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1: ****
2: Constructor Function and Procedure List of maxbox 3.9.9
3: ****
4:
5: //////////////////////////////////////////////////////////////////
6: ref Help Extraxt of EXE Functions of maxbox3.exe BigBitBox API HEX in BOX
7: -----
8:
9: File Size of EXE: 21177856 V3.9.9.96 June 2014 To EKON/BASTA/JAX/IBZ/SWS
10: *****Now the Funclist*****
11: Funclist Function : 12662 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 7844 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1275 //995 //
16: def head:max: maxBox7: 19.05.2014 19:11:55
17: file E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt
18: doc file: maxbox_extract_funclist399_.txt (sort function list)
19: -----
20: Funclist total Size all is: 21781! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 21112
22: ASize of EXE: 21177856 (16586240) (13511680) (13023744)
23: SHA1 Hash of maxbox 3.9.9.96: 1DD18FFE0743F44580AED6765820ACA01DD166FB
24:
25: -----
26: -----
27: //////////////////////////////////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: Function *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: Function ( Index: Longint ): Integer
34: function ( Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: Function _CheckAutoResult( ResultCode : HResult ) : HResult
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: Function Abs(e : Extended) : Extended;
39: Function Ackermann( const A, B : Integer ) : Integer
40: Function AcquireLayoutLock : Boolean
41: Function ActionByName( const AName : string ) : TWebActionItem
42: Function ACTIVEBUFFER : PCHAR
43: Function Add : TAggregate
44: function Add : TCollectionItem
45: Function Add : TColumn
46: Function Add : TComboExItem
47: Function Add : TCookie
48: Function Add : TCoolBand
49: Function Add : TFavoriteLinkItem
50: Function Add : TFileTypeItem
51: Function Add : THeaderSection
52: Function Add : THTMLTableColumn
53: Function Add : TIdEmailAddressItem
54: Function Add : TIdMessagePart
55: Function Add : TIdUserAccount
56: Function Add : TListColumn
57: Function Add : TListItem
58: Function Add : TStatusPanel
59: Function Add : TTaskDialogBaseButtonItem
60: Function Add : TWebActionItem
61: Function Add : TWorkArea
62: Function Add( AClass : TClass ) : Integer
63: Function Add( AComponent : TComponent ) : Integer
64: Function Add( AItem, AData : Integer ) : Integer
65: Function Add( AItem, AData : Pointer ) : Pointer
66: Function Add( AItem, AData : TObject ) : TObject
67: Function Add( AObject : TObject ) : Integer
68: Function Add( const Access, Count : Cardinal; const Offset : Int64 ) : Integer
69: Function Add( const S : WideString ) : Integer
70: Function Add( Image, Mask : TBitmap ) : Integer
71: Function Add( Index : LongInt; const Text : string ) : LongInt
72: Function Add( Sibling : TTreeNode; const S : string ) : TTreeNode
73: Function Add( const S : string ) : Integer
74: function Add( S : string ) : Integer;
75: Function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address : Pointer ) : Integer
76: Function ADDCHILD : TFIELDDEF
77: Function AddChild( Index : LongInt; const Text : string ) : LongInt
78: Function AddChild( Parent : TTreeNode; const S : string ) : TTreeNode
79: Function AddChildFirst( Parent : TTreeNode; const S : string ) : TTreeNode
80: Function AddChildObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
81: Function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
82: Function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
83: Function ADDFIELDDEF : TFIELDDEF
84: Function AddFileExtIfNecessary( AFileName, AExt : string ) : string
85: Function AddFirst( Sibling : TTreeNode; const S : string ) : TTreeNode
86: Function AddIcon( Image : TIcon ) : Integer
87: Function AddImage( Value : TCustomImageList; Index : Integer ) : Integer
88: Function ADDINDEXDEF : TINDEXDEF
89: Function AddItem( const Caption: String; const ImageIdx, SelectImageIdx, OverlayImageIdx,
    Indent:Int;Data:Ptr ) : TComboExItem

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

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

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268: Function BooleanToInteger( const Pb : Boolean) : Integer
269: Function BoolToStr(B: Boolean; UseBoolStrs: Boolean): string
270: Function BoolToStrl(value : boolean) : string;
271: Function booltoint( aBool : Boolean) : LongInt
272: Function inttobool( aInt : LongInt) : Boolean
273: Function Bounds( ALeft, ATop, AWidth, AHeight : Integer) : TRect
274: function Bounds(ALeft, ATOP, AWidth, AHeight: Integer): TRect)
275: Function BreakApart( BaseString, BreakString : string; StringList : TStrings) : TStrings
276: Function BrightColor( const Color : TColor; const Pct : Single) : TColor
277: Function BrightColorChannel( const Channel : Byte; const Pct : Single) : Byte
278: Function BufferRequest( Length : Integer) : TStream
279: Function BuildfileList( const Path : string; const Attr : Integer; const List : TStrings) : Boolean
280: Function Buttons : PTaskDialogButton
281: Function BytesPerScanline( PixelsPerScanline, BitsPerPixel, Alignment : Longint) : Longint
282: Function BytesToCardinal( const AValue : TIdBytes; const AIndex : Integer) : Cardinal
283: Function BytesToChar( const AValue : TIdBytes; const AIndex : Integer) : Char
284: Function BytesToInt64( const AValue : TIdBytes; const AIndex : Integer) : Int64
285: Function BytesToInteger( const AValue : TIdBytes; const AIndex : Integer) : Integer
286: Function BytesToIPv6( const AValue : TIdBytes; const AIndex : Integer) : TIdIpv6Address
287: Function BytesToShort( const AValue : TIdBytes; const AIndex : Integer) : Short
288: Function BytesToString(ABytes:TIdBytes; AstartIndex:Integer; AMaxCount:Integer): string;
289: Function BytesToStr(const Value : TBytes): String;
290: Function BytesToWord( const AValue : TIdBytes; const AIndex : Integer) : Word
291: Function ByteToBin(Int: Byte): String;
292: Function ByteToCharIndex( S : string; Index : Integer) : Integer
293: function ByteToCharIndex(const S: string; Index: Integer): Integer
294: Function ByteToCharLen( S : string; MaxLen : Integer) : Integer
295: function ByteToCharLen(const S: string; MaxLen: Integer): Integer
296: Function ByteToHex( const AByte : Byte) : string
297: Function ByteToOctal( const AByte : Byte) : string
298: Function ByteType( S : string; Index : Integer) : TMbcsByteType
299: function ByteType(const S: string; Index: Integer): TMbcsByteType)
300: Function CalctitleRect( Col : TColumn; ARow : Integer; var MasterCol : TColumn) : TRect
301: Function CalculateDFAFingerprint( oStates : TList) : integer
302: function CallTerminateProcs: Boolean)
303: function CANFOCUS:BOOLEAN
304: Function CanLoad( const Ext : string) : Boolean
305: Function CanParse( AWebRequest : TWebRequest) : Boolean
306: Function CanSave( const Ext : string) : Boolean
307: Function CanStart( cChar : char) : boolean
308: Function CaptureScreen: TBitmap;
309: Function CaptureScreen1( Rec : TRect) : TBitmap;
310: Function CardinalToFourChar( ACARDINAL : LongWord) : string
311: Function CastSoapToNative(Info:PTypeInfo;const SoapData:WideString;NatData:Pointer;IsNull:Boolean): Boolean
312: Function CastSoapToVariant1( SoapInfo : PTypeInfo; const SoapData : WideString) : Variant;
313: Function Ceil( const X : Extended) : Integer
314: Function Ceil16( X : Integer) : Integer
315: Function Ceil4( X : Integer) : Integer
316: Function Ceil8( X : Integer) : Integer
317: Function Ceiling( const X : Extended) : Integer
318: Function CellRect( ACol, ARow : Longint) : TRect
319: Function CelsiusToFahrenheit( const AValue : Double) : Double
320: Function CenterPoint( const Rect : TRect) : TPoint
321: function CenterPoint(const Rect: TRect): TPoint)
322: Function ChangeFileExt( FileName, Extension : string) : string
323: function ChangeFileExt(const FileName: string; const Extension: string): string)
324: Function CharInSet2( const Ch : Char; const SetOfChar : TSetOfChar) : Boolean
325: Function CharInSet( const Ch : Char; const testSet: TSysCharSet): Boolean
326: Function CharIsInEOF( const AString : string; ACharPos : Integer) : Boolean
327: Function CharIsInSet( const AString : string; const ACharPos : Integer; const ASet : String) : Boolean
328: Function CharLength( S : string; Index : Integer) : Integer
329: Function CharRange( const AMin, AMax : Char) : String
330: function CharsetToIdent(Charset: Longint; var Ident: string): Boolean)
331: Function CharToBin(vchr: Char): String;
332: Function CharNext(lpsz: PChar): PChar; stdcall;
333: Function CharToByteIndex( S : string; Index : Integer) : Integer
334: function CharToByteIndex(const S: string; Index: Integer): Integer
335: Function CharToByteLen( S : string; MaxLen : Integer) : Integer
336: function CharToByteLen(const S: string; MaxLen: Integer): Integer
337: Function CharToHex(const APrefix : String; const cc : Char) : shortstring;
338: function CharToHexStr(Value: char): string);
339: function CharToOem(ins, outs: PChar):boolean;
340: function CharToUniCode(Value: Char): string;
341: Function CheckMenuDropdown : Boolean
342: Function CheckMessages : longint
343: Function CheckOpen( Status : DBIResult) : Boolean
344: Function CheckPassword( const APassword : String) : Boolean
345: Function CheckResponse(const AResponse:SmallInt;const AAllowedResponses:array of SmallInt): SmallInt
346: Function CheckCrc32( var X : array of Byte; N : Integer; Crc : Cardinal) : Integer;
347: function CheckSynchronize(Timeout: Integer): Boolean
348: Function CheckWin32Version( AMajor : Integer; AMinor : Integer) : Boolean
349: function ChrA(const a: byte): char;
350: Function ClassIDToProgID(const ClassID: TGUID): string;
351: Function ClassNameIs(const Name: string): Boolean
352: Function ClearBit( const Value : Byte; const Bit : TBitRange) : Byte;
353: Function ClearBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
354: Function ClearBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
355: Function ClearBit3( const Value : Word; const Bit : TBitRange) : Word;
356: Function ClearBit4( const Value : Integer; const Bit : TBitRange) : Integer;

