text 4096 183333480 183333696 6.60 03b09af285de1cab7d3335921ce379a5
23770: .itext 18337792 48260 48640 6.55 36bd0c461c0f0693fc当地9a2690dd66c4
23771: .data 18386944 263080 263168 5.58 953e203486b167223c1c1bfc当地5759
23772: .bss 18653184 381088 0 0.00 d41d8cd98f00b204e9800998ecf8427e
23773: .idata 19038208 54746 54784 5.63 a7e4bb62133d7c6fcd399937fc当地7f6
23774: .edata 19095552 77 512 0.90 710d2a7ee4fa0f82106348065b3ff46e
23775: .tls 19099648 208 0 0.00 d41d8cd98f00b204e9800998ecf8427e
23776: .rdata 19103744 24 512 0.28 ef2f75905b778426c522854ce5b1c0a0
23777: .reloc 19107840 1168088 1168384 6.76 db20be0be3f5b5489540674ece1359d9
23778: .rsrc 20279296 3466240 5.27 ca5ff6c当地ea92a3f2b04d1d4c03372
23779:
23780: authentihash 16af80d4ecfa98d43579b17a2c37a6cd0ca620b334377fb747221d6187177465
23781: imphash a0d192a8ed78c25f548447101658dad5
23782: File size 22.3 MB ( 23336960 bytes )
23783: File type Win32 EXE
23784: Magic literal
23785: PE32 executable for MS Windows (GUI) Intel 80386 32-bit
23786:
23787: TrID Windows ActiveX control (36.4%)
23788: Inno Setup installer (34.3%)
23789: InstallShield setup (13.4%)
23790: Win32 EXE PECompact compressed (generic) (13.0%)
23791: Win32 Executable (generic) (1.4%)
23792:
23793: RT_BITMAP 743
23794: RT_STRING 304
23795: RT_RCDATA 156
23796: RT_ICON 49
23797: RT_GROUP_ICON 43
23798: RT_CURSOR 31
23799: RT_GROUP_CURSOR 26
23800: WAVE 9
23801: RT_DIALOG 2
23802: RT_HTML 2
23803: RT_MESSAGETABLE 1
23804: RT_MANIFEST 1
23805: RT_VERSION 1
23806:
23807: ExifTool file metadata
23808: SpecialBuild
23809: mx4
23810: CodeSize
23811: 18382336

```

```
23812: SubsystemVersion 4.0
23813: Comments reduce to the max
23814: LinkerVersion 2.25
23815: ImageVersion 0.0
23816: FileSubtype 0
23817: FileVersionNumber 3.9.9.101
23818: LanguageCode German (Swiss)
23819: FileFlagsMask 0x003f
23820: FileDescription maxbox Delphi VM
23821: CharacterSet Windows, Latin1
23822: InitializedDataSize 4953600
23823: FileOS Win32
23824:TimeStamp 2014:10:24 13:02:35+01:00
23825: MIMEType application/octet-stream
23826: LegalCopyright Free Pascal Script
23827: FileVersion 3.9.9.101
23828: SpeziellesBuild mx4 Compiler Engine
23829: FileType Win32 EXE
23830: PEType PE32
23831: InternalName Surprise mx4
23832: FileAccessDate 2014:10:24 16:54:28+01:00
23833: ProductVersion 3.9 Solar mx4
23834:
23835: PE imports
23836: [+] AVICAP32.DLL  [+]
23837: [+] IMAGEHLP.DLL  [+]
23838: [+] OpenGL32.dll  [+]
23839: [+] advapi32.dll  [+]
23840: [+] gdi32.dll  [+]
23841: [+] iphlpapi.dll  [+]
23842: [+] msacm32.dll  [+]
23843: [+] oleaut32.dll  [+]
23844: [+] shell32.dll  [+]
23845: [+] usp10.dll  [+]
23846: [+] wininet.dll  [+]
23847: [+] ws2_32.dll  [+]
23848:
23849: https://www.virustotal.
com/en/file/7b277b3cfefaa7463523698ae79831edaa3c434998ef77c90c5a903da01c9777/analysis/1414166062/
23850: ---- bigbitbox code_cleared_checked----
```