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

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

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

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

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

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

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

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

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

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

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

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

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1399: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1400: Function HashValue128Stream(Astream: TStream): T4x4LongWordRecord;
1401: Function HashValue16( const ASrc : string ) : Word;
1402: Function HashValue16Stream( Astream : TStream ) : Word;
1403: Function HashValue32( const ASrc : string ) : LongWord;
1404: Function HashValue32Stream( Astream : TStream ) : LongWord;
1405: Function HasMergeConflicts : Boolean;
1406: Function hasMoreTokens : boolean;
1407: Function HASPARENT : BOOLEAN;
1408: function HasParent: Boolean;
1409: Function HasTransaction( Transaction : TDBXTransaction ) : Boolean;
1410: Function HasUTF8BOM( S : TStream ) : boolean;
1411: Function HasUTF8BOM1( S : AnsiString ) : boolean;
1412: Function Haversine( X : Float ) : Float;
1413: Function Head( s : string; const subs : string; var tail : string ) : string;
1414: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN;
1415: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN;
1416: function HELPJUMP(JUMPID:STRING):BOOLEAN;
1417: Function HeronianMean( const a, b : Float ) : Float;
1418: function HexStrToStr(Value: string): string;
1419: function HexToBin(Text,Buffer:PChar;BufSize:Integer):Integer;
1420: function HexToBin2(HexNum: string): string;
1421: Function Hex.ToDouble( const Hex : string ) : Double;
1422: function HexToInt(hexnum: string): LongInt;
1423: function HexToStr(Value: string): string;
1424: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string;
1425: function Hi(vdat: word): byte;
1426: function HiByte(W: Word): Byte;
1427: function High: Int64;
1428: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean;
1429: function HINSTANCE: longword;
1430: function HiWord(l: DWORD): Word;
1431: function HMODULE: longword;
1432: Function HourOf( const AValue : TDateTime ) : Word;
1433: Function HourOfTheDay( const AValue : TDateTime ) : Word;
1434: Function HourOfTheMonth( const AValue : TDateTime ) : Word;
1435: Function HourOfTheWeek( const AValue : TDateTime ) : Word;
1436: Function HourOfTheYear( const AValue : TDateTime ) : Word;
1437: Function HoursBetween( const ANow, AThen : TDateTime ) : Int64;
1438: Function HourSpan( const ANow, AThen : TDateTime ) : Double;
1439: Function HLSLToRGB1( const H, S, L : Single ) : TColor32;
1440: Function HTMLDecode( const AStr : String ) : String;
1441: Function HTMLEncode( const AStr : String ) : String;
1442: Function HTMLEscape( const Str : string ) : string;
1443: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer ) : string;
1444: Function HTTPDecode( const AStr : String ) : string;
1445: Function HTTPEncode( const AStr : String ) : string;
1446: Function Hypot( const X, Y : Extended ) : Extended;
1447: Function IBMX( n1, n2 : Integer ) : Integer;
1448: Function IBMIn( n1, n2 : Integer ) : Integer;
1449: Function IBRandomString( iLength : Integer ) : String;
1450: Function IBRandomInteger( iLow, iHigh : Integer ) : Integer;
1451: Function IBStripString( st : String; CharsToStrip : String ) : String;
1452: Function IBFormatIdentifier( Dialect : Integer; Value : String ) : String;
1453: Function IBFormatIdentifierValue( Dialect : Integer; Value : String ) : String;
1454: Function IBExtractIdentifier( Dialect : Integer; Value : String ) : String;
1455: Function IBQuoteIdentifier( Dialect : Integer; Value : String ) : String;
1456: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1457: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1458: Function RandomString( iLength : Integer ) : String';
1459: Function RandomInteger( iLow, iHigh : Integer ) : Integer';
1460: Function StripString( st : String; CharsToStrip : String ) : String';
1461: Function FormatIdentifier( Dialect : Integer; Value : String ) : String';
1462: Function FormatIdentifierValue( Dialect : Integer; Value : String ) : String';
1463: Function ExtractIdentifier( Dialect : Integer; Value : String ) : String';
1464: Function QuoteIdentifier( Dialect : Integer; Value : String ) : String';
1465: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1466: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1467: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLEToken): TSQLEToken;
1468: Function IconToBitmap( Ico : HICON ) : TBitmap;
1469: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1470: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1471: function IdentToCharset(const Ident: string; var Charset: Longint): Boolean;
1472: function IdentToColor(const Ident: string; var Color: Longint): Boolean;
1473: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1474: Function IdGetDefaultCharSet : TIdCharSet;
1475: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant;
1476: Function IdPorts2 : TStringList;
1477: Function IdToMib( const Id : string ) : string;
1478: Function IdSHA1Hash(apath: string): string;
1479: Function IdHashSHA1(apath: string): string;
1480: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string ) : string;
1481: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string ) : string;
1482: Function IfThenInt( AValue : Boolean; const ATrue : integer; AFALSE : integer ): integer';
1483: Function IfThenDouble( AValue : Boolean; const ATrue : double; AFALSE : double ): double';
1484: Function IfThenBool( AValue : Boolean; const ATrue : boolean; AFALSE : boolean ): boolean';
1485: Function iif1( ATest : Boolean; const ATrue : Integer; const AFALSE : Integer ) : Integer;
1486: Function iif2( ATest : Boolean; const ATrue : string; const AFALSE : string ) : string;
1487: Function iif3( ATest : Boolean; const ATrue : Boolean; const AFALSE : Boolean ) : Boolean;

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1488: function ImportTest(S1: string; s2: longint; s3: Byte; s4: word; var s5: string): string;
1489: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime
1490: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime
1491: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1492: Function IncLimit( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1493: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1494: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1495: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1496: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1497: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1498: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1499: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1500: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1501: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1502: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1503: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1504: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1505: Function IncludeTrailingBackslash( S : string ) : string
1506: function IncludeTrailingBackslash( const S: string): string
1507: Function IncludeTrailingPathDelimiter( const APath : string ) : string
1508: Function IncludeTrailingPathDelimiter( S : string ) : string
1509: function IncludeTrailingPathDelimiter( const S: string): string
1510: Function IncludeTrailingSlash( const APath : string ) : string
1511: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64 ) : TDateTime
1512: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64 ) : TDateTime
1513: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer ) : TDateTime
1514: function IncMonth( const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1515: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64 ) : TDateTime
1516: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer ) : TDateTime
1517: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer ) : TDateTime
1518: Function IndexOf( AClass : TClass ) : Integer
1519: Function IndexOf( AComponent : TComponent ) : Integer
1520: Function IndexOf( AObject : TObject ) : Integer
1521: Function INDEXOF( const ANAME : String ) : INTEGER
1522: Function IndexOf( const DisplayName : string ) : Integer
1523: Function IndexOf( const Item : TBookmarkStr ) : Integer
1524: Function IndexOf( const S : WideString ) : Integer
1525: Function IndexOf( const View : TJclFileMapView ) : Integer
1526: Function INDEXOF( FIELD : TFIELD ) : INTEGER
1527: Function IndexOf( ID : LCID ) : Integer
1528: Function INDEXOF( ITEM : TMENUITEM ) : INTEGER
1529: Function IndexOf( Value : TListItem ) : Integer
1530: Function IndexOf( Value : TTreeNode ) : Integer
1531: function IndexOf( const S: string): Integer;
1532: Function IndexOfName( const Name : WideString ) : Integer
1533: function IndexOfName( Name: string): Integer
1534: Function IndexOfObject( AObject : TObject ) : Integer
1535: function IndexOfObject( AObject:tObject):Integer
1536: Function IndexOfTabAt( X, Y : Integer ) : Integer
1537: Function IndexStr( const AText : string; const AValues : array of string ) : Integer
1538: Function IndexText( const AText : string; const AValues : array of string ) : Integer
1539: Function IndexOfInteger( AList : TStringList; Value : Variant ) : Integer
1540: Function IndexOfFloat( AList : TStringList; Value : Variant ) : Integer
1541: Function IndexOfDate( Alist : TStringList; Value : Variant ) : Integer
1542: Function IndexOfString( Alist : TStringList; Value : Variant ) : Integer
1543: Function IndyCompareStr( const A1 : string; const A2 : string ) : Integer
1544: Function IndyGetHostName : string
1545: Function IndyInterlockedDecrement( var I : Integer ) : Integer
1546: Function IndyInterlockedExchange( var A : Integer; B : Integer ) : Integer
1547: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer ) : Integer
1548: Function IndyInterlockedIncrement( var I : Integer ) : Integer
1549: Function IndyLowerCase( const A1 : string ) : string
1550: Function IndyStrToBool( const AString : String ) : Boolean
1551: Function IndyUpperCase( const A1 : string ) : string
1552: Function InitCommonControl( CC : Integer ) : Boolean
1553: Function InitTempPath : string
1554: Function InMainThread : boolean
1555: Function inOpArray( W : WideString; sets : array of WideChar ) : boolean
1556: Function Input : Text)
1557: Function InputBox( const ACaption, APrompt, ADefault : string ) : string
1558: function InputBox( const ACaption: string; const APrompt: string; const ADefault: string): string
1559: Function InputLn( const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1560: Function InputQuery( const ACaption, APrompt : string; var Value : string ) : Boolean
1561: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1562: Function InquireSignal( RtlSigNum: Integer ) : TSignalState
1563: Function InRangeR( const A, Min, Max : Double ) : Boolean
1564: function Insert( Index : Integer ) : TCollectionItem
1565: Function Insert( Index : Integer ) : TComboExItem
1566: Function Insert( Index : Integer ) : THeaderSection
1567: Function Insert( Index : Integer ) : TListItem
1568: Function Insert( Index : Integer ) : TStatusPanel
1569: Function Insert( Index : Integer ) : TWorkArea
1570: Function Insert( Index : LongInt; const Text : string ) : LongInt
1571: Function Insert( Sibling : TTreeNode; const S : string ) : TTreeNode
1572: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM ) : INTEGER
1573: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM ) : INTEGER
1574: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
1575: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
1576: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode

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1577: Function Instance : Longint
1578: function InstanceSize: Longint
1579: Function Int(e : Extended) : Extended;
1580: function Int64ToStr(i: Int64): String;
1581: Function IntegerToBcd( const AValue : Integer) : TBcd
1582: Function Intensity( const Color32 : TColor32) : Integer;
1583: Function Intensity( const R, G, B : Single) : Single;
1584: Function InterestPayment( const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1585: Function InterestRate(NPeriods:Integer;const Payment,PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime): Extended
1586: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1587: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1588: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1589: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1590: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1591: Function IntMibToStr( const Value : string) : string
1592: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1593: Function IntToBin( Value : cardinal) : string
1594: Function IntToHex( Value : Integer; Digits : Integer) : string;
1595: function IntToHex(a: integer; b: integer): string;
1596: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1597: function IntToHex64(Value: Int64; Digits: Integer): string)
1598: Function IntTo3Str( Value : LongInt; separator: string) : string
1599: Function inttobool( aInt : LongInt) : Boolean
1600: function IntToStr(i: Int64): String;
1601: Function IntToStr64(Value: Int64): string)
1602: function IOResult: Integer
1603: Function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1604: Function IsAccel(VK: Word; const Str: string): Boolean
1605: Function IsAddressInNetwork( Address : String) : Boolean
1606: Function IsAdministrator : Boolean
1607: Function IsAlias( const Name : string) : Boolean
1608: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1609: Function IsASCII( const AByte : Byte) : Boolean;
1610: Function IsASCIILDH( const AByte : Byte) : Boolean;
1611: Function IsAssembly(const FileName: string): Boolean;
1612: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1613: Function IsBinary(const AChar : Char) : Boolean
1614: function IsConsole: Boolean)
1615: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1616: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1617: Function IsDelphiDesignMode : boolean
1618: Function IsDelphiRunning : boolean
1619: Function IsDFAState : boolean
1620: Function IsDirectory( const FileName : string) : Boolean
1621: Function IsDomain( const S : String) : Boolean
1622: function IsDragObject(Sender: TObject): Boolean;
1623: Function IsEditing : Boolean
1624: Function ISEMPYTY : BOOLEAN
1625: Function IsEqual( Value : TParameters) : Boolean
1626: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1627: function IsEqualGUID(const guid1, guid2: TGUID): Boolean
1628: Function IsFirstNode : Boolean
1629: Function IsFloatZero( const X : Float) : Boolean
1630: Function IsFormatRegistered( Extension, AppID : string) : Boolean
1631: Function IsFormOpen(const FormName: string): Boolean;
1632: Function IsFQDN( const S : String) : Boolean
1633: Function IsGrayScale : Boolean
1634: Function IsHex( AChar : Char) : Boolean;
1635: Function IsHexString(const AString: string): Boolean;
1636: Function IsHostname( const S : String) : Boolean
1637: Function IsInfinite( const AValue : Double) : Boolean
1638: Function IsInLeapYear( const AValue : TDateTime) : Boolean
1639: Function IsInternet: boolean;
1640: Function IsLeadChar( ACh : Char) : Boolean
1641: Function IsLeapYear( Year : Word) : Boolean
1642: function IsLeapYear(Year: Word): Boolean)
1643: function IsLibrary: Boolean)
1644: Function ISLINE : BOOLEAN
1645: Function IsLinkedTo( DataSet : TDataSet) : Boolean
1646: Function ISLINKEDTO( DATA SOURCE : TDATASOURCE) : BOOLEAN
1647: Function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1648: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1649: Function IsMainAppWindow( Wnd : HWND) : Boolean
1650: Function IsMediaPresentInDrive( Drive : Char) : Boolean
1651: function IsMemoryManagerSet: Boolean)
1652: Function IsMultiTableQuery( const SQL : WideString) : Boolean
1653: function IsMultiThread: Boolean)
1654: Function IsNumeric( AChar : Char) : Boolean;
1655: Function IsNumeric2( const AString : string) : Boolean;
1656: Function IsOctal( AChar : Char) : Boolean;
1657: Function IsOctalString(const AString: string) : Boolean;
1658: Function IsPathDelimiter( S : string; Index : Integer) : Boolean
1659: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1660: Function ISPM( const AValue : TDateTime) : Boolean
1661: Function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1662: Function IsPrimeFactor( const F, N : Cardinal) : Boolean
1663: Function IsPrimeRM( N : Cardinal) : Boolean //rabin miller

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1664: Function IsPrimeTD( N : Cardinal ) : Boolean //trial division
1665: Function IsPrivilegeEnabled( const Privilege : string ) : Boolean
1666: Function ISqrt( const I : Smallint ) : Smallint
1667: Function IsReadOnly( const Filename: string): boolean;
1668: Function IsRectEmpty( const Rect : TRect ) : Boolean
1669: function IsRectEmpty( const Rect: TRect): Boolean
1670: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1671: Function ISRIGHTTOLEFT : BOOLEAN
1672: function IsRightToLeft: Boolean
1673: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1674: Function ISSEQUENCED : BOOLEAN
1675: Function IsSystemModule( const Module : HMODULE ) : Boolean
1676: Function IsSystemResourcesMeterPresent : Boolean
1677: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1678: Function IsToday( const AValue : TDateTime ) : Boolean
1679: function IsToday( const AValue: TDateTime): Boolean;
1680: Function IsTopDomain( const AStr : string ) : Boolean
1681: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1682: Function IsUTF8String( const s : UTF8String ) : Boolean
1683: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1684: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1685: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1686: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1687: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1688: Function IsValidDateTime( const AYear,AMonth, ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1689: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1690: Function IsValidIdent( Ident : string ) : Boolean
1691: function IsValidIdent( const Ident: string; AllowDots: Boolean): Boolean
1692: Function IsValidIP( const S : String ) : Boolean
1693: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1694: Function IsValidISBN( const ISBN : AnsiString ) : Boolean
1695: Function IsVariantManagerSet: Boolean; //deprecated;
1696: Function IsVirtualPcGuest : Boolean;
1697: Function IsVmWareGuest : Boolean;
1698: Function IsVCLControl(Handle: HWnd): Boolean;
1699: Function IsWhiteString( const AStr : String ) : Boolean
1700: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1701: Function IsWoW64: boolean;
1702: Function IsWin64: boolean;
1703: Function IsWow64String(var s: string): Boolean;
1704: Function IsWin64String(var s: string): Boolean;
1705: Function IsWindowsVista: boolean;
1706: Function isPowerOf2(num: int64): boolean;
1707: Function powerOf2(exponent: integer): int64;
1708: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1709: function IsZero1( const A: Double; Epsilon: Double): Boolean //overload;
1710: function IsZero2( const A: Single; Epsilon: Single): Boolean //overload;
1711: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1712: function ITEMATPOS(POS:TPOINT;EXISTING:BOOLEAN):INTEGER
1713: Function ItemRect( Index : Integer ) : TRect
1714: function ITEMRECT(INDEX:INTEGER):RECT
1715: Function ItemWidth( Index : Integer ) : Integer
1716: Function JavahashCode(val: string): Integer
1717: Function JosephusG(n,k: integer; var graphout: string): integer;
1718: Function JulianDateToDateTime( const AValue : Double ) : TDateTime
1719: Function JvMessageBox( const Text, Caption : string; Flags : DWORD ) : Integer;
1720: Function JvMessageBox1( const Text : string; Flags : DWORD ) : Integer;
1721: Function Keepalive : Boolean
1722: Function KeysToShiftState(Keys: Word): TShiftState;
1723: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1724: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1725: Function KeyboardStateToShiftState: TShiftState; overload;
1726: Function Languages : TLanguages
1727: Function Last : TClass
1728: Function Last : TComponent
1729: Function Last : TObject
1730: Function LastDelimiter( Delimiters, S : string ) : Integer
1731: function LastDelimiter(const Delimiters: string; const S: string): Integer
1732: Function LastPos( const ASubstr : string; const AStr : string ) : Integer
1733: Function Latitude2WGS84(lat: double): double;
1734: Function LCM(m,n:longint):longint;
1735: Function LCMJ( const X, Y : Cardinal ) : Cardinal
1736: Function Ldexp( const X : Extended; const P : Integer ) : Extended
1737: Function LeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
1738: Function LeftStr( const AText : WideString; const ACount : Integer ) : WideString;
1739: function Length: Integer;
1740: Procedure LetfileList(FileList: TStringlist; apath: string);
1741: function lengthmp3(mp3path: string):integer;
1742: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect ) : Boolean;
1743: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect ) : Boolean;
1744: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1745: function LineStart(Buffer, BufPos: PChar): PChar
1746: function LineStart(Buffer, BufPos: PChar): PChar
1747: function ListSeparator: char;
1748: function Ln(x: Extended): Extended;
1749: Function LnXP1( const X : Extended ) : Extended
1750: function Lo(vdat: word): byte;
1751: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR

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1752: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1753: Function LoadFileAsString( const FileName : string) : string
1754: Function LoadFromFile( const FileName : string) : TBitmapLoader
1755: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1756: Function LoadPackage(const Name: string): HMODULE
1757: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1758: Function LoadStr( Ident : Integer) : string
1759: Function LoadString(Instance: Longint; IDent: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1760: Function LoadWideStr( Ident : Integer) : WideString
1761: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1762: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HRESULT
1763: Function LockServer( fLock : LongBool) : HRESULT
1764: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1765: Function Log( const X : Extended) : Extended
1766: Function Log10( const X : Extended) : Extended
1767: Function Log2( const X : Extended) : Extended
1768: function LogBase10(X: Float): Float;
1769: Function LogBase2(X: Float): Float;
1770: Function LogBaseN(Base, X : Float): Float;
1771: Function LogN( const Base, X : Extended) : Extended
1772: Function LogOffOS : Boolean
1773: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1774: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1775: Function LongDateFormat: string;
1776: function LongTimeFormat: string;
1777: Function LongWordToFourChar( ACARDINAL : LongWord) : string
1778: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1779: Function LookupName( const name : string) : TInAddr
1780: Function LookupService( const service : string) : Integer
1781: function Low: Int64;
1782: Function LowerCase( S : string) : string
1783: Function Lowercase(s : AnyString) : AnyString;
1784: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1785: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1786: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1787: function MainInstance: longword
1788: function MainThreadID: longword
1789: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1790: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1791: Function MakeCanonicalIPv4Address( const AAddr : string) : string
1792: Function MakeCanonicalIPv6Address( const AAddr : string) : string
1793: Function MakeDIB( out Bitmap : PBitmapInfo) : Integer
1794: Function MakeWordIntoIPv4Address( const ADWord : Cardinal) : string
1795: function MakeLong(A, B: Word): Longint
1796: Function MakeTempFilename( const APath : String) : string
1797: Function MakeValidFileName( const Str : string) : string
1798: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1799: function MakeWord(A, B: Byte): Word
1800: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1801: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1802: Function MapValues( Mapping : string; Value : string) : string
1803: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1804: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1805: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1806: Function MaskGetFldSeparator( const EditMask : string) : Integer
1807: Function MaskGetMaskBlank( const EditMask : string) : Char
1808: Function MaskGetMaskSave( const EditMask : string) : Boolean
1809: Function MaskIntLiteralToChar( IChar : Char) : Char
1810: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1811: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1812: Function MaskString( Mask, Value : String) : String
1813: Function Match( const sString : string) : TniRegularExpressionMatchResult
1814: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1815: Function Matches( const Filename : string) : Boolean
1816: Function MatchesMask( const Filename, Mask : string) : Boolean
1817: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1818: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1819: Function Max( AValueOne, AValueTwo : Integer) : Integer
1820: function Max(const x,y: Integer): Integer;
1821: Function Max1( const B1, B2 : Shortint) : Shortint;
1822: Function Max2( const B1, B2 : Smallint) : Smallint;
1823: Function Max3( const B1, B2 : Word) : Word;
1824: function Max3(const x,y,z: Integer): Integer;
1825: Function Max4( const B1, B2 : Integer) : Integer;
1826: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1827: Function Max6( const B1, B2 : Int64) : Int64;
1828: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1829: Function MaxFloat( const X, Y : Float) : Float
1830: Function MaxFloatArray( const B : TDynFloatArray) : Float
1831: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1832: function MaxIntValue(const Data: array of Integer):Integer;
1833: Function MaxJ( const B1, B2 : Byte) : Byte;
1834: function MaxPath: string;
1835: function MaxValue(const Data: array of Double): Double)
1836: Function MaxCalc( const Formula : string) : Extended //math expression parser
1837: Procedure MaxCalcF( const Formula : string); //out to console memo2
1838: function MD5(const fileName: string): string;
1839: Function Mean( const Data : array of Double) : Extended
1840: Function Median( const X : TDynFloatArray) : Float

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1841: Function Memory : Pointer
1842: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer ) : Integer
1843: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1844: function MESSAGEBOX(TEXT,CAPTION:PCCHAR;FLAGS:WORD):INTEGER
1845: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1846: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1847: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:X,
  Y:Integer):Integer;
1848: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
1849: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
1850: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn ) : Integer;
1851: Function MibToId( Mib : string ) : string
1852: Function MidStr( const AText : AnsiText; const AStart, ACount : Integer ) : AnsiString;
1853: Function MidStr( const AText : WideString; const AStart, ACount : Integer ) : WideString;
1854: Function microsecondsToCentimeters(mseconds: longint): longint; //340m/s speed of sound
1855: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64'
1856: Function MIDIOut( DeviceID : Cardinal ) : IJclMIDIOut
1857: Procedure GetMidiOutputs( const List : TStrings )
1858: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single ) : TSingleNoteTuningData
1859: Function MIDINoteToStr( Note : TMIDINote ) : string
1860: Function WinMidiOut( DeviceID : Cardinal ) : IJclWinMidiOut
1861: Procedure GetMidiOutputs( const List : TStrings )
1862: Procedure MidiOutCheck( Code : MMResult )
1863: Procedure MidiInCheck( Code : MMResult )
1864: Function MillisecondOf( const AValue : TDateTime ) : Word
1865: Function MillisecondOfTheDay( const AValue : TDateTime ) : LongWord
1866: Function MillisecondOfTheHour( const AValue : TDateTime ) : LongWord
1867: Function MillisecondOfTheMinute( const AValue : TDateTime ) : LongWord
1868: Function MillisecondOfTheMonth( const AValue : TDateTime ) : LongWord
1869: Function MillisecondOfTheSecond( const AValue : TDateTime ) : Word
1870: Function MillisecondOfTheWeek( const AValue : TDateTime ) : LongWord
1871: Function MillisecondOfTheYear( const AValue : TDateTime ) : Int64
1872: Function MillisecondsBetween( const ANow, AThen : TDateTime ) : Int64
1873: Function MillisecondSpan( const ANow, AThen : TDateTime ) : Double
1874: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
1875: Function millis: int64;
1876: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1877: Function Min1( const B1, B2 : Shortint ) : Shortint;
1878: Function Min2( const B1, B2 : Smallint ) : Smallint;
1879: Function Min3( const B1, B2 : Word ) : Word;
1880: Function Min4( const B1, B2 : Integer ) : Integer;
1881: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1882: Function Min6( const B1, B2 : Int64 ) : Int64;
1883: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1884: Function MinClientRect : TRect;
1885: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1886: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1887: Function MinFloat( const X, Y : Float ) : Float
1888: Function MinFloatArray( const B : TDynFloatArray ) : Float
1889: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1890: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1891: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1892: function MinimizeName(const Filename: String; Canvas: TCanvas;MaxLen: Integer): TFileName
1893: Function MinIntValue( const Data : array of Integer ) : Integer
1894: function MinIntValue(const Data: array of Integer):Integer)
1895: Function MinJ( const B1, B2 : Byte );
1896: Function MinuteOf( const AValue : TDateTime ) : Word
1897: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1898: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1899: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1900: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1901: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1902: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1903: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1904: Function MinValue( const Data : array of Double ) : Double
1905: function MinValue(const Data: array of Double): Double)
1906: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1907: Function MMCheck( const MciError : MCIERROr; const Msg : string ) : MCIERROr
1908: Function ModFloat( const X, Y : Float ) : Float
1909: Function ModifiedJulianDateToDate( const AValue : Double ) : TDateTime
1910: Function Modify( const Key : string; Value : Integer ) : Boolean
1911: Function ModuleCacheID : Cardinal
1912: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1913: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1914: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1915: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1916: Function MonthOf( const AValue : TDateTime ) : Word
1917: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1918: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1919: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1920: Function MonthStr( DateTime : TDateTime ) : string
1921: Function MouseCoord( X, Y : Integer ) : TGridCoord
1922: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER
1923: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1924: Function MoveNext : Boolean

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1925: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1926: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp
1927: Function Name : string
1928: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
Double;PaymentTime:TPaymentTime):Extended
1929: function NetworkVolume(DriveChar: Char): string
1930: Function NEWBOTOMLINE : INTEGER
1931: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant) : PExprNode
1932: Function NEWITEM( const ACaption : String; ASHORTCUT : TSHORTCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNORMALIZE; HCTX : WORD; const ANAME : String) : TMenuItem
1933: Function NEWLINE : TMenuItem
1934: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem) : TMainMenu
1935: Function NewNode(Kind: TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
Right:PExprNode):PExprNode
1936: Function NEWPOPUPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPUPALIGNMENT;AUTOPOPUP:BOOLEAN;
const ITEMS : array of TMenuItem) : TPopupMenu
1937: Function NewState( eType : ThiRegularExpressionStateType ) : ThiRegularExpressionState
1938: Function NEWSUBMENU(const ACapt:String;HCTX:WORD;const ANAME:String;ITEMS:array of
TMenuItem;AENABLED:BOOL): TMenuItem
1939: Function NEWTOPLINE : INTEGER
1940: Function Next : TIdAuthWhatsNext
1941: Function NextCharIndex( S : String; Index : Integer ) : Integer
1942: Function NextRecordSet : TCustomSQLDataSet
1943: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1944: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLElement ) : TSQLElement;
1945: Function NextToken : Char
1946: Function nextToken : WideString
1947: function NextToken:Char
1948: Function Norm( const Data : array of Double) : Extended
1949: Function NormalizeAngle( const Angle : Extended) : Extended
1950: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1951: Function NormalizeRect( const Rect : TRect ) : TRect
1952: function NormalizeRect(const Rect: TRect): TRect;
1953: Function Now : TDateTime
1954: function Now2: tDateTime
1955: Function NumProcessThreads : integer
1956: Function NumThreadCount : integer
1957: Function NthDayOfWeek( const AValue : TDateTime ) : Word
1958: Function NtProductType : TNTProductType
1959: Function NtProductTypeString : string
1960: function Null: Variant;
1961: Function NullPoint : TPoint
1962: Function NullRect : TRect
1963: Function Null2Blank(aString:String):String;
1964: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime ) : Extended
1965: Function NumIP : integer
1966: function Odd(x: Longint): boolean;
1967: Function OffsetFromUTC : TDateTime
1968: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
1969: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
1970: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean
1971: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
1972: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
1973: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
1974: Function OldCurrToBCD(const Curr:Currency; var BCD:TBcd; Precision:Integer;Decimals:Integer): Boolean
1975: function OpenBit:Integer
1976: Function OpenDatabase : TDatabase
1977: Function OpenDatabase( const DatabaseName : string ) : TDatabase
1978: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
1979: Function OpenObject( Value : PChar ) : Boolean;
1980: Function OpenObject1( Value : string ) : Boolean;
1981: Function OpenSession( const SessionName : string ) : TSession
1982: Function OpenVolume( const Drive : Char ) : THandle
1983: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte): Cardinal
1984: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
1985: Function OrdToBinary( const Value : Byte ) : string;
1986: Function OrdToBinary1( const Value : Shortint ) : string;
1987: Function OrdToBinary2( const Value : Smallint ) : string;
1988: Function OrdToBinary3( const Value : Word ) : string;
1989: Function OrdToBinary4( const Value : Integer ) : string;
1990: Function OrdToBinary5( const Value : Cardinal ) : string;
1991: Function OrdToBinary6( const Value : Int64 ) : string;
1992: Function OSCheck( RetVal : Boolean ) : Boolean
1993: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
1994: Function OSIdentToString( const OSIdent : DWORD ) : string
1995: Function Output: Text)
1996: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
1997: Function Owner : TCustomListView
1998: function Owner : TPersistent
1999: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2000: Function PadL( pStr : String; pLth : integer ) : String
2001: Function Padl(s : AnyString;I : longInt) : AnyString;
2002: Function PadLCh( pStr : String; pLth : integer; pChr : char ) : String
2003: Function PadR( pStr : String; pLth : integer ) : String
2004: Function Padr(s : AnyString;I : longInt) : AnyString;
2005: Function PadRCh( pStr : String; pLth : integer; pChr : char ) : String
2006: Function PadString( const AString : String; const ALen : Integer; const AChar : Char ) : String
2007: Function Padz(s : AnyString;I : longInt) : AnyString;

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2008: Function PaethPredictor( a, b, c : Byte) : Byte
2009: Function PARAMBYNAME( const VALUE : String) : TPARAM
2010: Function ParamByName( const Value : WideString) : TParameter
2011: Function ParamCount: Integer
2012: Function ParamsEncode( const ASrc : string) : string
2013: function ParamStr(Index: Integer): string
2014: Function ParseDate( const DateStr : string) : TDateTime
2015: Function PARSESQL( SQL : String; DOCREATE : BOOLEAN) : String
2016: Function ParseSQL( SQL : WideString; DoCreate : Boolean) : WideString
2017: Function PathAddExtension( const Path, Extension : string) : string
2018: Function PathAddSeparator( const Path : string) : string
2019: Function PathAppend( const Path, Append : string) : string
2020: Function PathBuildRoot( const Drive : Byte) : string
2021: Function PathCanonicalize( const Path : string) : string
2022: Function PathCommonPrefix( const Path1, Path2 : string) : Integer
2023: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer:CmpFmt:TCompactPath):string;
2024: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int:CmpFmt:TCompactPath):string;
2025: Function PathEncode( const ASrc : string) : string
2026: Function PathExtractFileDirFixed( const S : AnsiString) : AnsiString
2027: Function PathExtractFileNameNoExt( const Path : string) : string
2028: Function PathExtractPathDepth( const Path : string; Depth : Integer) : string
2029: Function PathGetDepth( const Path : string) : Integer
2030: Function PathGetLongName( const Path : string) : string
2031: Function PathGetLongName2( Path : string) : string
2032: Function PathGetShortName( const Path : string) : string
2033: Function PathIsAbsolute( const Path : string) : Boolean
2034: Function PathIsChild( const Path, Base : AnsiString) : Boolean
2035: Function PathIsDiskDevice( const Path : string) : Boolean
2036: Function PathIsUNC( const Path : string) : Boolean
2037: Function PathRemoveExtension( const Path : string) : string
2038: Function PathRemoveSeparator( const Path : string) : string
2039: Function Payment( Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2040: Function Peek : Pointer
2041: Function Peek : TObject
2042: function PERFORM(MSG: CARDINAL;WPARAM,LPARAM:LONGINT):LONGINT
2043: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2044: function Permutation(npr, k: integer): extended;
2045: function PermutationInt(npr, k: integer): Int64;
2046: Function PermutationJ( N, R : Cardinal) : Float
2047: Function Pi : Extended;
2048: Function PiE : Extended;
2049: Function PixelsToDialogsX( const Pixels : Word) : Word
2050: Function PixelsToDialogsY( const Pixels : Word) : Word
2051: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2052: Function Point( X, Y : Integer) : TPoint
2053: function Point(X, Y: Integer): TPoint
2054: Function PointAssign( const X, Y : Integer) : TPoint
2055: Function PointDist( const P1, P2 : TPoint) : Double;
2056: function PointDist1( const P1, P2 : TFloatPoint): Double;
2057: Function PointDist2( const P1,P2 : TPoint): Double;
2058: function PointEqual( const P1, P2 : TPoint) : Boolean
2059: Function PointIsNull( const P : TPoint) : Boolean
2060: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint) : Double
2061: Function Poly( const X : Extended; const Coefficients : array of Double) : Extended
2063: Function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
2064: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2065: Function Pop : Pointer
2066: Function Pop : TObject
2067: Function PopnStdDev( const Data : array of Double) : Extended
2068: Function PopnVariance( const Data : array of Double) : Extended
2069: Function PopulationVariance( const X : TDynFloatArray) : Float
2070: function Pos(SubStr, S: AnyString): Longint;
2071: Function PosEqual( const Rect : TRect) : Boolean
2072: Function PosEx( const Substr, S : string; Offset : Integer) : Integer
2073: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt) : Integer
2074: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2075: Function Post1( AURL : string; const ASource : TStrings) : string;
2076: Function Post2( AURL : string; const ASource : TStream) : string;
2077: Function Post3( AURL : string; const ASource : TIdMultiPartFormDataStream) : string;
2078: Function PostData( const UserData : WideString; const CheckSum : DWORD) : Boolean
2079: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2080: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2081: Function Power( const Base, Exponent : Extended) : Extended
2082: Function PowerBig(aval, n:integer): string;
2083: Function PowerIntJ( const X : Float; N : Integer) : Float;
2084: Function PowerJ( const Base, Exponent : Float) : Float;
2085: Function PowerOffOS : Boolean
2086: Function PreformatDateString( Ps : string) : string
2087: Function PresentValue( const Rate:Extend;NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2088: Function PrimeFactors( N : Cardinal) : TDynCardinalArray
2089: Function Printer : TPrinter
2090: Function ProcessPath2( const ABasePath:String; const APPath: String; const APPathDelim:string): string
2091: Function ProcessResponse : TIIdHTTPWhatsNext
2092: Function ProduceContent : string
2093: Function ProduceContentFromStream( Stream : TStream) : string

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2094: Function ProduceContentFromString( const S : string) : string
2095: Function ProgIDToClassID(const ProgID: string): TGUID
2096: Function PromptDataLinkFile( ParentHandle : THandle; InitialFile : WideString) : WideString
2097: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString) : WideString
2098: Function PromptForFileName( var AFileName : string; const AFilter : string; const ADefaultExt : string;
  const ATitle : string; const AInitialDir : string; SaveDialog: Boolean) : Boolean
2099: function PromptForFileName(var AFileName: string; const AFiler: string; const ADefaultExt: string;const
  ATile: string; const AInitialDir: string; SaveDialog: Boolean): Boolean
2100: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FileName,Output:String):Boolean
2101: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2102: function PtInRect(const Rect: TRect; const P: TPoint): Boolean
2103: Function Push( AItem : Pointer )
2104: Function Push( AObject : TObject ) : TObject
2105: Function Putl( AURL : string; const ASource : TStream ) : string;
2106: Function Pythagoras( const X, Y : Extended ) : Extended
2107: Function queryDLLInterface( var queryList : TStringList ) : TStringList
2108: Function queryDLLInterfaceTwo( var queryList : TStringList ) : TStringList
2109: Function QueryInterface(const IID: TGUID; out Obj): HResult, CdStdCall
2110: Function queryPerformanceCounter2(ms: int64): int64;
2111: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2112: //Function QueryPerformanceFrequency(ms: int64): boolean;
2113: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2114: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2115: Procedure QueryPerformanceCounter1(var aC: Int64);
2116: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2117: Function Quote( const ACommand : String ) : SmallInt
2118: Function QuotedStr( S : string ) : string
2119: Function RadToCycle( const Radians : Extended ) : Extended
2120: Function RadToDeg( const Radians : Extended ) : Extended
2121: Function RadToDeg( const Value : Extended ) : Extended;
2122: Function RadToDeg1( const Value : Double ) : Double;
2123: Function RadToDeg2( const Value : Single ) : Single;
2124: Function RadToGrad( const Radians : Extended ) : Extended
2125: Function RadToGrad( const Value : Extended ) : Extended;
2126: Function RadToGrad1( const Value : Double ) : Double;
2127: Function RadToGrad2( const Value : Single ) : Single;
2128: Function RandG( Mean, StdDev : Extended ) : Extended
2129: function Random(const ARange: Integer): Integer;
2130: function random2(a: integer): double
2131: function RandomE: Extended;
2132: function RandomF: Extended;
2133: Function RandomFrom( const AValues : array of string ) : string;
2134: Function RandomRange( const AFrom, ATo : Integer ) : Integer
2135: function randSeed: longint
2136: Function RawToDataColumn( ACol : Integer ) : Integer
2137: Function Read : Char
2138: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint ) : HResult
2139: function Read(Buffer:String;Count:LongInt):LongInt
2140: Function ReadBinaryStream( const Section, Name : string; Value : TStream ) : Integer
2141: Function ReadBool( const Section, Ident : string; Default : Boolean ) : Boolean
2142: Function ReadCardinal( const AConvert : boolean ) : Cardinal
2143: Function ReadChar : Char
2144: Function ReadClient( var Buffer, Count : Integer ) : Integer
2145: Function ReadDate( const Section, Name : string; Default : TDateTime ) : TDateTime
2146: Function ReadDateTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2147: Function ReadFloat( const Section, Name : string; Default : Double ) : Double
2148: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:
  Boolean):Integer
2149: Function ReadInteger( const AConvert : boolean ) : Integer
2150: Function ReadInteger( const Section, Ident : string; Default : Longint ) : Longint
2151: Function ReadLn : string
2152: Function ReadLn(ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer ) : string
2153: function ReadLn(question: string): string;
2154: Function ReadLnWait( AFailCount : Integer ) : string
2155: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2156: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2157: Function ReadSmallInt( const AConvert : boolean ) : SmallInt
2158: Function ReadString( const ABytes : Integer ) : string
2159: Function ReadString( const Section, Ident, Default : string ) : string
2160: Function ReadString( Count : Integer ) : string
2161: Function ReadTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2162: Function ReadTimeStampCounter : Int64
2163: Function RebootOS : Boolean
2164: Function Receive( ATimeOut : Integer ) : TReplyStatus
2165: Function ReceiveBuf( var Buf, Count : Integer ) : Integer
2166: Function ReceiveLength : Integer
2167: Function ReceiveText : string
2168: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2169: Function ReceiveSerialText: string
2170: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word ) : TDateTime
2171: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,
  AMilliSec:Word):TDateTime
2172: Function RecodeDay( const AValue : TDateTime; const ADay : Word ) : TDateTime
2173: Function RecodeHour( const AValue : TDateTime; const AHour : Word ) : TDateTime
2174: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word ) : TDateTime
2175: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word ) : TDateTime
2176: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word ) : TDateTime
2177: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word ) : TDateTime
2178: Function RecodeTime( const AValue: TDateTime;const AHour,AMinute,ASec,AMilliSecond:Word):TDateTime

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2179: Function RecodeYear( const AValue : TDateTime; const AYear : Word) : TDateTime
2180: Function Reconcile( const Results : OleVariant) : Boolean
2181: Function Rect( Left, Top, Right, Bottom : Integer) : TRect
2182: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect)
2183: Function Rect2( const ATopLeft, ABottomRight : TPoint) : TRect;
2184: Function RectAssign( const Left, Top, Right, Bottom : Integer) : TRect
2185: Function RectAssignPoints( const TopLeft, BottomRight : TPoint) : TRect
2186: Function RectBounds( const Left, Top, Width, Height : Integer) : TRect
2187: Function RectBounds( const R : TRect) : TPoint
2188: Function RectEqual( const R1, R2 : TRect) : Boolean
2189: Function RectHeight( const R : TRect) : Integer
2190: Function RectIncludesPoint( const R : TRect; const Pt : TPoint) : Boolean
2191: Function RectIncludesRect( const R1, R2 : TRect) : Boolean
2192: Function RectIntersection( const R1, R2 : TRect) : TRect
2193: Function RectIntersectRect( const R1, R2 : TRect) : Boolean
2194: Function RectIsEmpty( const R : TRect) : Boolean
2195: Function RectIsNull( const R : TRect) : Boolean
2196: Function RectIsSquare( const R : TRect) : Boolean
2197: Function RectIsValid( const R : TRect) : Boolean
2198: Function RectsAreValid( R : array of TRect) : Boolean
2199: Function RectUnion( const R1, R2 : TRect) : TRect
2200: Function RectWidth( const R : TRect) : Integer
2201: Function RedComponent( const Color32 : TColor32) : Integer
2202: Function Refresh : Boolean
2203: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2204: Function RegisterConversionFamily( const ADescription : string) : TConvFamily
2205: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType) : Boolean;
2206: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2207: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2208: Function ReleasedDC(hdwnd: HWND; hdc: HDC): integer;
2209: Function ReleaseHandle : HBITMAP
2210: Function ReleaseHandle : HENHMETAFILE
2211: Function ReleaseHandle : HICON
2212: Function ReleasePalette : HPALETTE
2213: Function RemainderFloat( const X, Y : Float) : Float
2214: Function Remove( AClass : TClass) : Integer
2215: Function Remove( AComponent : TComponent) : Integer
2216: Function Remove( AItem : Integer) : Integer
2217: Function Remove( AItem : Pointer) : Pointer
2218: Function Remove( AItem : TObject) : TObject
2219: Function Remove( AObject : TObject) : Integer
2220: Function RemoveBackslash( const PathName : string) : string
2221: Function RemoveDF( aString : String) : String //removes thousand separator
2222: Function RemoveDir( Dir : string) : Boolean
2223: function RemoveDir(const Dir: string): Boolean
2224: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2225: Function RemoveFileExt( const FileName : string) : string
2226: Function RemoveHeaderEntry( AHeader, AEntry : string) : string
2227: Function RenameFile( OldName, NewName : string) : Boolean
2228: function RenameFile(const OldName: string; const NewName: string): Boolean
2229: Function ReplaceStr( const AText, AFromText, AToText : string) : string
2230: Function ReplaceText( const AText, AFromText, ATToText : string) : string
2231: Function Replicate(c : char;I : longInt) : String;
2232: Function Request : TWebRequest
2233: Function ResemblesText( const AText, AOther : string) : Boolean
2234: Function Reset : Boolean
2235: function Reset2(mypath: string):string;
2236: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2237: Function ResourceLoad( ResType: TResType; const Name : string; MaskColor : TColor ) : Boolean
2238: Function Response : TWebResponse
2239: Function ResumeSupported : Boolean
2240: Function RETHINKHOTKEYS : BOOLEAN
2241: Function RETHINKLINES : BOOLEAN
2242: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage) : Boolean
2243: Function RetrieveCurrentDir : string
2244: Function RetrieveDeltas( const cdsArray : array of TClientDataset) : Variant
2245: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage) : Boolean
2246: Function RetrieveMailBoxSize : integer
2247: Function RetrieveMsgSize( const MsgNum : Integer) : Integer
2248: Function RetrieveProviders( const cdsArray : array of TClientDataset) : Variant
2249: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStrings) : boolean
2250: Function ReturnMIMETYPE( var MediaType, EncType : String) : Boolean
2251: Function ReverseBits( Value : Byte) : Byte;
2252: Function ReverseBits1( Value : Shortint) : Shortint;
2253: Function ReverseBits2( Value : Smallint) : Smallint;
2254: Function ReverseBits3( Value : Word) : Word;
2255: Function ReverseBits4( Value : Cardinal) : Cardinal;
2256: Function ReverseBits4( Value : Integer) : Integer;
2257: Function ReverseBits5( Value : Int64) : Int64;
2258: Function ReverseBytes( Value : Word) : Word;
2259: Function ReverseBytes1( Value : Smallint) : Smallint;
2260: Function ReverseBytes2( Value : Integer) : Integer;
2261: Function ReverseBytes3( Value : Cardinal) : Cardinal;
2262: Function ReverseBytes4( Value : Int64) : Int64;
2263: Function ReverseString( const AText : string) : string
2264: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
2265: Function Revert : HRESULT
2266: Function RGB(R,G,B: Byte): TColor;

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2267: Function RGB2BGR( const Color : TColor) : TColor
2268: Function RGB2TColor( R, G, B : Byte) : TColor
2269: Function RGBToWebColorName( RGB : Integer) : string
2270: Function RGBToWebColorStr( RGB : Integer) : string
2271: Function RgbToHtml( Value : TColor) : string
2272: Function HtmlToRgb(const Value: string): TColor;
2273: Function RightStr( const AStr : String; Len : Integer) : String
2274: Function RightStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
2275: Function RightStr( const AText : WideString; const ACount : Integer) : WideString;
2276: Function ROL( Aval : LongWord; AShift : Byte) : LongWord
2277: Function ROR( Aval : LongWord; AShift : Byte) : LongWord
2278: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float) : TFloatPoint
2279: function RotatePoint(Point : TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2280: Function Round(e : Extended) : Longint;
2281: Function Round64(e: extended): Int64;
2282: Function RoundAt( const Value : string; Position : SmallInt) : string
2283: Function RoundFrequency( const Frequency : Integer) : Integer
2284: Function RoundInt( Value : Integer; StepSize : Integer) : Integer
2285: Function RoundPoint( const X, Y : Double) : TPoint
2286: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double) : TRect
2287: Function RowCount : Integer
2288: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2289: Function RowRequest( Row : OleVariant; Options : TFetchOptions) : OleVariant
2290: Function RPos( const ASub, AIn : String; AStart : Integer) : Integer
2291: Function RRot( const Value : Byte; const Count : TBitRange) : Byte;
2292: Function RRot1( const Value : Word; const Count : TBitRange) : Word;
2293: Function RRot2( const Value : Integer; const Count : TBitRange) : Integer;
2294: Function RunDLL32(const ModuleNa,FcName,CmdLine:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2295: Function RunningProcessesList( const List : TStrings; FullPath : Boolean) : Boolean
2296: Function S_AddBackSlash( const ADirName : string) : string
2297: Function S_AllTrl( const cStr : string) : string
2298: Function S_AtRepl( const cAT, cStr, cRepl : string) : string
2299: Function S_Cut( const cStr : string; const ilen : integer) : string
2300: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2301: Function S_DirExists( const Adir : string) : Boolean
2302: Function S_Empty( const cStr : string) : boolean
2303: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2304: Function S_LargeFontsActive : Boolean
2305: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2306: Function S_LTrim( const cStr : string) : string
2307: Function S_ReadNextTextlineFromStream( stream : TStream) : string
2308: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2309: Function S_ReplFirst( const cAT, cStr, cRepl : string) : string
2310: Function S_RoundDecimal( AValue : Extended; APlaces : Integer) : Extended
2311: Function S_RTrim( const cStr : string) : string
2312: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2313: //Type TS_ShellExecuteCmd = (seCmdOpen,seCmdPrint,seCmdExplore);
2314: Function S_ShellExecute( afilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2315: Function S_Space( const iLen : integer) : String
2316: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2317: Function S_StrBlanksCuttoolong( const cStr : string; const iLen : integer) : string
2318: Function S_StrCRC32( const Text : string) : LongWORD
2319: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2320: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2321: Function S_StringtoUTF_8( const AString : string) : string
2322: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2323: function S_StrToReal(const cStr: string; var R: Double): Boolean
2324: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2325: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2326: Function S_UTF_8ToString( const AString : string) : string
2327: Function S_WBox( const AText : string) : integer
2328: Function SameDate( const A, B : TDateTime) : Boolean
2329: function SameDate(const A, B: TDateTime): Boolean;
2330: Function SameDateTime( const A, B : TDateTime) : Boolean
2331: function SameDateTime(const A, B: TDateTime): Boolean;
2332: Function SameFileName( S1, S2 : string) : Boolean
2333: Function SameText( S1, S2 : string) : Boolean
2334: function SameText(const S1: string; const S2: string): Boolean)
2335: Function SameTime( const A, B : TDateTime) : Boolean
2336: function SameTime(const A, B: TDateTime): Boolean;
2337: function SameValue(const A, B: Extended; Epsilon: Extended): Boolean //overload;
2338: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2339: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2340: Function SampleVariance( const X : TDynFloatArray) : Float
2341: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2342: Function Sar1( const Value : Smallint; const Count : TBitRange) : Smallint;
2343: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2344: Function SaveToFile( const AFileName : TFileName) : Boolean
2345: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2346: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2347: Function ScanF(const aformat: String; const args: array of const): string;
2348: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT
2349: Function SearchBuf(Buf:PChar; BufLen:Integer;SelStart,SelLength:Integer;SearchString:String;Options: TStringSearchOptions):PChar
2350: Function SearchBuf2(Buf: string;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer;
2351: function SearchRecattr: integer;
2352: function SearchRecExcludeAttr: integer;
2353: Function SearchRecFileSize64( const SearchRec : TSearchRec) : Int64

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2354: function SearchRecname: string;
2355: function SearchRecsize: integer;
2356: function SearchRecTime: integer;
2357: Function Sec( const X : Extended ) : Extended
2358: Function Secant( const X : Extended ) : Extended
2359: Function SecH( const X : Extended ) : Extended
2360: Function SecondOf( const AValue : TDateTime ) : Word
2361: Function SecondOfTheDay( const AValue : TDateTime ) : LongWord
2362: Function SecondOfTheHour( const AValue : TDateTime ) : Word
2363: Function SecondOfTheMinute( const AValue : TDateTime ) : Word
2364: Function SecondOfTheMonth( const AValue : TDateTime ) : LongWord
2365: Function SecondOfTheWeek( const AValue : TDateTime ) : LongWord
2366: Function SecondOfTheYear( const AValue : TDateTime ) : LongWord
2367: Function SecondsBetween( const ANow, AThen : TDateTime ) : Int64
2368: Function SecondSpan( const ANow, AThen : TDateTime ) : Double
2369: Function SectionExists( const Section : string ) : Boolean
2370: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption ) : Boolean
2371: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint ) : HResult
2372: function Seek(Offset:LongInt;Origin:Word):LongInt
2373: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint) : Boolean;
2374: Function SelectDirectory( const Caption : string; const Root : WideString; var Directory : string;
Options : TSelectDirExtOpts; Parent : TWInControl) : Boolean;
2375: Function SelectImage( var AFileName : string; const Extensions, Filter : string ) : Boolean
2376: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2377: Function SendBuf( var Buf, Count : Integer ) : Integer
2378: Function SendCmd( const AOut : string; const AResponse : SmallInt ) : SmallInt;
2379: Function SendCmdl( const AOut : string; const AResponse : array of SmallInt ) : SmallInt;
2380: Function SendKey( AppName : string; Key : Char ) : Boolean
2381: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2382: Function SendStream( AStream : TStream ) : Boolean
2383: Function SendStreamThenDrop( AStream : TStream ) : Boolean
2384: Function SendText( const S : string ) : Integer
2385: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2386: Function SendSerialText(Data: String): cardinal
2387: Function Sent : Boolean
2388: Function ServicesFilePath: string
2389: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer ) : TColor32
2390: Function SetBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2391: Function SetBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2392: Function SetBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2393: Function SetBit3( const Value : Word; const Bit : TBitRange ) : Word;
2394: Function SetBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2395: Function SetBit4( const Value : Integer; const Bit : TBitRange ) : Integer;
2396: Function SetBit5( const Value : Int64; const Bit : TBitRange ) : Int64;
2397: Function SetClipboard( NewClipboard : TClipboard ) : TClipboard
2398: Function SetColorBlue( const Color : TColor; const Blue : Byte ) : TColor
2399: Function SetColorFlag( const Color : TColor; const Flag : Byte ) : TColor
2400: Function SetColorGreen( const Color : TColor; const Green : Byte ) : TColor
2401: Function SetColorRed( const Color : TColor; const Red : Byte ) : TColor
2402: Function SetCurrentDir( Dir : string ) : Boolean
2403: function SetCurrentDir(const Dir: string): Boolean
2404: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2405: Function SetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
2406: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
2407: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
2408: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
2409: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2410: Function SetEnvironmentVar( const Name, Value : string ) : Boolean
2411: Function SetErrorProc( ErrorProc : TSocketErrorProc ) : TSocketErrorProc
2412: Function SetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
2413: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
2414: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
2415: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer ) : Boolean
2416: function SETFOCUSEDCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2417: Function SetLocalTime( Value : TDateTime ) : boolean
2418: Function SetPrecisionTolerance( NewTolerance : Float ) : Float
2419: Function SetPrinter( NewPrinter : TPrinter ) : TPrinter
2420: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2421: Function SetRGBValue( const Red, Green, Blue : Byte ) : TColor
2422: Function SetSequence( S, Localizar, Substituir : shortstring ) : shortstring
2423: Function SetSize( libNewSize : Longint ) : HResult
2424: Function SetUserObjectFullAccess( hUserObject : THandle ) : Boolean
2425: Function Sgn( const X : Extended ) : Integer
2426: function SHA1(const fileName: string): string;
2427: function SHA256(astr: string; amode: char): string
2428: function SHA512(astr: string; amode: char): string
2429: Function ShareMemoryManager : Boolean
2430: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2431: function ShellExecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2432: Function ShellExecute3(aFilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2433: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE ) : TSHORTCUT
2434: Function SHORTCUTTOTEXT( SHORTCUT : TSHORTCUT ) : String
2435: function ShortDateFormat: string;
2436: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
RTL:Bool;EllipsisWidth:Int):WideString
2437: function ShortTimeFormat: string;
2438: function SHOWMODAL:INTEGER
2439: Function ShowModalControl(aControl : TControl; BS : TFormBorderStyle; BI : TBorderIcons; WS :
TWindowState; aColor : TColor; BW : Integer; Title : String; BeforeShowModal : TNotifyEvent) :
TModalResult';

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2440: Function ShowModalPanel(aPnl: TCustomPanel; Title: String; ShowCloseIcon: Boolean; BeforeShowModal: TNotifyEvent): TModalResult;
2441: function ShowWindow(C1: HWND; C2: integer): boolean;
2442: procedure ShowMemory //in Dialog;
2443: function ShowMemory2: string;
2444: Function ShutDownOS : Boolean;
2445: Function Signe( const X, Y : Extended) : Extended;
2446: Function Sign( const X : Extended) : Integer;
2447: Function Sin(e : Extended) : Extended;
2448: Function sinc( const x : Double) : Double;
2449: Function SinJ( X : Float) : Float;
2450: Function Size( const AFileName : String) : Integer;
2451: function Sizeof: Longint;
2452: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer;
2453: function SlashSep(const Path, S: String): String;
2454: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended;
2455: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD;
2456: Function SmallPoint(X, Y: Integer): TSmallPoint;
2457: Function Soundex( const AText : string; ALen : TSoundexLength) : string;
2458: Function SoundexCompare( const AText, AOther : string; ALen : TSoundexLength) : Integer;
2459: Function SoundexInt( const AText : string; ALen : TSoundexIntLength) : Integer;
2460: Function SoundexProc( const AText, AOther : string) : Boolean;
2461: Function SoundexSimilar( const AText, AOther : string; ALen : TSoundexLength) : Boolean;
2462: Function SoundexWord( const AText : string) : Word;
2463: Function SourcePos : Longint;
2464: function SourcePos: Longint;
2465: Function Split0( Str : string; const substr : string) : TStringList;
2466: Procedure SplitNameValue( const Line : string; var Name, Value : string);
2467: Function SQLRequiresParams( const SQL : WideString) : Boolean;
2468: Function Sqr(e : Extended) : Extended;
2469: Function Sqrt(e : Extended) : Extended;
2470: Function StartIP : String;
2471: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean;
2472: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2473: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2474: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime;
2475: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime;
2476: Function StartOfAYear( const AYear : Word) : TDateTime;
2477: Function StartOfTheDay( const AValue : TDateTime) : TDateTime;
2478: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime;
2479: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime;
2480: Function StartOfTheYear( const AValue : TDateTime) : TDateTime;
2481: Function StartsStr( const ASubText, AText : string) : Boolean;
2482: Function StartsText( const ASubText, AText : string) : Boolean;
2483: Function StartsWith( const ANSIString, APattern : String) : Boolean;
2484: Function StartsWith( const str : string; const sub : string) : Boolean;
2485: Function StartsWithACE( const ABytes : TIdBytes) : Boolean;
2486: Function StatusString( StatusCode : Integer) : string;
2487: Function StdDev( const Data : array of Double) : Extended;
2488: Function Stop : Float;
2489: Function StopCount( var Counter : TJclCounter) : Float;
2490: Function StoreColumns : Boolean;
2491: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2492: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2493: Function StrAlloc( Size : Cardinal) : PChar;
2494: function StrAlloc(Size: Cardinal): PChar;
2495: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2496: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2497: Function StrBufSize( Str : PChar) : Cardinal;
2498: function StrBufSize(const Str: PChar): Cardinal;
2499: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType;
2500: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType;
2501: Function StrCat( Dest : PChar; Source : PChar) : PChar;
2502: function StrCat(Dest: PChar; const Source: PChar): PChar;
2503: Function StrCharLength( Str : PChar) : Integer;
2504: Function StrComp( Str1, Str2 : PChar) : Integer;
2505: function StrComp(const Str1: PChar; const Str2: PChar): Integer;
2506: Function StrCopy( Dest : PChar; Source : PChar) : PChar;
2507: function StrCopy(Dest: PChar; const Source: PChar): PChar;
2508: Function Stream_to_AnsiString( Source : TStream) : ansistring;
2509: Function Stream_to_Base64( Source : TStream) : ansistring;
2510: Function Stream_to_decimalbytes( Source : TStream) : string;
2511: Function Stream2WideString( oStream : TStream) : WideString;
2512: Function StreamtoAansiString( Source : TStream) : ansistring;
2513: Function StreamToByte( Source : TStream) : string;
2514: Function StreamToDecimalbytes( Source : TStream) : string;
2515: Function StreamtoOrd( Source : TStream) : string;
2516: Function StreamToString( Source : TStream) : string;
2517: Function StrECopy( Dest : PChar; Source : PChar) : PChar;
2518: Function StrEmpty( const sString : string) : boolean;
2519: Function StrEnd( Str : PChar) : PChar;
2520: function StrEnd(const Str: PChar): PChar;
2521: Function StrFilter( const sString : string; xValidChars : TCharSet) : string;
2522: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar;
2523: Function StrGet(var S : String; I : Integer) : Char;
2524: Function StrGet2(S : String; I : Integer) : Char;
2525: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean;
2526: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean;
2527: Function StrHtmlDecode( const AStr : String) : String;

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2528: Function StrHtmlEncode( const AStr : String) : String
2529: Function StrToBytes(const Value: String): TBytes;
2530: Function StrIComp( Str1, Str2 : PChar) : Integer
2531: Function StringOfChar(c : char;I : longInt) : String;
2532: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2533: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2534: Function StringRefCount(const s: String): integer;
2535: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2536: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2537: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2538: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2539: Function StringToBoolean( const Ps : string) : Boolean
2540: function StringToColor(const S: string): TColor)
2541: function StringToCursor(const S: string): TCursor;
2542: function StringToGUID(const S: string): TGUID)
2543: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2544: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2545: Function StringWidth( S : string) : Integer
2546: Function StrInternetToDateTIme( Value : string) : TDateTime
2547: Function StrIsDateTIme( const Ps : string) : Boolean
2548: Function StrIsFloatMoney( const Ps : string) : Boolean
2549: Function StrIsInteger( const S : string) : Boolean
2550: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2551: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2552: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2553: Function StrLen( Str : PChar) : Cardinal
2554: function StrLen(const Str: PChar): Cardinal)
2555: Function StrLessPrefix( const sString : string; const sPrefix : string) : string
2556: Function StrLessSuffix( const sString : string; const sSuffix : string) : string
2557: Function StrLIComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2558: Function StrLower( Str : PChar) : PChar
2559: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal) : PChar
2560: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar)
2561: Function StrNew( Str : PChar) : PChar
2562: function StrNextChar( Str : PChar): PChar)
2563: Function StrPad( const sString : string; const sPad : string; const iLength : integer) : string
2564: Function StrParse( var sString : string; const sDelimiters : string) : string;
2565: Function StrParseI( var sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2566: Function StrPas( Str : PChar) : string
2567: function StrPas(const Str: PChar): string)
2568: Function StrPCopy( Dest : PChar; Source : string) : PChar
2569: function StrPCopy(Dest: PChar; const Source: string): PChar)
2570: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal) : PChar
2571: Function StrPos( Str1, Str2 : PChar) : PChar
2572: Function StrScan( const Str: PChar; Chr: Char): PChar)
2573: Function StrRScan( const Str: PChar; Chr: Char): PChar)
2574: Function StrToBcd( const AValue : string) : TBcd
2575: Function StrToBool( S : string) : Boolean
2576: Function StrToCard( const AStr : String) : Cardinal
2577: Function StrToConv( AText : string; out AType : TConvType) : Double
2578: Function StrToCurr( S : string) : Currency;
2579: function StrToCurr(const S: string): Currency)
2580: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2581: Function StrToDate( S : string) : TDateTime;
2582: function StrToDateDef( const s: string): TDateTime;
2583: Function StrToDateDef( S : string; Default : TDateTime) : TDateTime;
2584: function StrToDateDef( S : string; Default : TDateTime) : TDateTime;
2585: Function StrToDateDef( S : string; Default : TDateTime) : TDateTime;
2586: Function StrToDateTIme( S : string) : TDateTime;
2587: function StrToDateTIme(const S: string): TDateTime)
2588: Function StrToDateTImeDef( S : string; Default : TDateTime) : TDateTime;
2589: Function StrToDay( const ADay : string) : Byte
2590: Function StrToFloat( S : string) : Extended;
2591: function StrToFloat(s: String): Extended;
2592: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2593: function StrToFloatDef(const S: string; const Default: Extended): Extended)
2594: Function StrToFloat( S : string) : Extended;
2595: Function StrToFloat2( S : string; FormatSettings : TFormatSettings) : Extended;
2596: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2597: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2598: Function StrToCurr( S : string) : Currency;
2599: Function StrToCurr2( S : string; FormatSettings : TFormatSettings) : Currency;
2600: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2601: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings) : Currency;
2602: Function StrToTime2( S : string; FormatSettings : TFormatSettings) : TDateTime;
2603: Function StrToTimeDef( S : string; Default : TDateTime) : TDateTime;
2604: Function StrToTimeDef2( S : string; Default : TDateTime; FormatSettings:TFormatSettings):TDateTime;
2605: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2606: Function StrToDateTime( S : string) : TDateTime;
2607: Function StrToDateTime2( S : string; FormatSettings : TFormatSettings) : TDateTime;
2608: Function StrToDateTimeDef( S : string; Default : TDateTime) : TDateTime;
2609: Function StrToFloatRegionalIndependent(aValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2610: Function StrToInt( S : string) : Integer
2611: function StrToInt(s: String): Longint;
2612: Function StrToInt64( S : string) : Int64
2613: function StrToInt64(s: String): int64;
2614: Function StrToInt64Def( S : string; Default : Int64) : Int64
2615: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2616: Function StrToIntDef( S : string; Default : Integer) : Integer

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

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2700: function ToCommon( const AValue: Double): Double;
2701: Function Today : TDateTime
2702: Function ToggleBit( const Value : Byte; const Bit : TBitRange) : Byte;
2703: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2704: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2705: Function ToggleBit3( const Value : Word; const Bit : TBitRange) : Word;
2706: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2707: Function ToggleBit5( const Value : Integer; const Bit : TBitRange) : Integer;
2708: Function ToggleBit6( const Value : Int64; const Bit : TBitRange) : Int64;
2709: function TokenComponentIdent: String
2710: Function TokenFloat : Extended
2711: function TokenFloat: Extended
2712: Function TokenInt : Longint
2713: function TokenInt: LongInt
2714: Function TokenString : string
2715: function TokenString: String
2716: Function TokenSymbolIs( const S : string) : Boolean
2717: function TokenSymbolIs(S: String): Boolean
2718: Function Tomorrow : TDateTime
2719: Function ToRightOf( const pc : TControl; piSpace : Integer) : Integer
2720: Function ToString : string
2721: Function TotalVariance( const Data : array of Double) : Extended
2722: Function Trace2( AURL : string) : string;
2723: Function TrackMenu( Button : TToolButton) : Boolean
2724: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN) : INTEGER
2725: Function TranslateURI( const URI : string) : string
2726: Function TranslationMatchesLanguages( Exact : Boolean) : Boolean
2727: Function TransparentStretchBlt( DstDC : HDC; DstX, DstY, DstW, DstH : Integer; SrcDC : HDC; SrcX, SrcY, SrcW, SrcH : Integer; MaskDC : HDC; MaskX, MaskY : Integer) : Boolean
2728: Function Trim( S : string) : string;
2729: Function Trim( S : WideString) : WideString;
2730: Function Trim(s : AnyString) : AnyString;
2731: Function TrimAllOf( ATrim, AText : String) : String
2732: Function TrimLeft( S : string) : string;
2733: Function TrimLeft( S : WideString) : WideString;
2734: function TrimLeft(const S: string): string
2735: Function TrimRight( S : string) : string;
2736: Function TrimRight( S : WideString) : WideString;
2737: function TrimRight(const S: string): string
2738: function TrueBoolStrs: array of string
2739: Function Trunc(e : Extended) : Longint;
2740: Function Trunc64(e: extended): Int64;
2741: Function TruncPower( const Base, Exponent : Float) : Float
2742: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily) : Boolean;
2743: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily) : Boolean;
2744: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2745: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime) : Boolean
2746: Function TryEncodeDateMonthWeek( const AY, AMonth, AWeekOfMonth, ADayOfWeek: Word; var AValue: TDateTime): Boolean
2747: Function TryEncodeDateTime( const AYear, AMonth, ADay, AHour, AMin, ASec, AMilliSecond: Word; out AValue: TDateTime): Boolean
2748: Function TryEncodeDateWeek( const AY, AWeekOfYear: Word; out AValue: TDateTime; const ADayOfWeek: Word): Boolean
2749: Function TryEncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek: Word; out AVal: TDateTime): Bool
2750: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2751: Function TryFloatToDateTime( Value : Extended; AResult : TDateTime) : Boolean
2752: Function TryJulianDateToDateTime( const AValue : Double; out ADatetime : TDateTime) : Boolean
2753: Function TryLock : Boolean
2754: Function TryModifiedJulianDateToDateTime( const AValue : Double; out ADatetime : TDateTime) : Boolean
2755: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecound, AMilliSecond : Word; out AResult : TDateTime) : Boolean
2756: Function TryStrToBcd( const AValue : string; var Bcd : TBcd) : Boolean
2757: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType) : Boolean
2758: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2759: Function TryStrToDateTime( S : string; Value : TDateTime) : Boolean;
2760: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2761: Function TryStrToInt( const S: AnsiString; var I: Integer): Boolean;
2762: Function TryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2763: Function TwoByteToWord( AByte1, AByte2 : Byte) : Word
2764: Function TwoCharToWord( AChar1, AChar2 : Char) : Word
2765: Function TwoToY( const Y : Float) : Float
2766: Function UCS4StringToWideString( const S : UCS4String) : WideString
2767: Function UIDL( const ADest : TStrings; const AMsgNum : Integer) : Boolean
2768: function Unassigned: Variant;
2769: Function UndoLastChange( FollowChange : Boolean) : Boolean
2770: function UniCodeToStr(Value: string): string;
2771: Function UnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
2772: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean
2773: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal) : TDateTime
2774: Function UnixPathToDosPath( const Path : string) : string
2775: Function UnixToDateTIme( const AValue : Int64) : TDateTime
2776: function UnixToDateTIme(U: Int64): TDateTime;
2777: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
2778: Function UnlockResource( ResData : HGLOBAL) : LongBool
2779: Function UnlockVolume( var Handle : THandle) : Boolean
2780: Function UnMaskString( Mask, Value : String) : String
2781: function UpCase(ch : Char) : Char;
2782: Function UpCaseFirst( const AStr : string) : string
2783: Function UpCaseFirstWord( const AStr : string) : string
2784: Function UpdateAction( Action : TBasicAction) : Boolean

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

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2874: Function VarArrayRef( const A : Variant) : Variant
2875: Function VarTypeIsValidArrayType( const AVarType : TVarType) : Boolean
2876: Function VarTypeIsValidElementType( const AVarType : TVarType) : Boolean
2877: Function VarArrayDimCount( const A : Variant) : Integer
2878: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer
2879: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer
2880: Function VarArrayLock( const A : Variant) : __Pointer
2881: Procedure VarArrayUnlock( const A : Variant)
2882: Function VarArrayGet( const A : Variant; const Indices : array of Integer) : Variant
2883: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer)
2884: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer)
2885: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer)
2886: Function Unassigned : Variant
2887: Function Null : Variant
2888: Function VectorAdd( const V1, V2 : TFloatPoint) : TFfloatPoint
2889: function VectorAdd(const V1,V2: TFfloatPoint): TFfloatPoint;
2890: Function VectorDot( const V1, V2 : TFfloatPoint) : Double
2891: function VectorDot(const V1,V2: TFfloatPoint): Double;
2892: Function VectorLengthSqr( const V : TFfloatPoint) : Double
2893: function VectorLengthSqr(const V: TFfloatPoint): Double;
2894: Function VectorMult( const V : TFfloatPoint; const s : Double) : TFfloatPoint
2895: function VectorMult(const V: TFfloatPoint; const s: Double): TFfloatPoint;
2896: Function VectorSubtract( const V1, V2 : TFfloatPoint) : TFfloatPoint
2897: function VectorSubtract(const V1,V2: TFfloatPoint): TFfloatPoint;
2898: Function Verify( AUserName : String) : String
2899: Function Versine( X : Float) : Float
2900: function VersionCheck: boolean;
2901: function VersionCheckAct: string;
2902: Function VersionLanguageId( const LangIdRec : TLangIdRec) : string
2903: Function VersionLanguageName( const LangId : Word) : string
2904: Function VersionResourceAvailable( const FileName : string) : Boolean
2905: Function Visible : Boolean
2906: function VolumeID(DriveChar: Char): string
2907: Function WaitFor( const AString : string) : string
2908: Function WaitFor( const TimeOut : Cardinal) : TJclWaitResult
2909: Function WaitFor1 : TWaitResult;
2910: Function WaitForData( Timeout : Longint) : Boolean
2911: Function WebColorNameToColor( WebColorName : string) : TColor
2912: Function WebColorStrToColor( WebColor : string) : TColor
2913: Function WebColorToRGB( WebColor : Integer) : Integer
2914: Function wGet(aURL, afile: string): boolean;
2915: Function wGet2(aURL, afile: string): boolean; //without file open
2916: Function WebGet(aURL, afile: string): boolean;
2917: Function WebExists: boolean; //alias to isinternet
2918: Function WeekOf( const AValue : TDateTime) : Word
2919: Function WeekOfTheMonth( const AValue : TDateTime) : Word;
2920: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word) : Word;
2921: Function WeekOfTheYear( const AValue : TDateTime) : Word;
2922: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word) : Word;
2923: Function WeeksBetween( const ANow, AThen : TDateTime) : Integer
2924: Function WeeksInAYear( const AYear : Word) : Word
2925: Function WeeksInYear( const AValue : TDateTime) : Word
2926: Function WeekSpan( const ANow, ATThen : TDateTime) : Double
2927: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineBreakStyle) : WideString
2928: Function WideCat( const x, y : WideString) : WideString
2929: Function WideCompareStr( S1, S2 : WideString) : Integer
2930: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2931: Function WideCompareText( S1, S2 : WideString) : Integer
2932: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2933: Function WideCopy( const src : WideString; index, count : Integer) : WideString
2934: Function WideDequotedStr( const S : WideString; AQuote : WideChar) : WideString
2935: Function WideEqual( const x, y : WideString) : Boolean
2936: function WideFormat(const Format: WideString; const Args: array of const): WideString
2937: Function WideGreater( const x, y : WideString) : Boolean
2938: Function WideLength( const src : WideString) : Integer
2939: Function WideLess( const x, y : WideString) : Boolean
2940: Function WideLowerCase( S : WideString) : WideString
2941: function WideLowerCase(const S: WideString): WideString
2942: Function WidePos( const src, sub : WideString) : Integer
2943: Function WideQuotedStr( const S : WideString; Quote : WideChar) : WideString
2944: Function WideReplaceStr( const AText, AFromText, AToText : WideString) : WideString
2945: Function WideReplaceText( const AText, AFromText, AToText : WideString) : WideString
2946: Function WideSameStr( S1, S2 : WideString) : Boolean
2947: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
2948: Function WideSameText( S1, S2 : WideString) : Boolean
2949: function WideSameText(const S1: WideString; const S2: WideString): Boolean
2950: Function WideStringReplace(const S,OldPattern, NewPattern: Widestring; Flags: TReplaceFlags): Widestring
2951: Function WideStringToUCS4String( const S : WideString) : UCS4String
2952: Function WideUpperCase( S : WideString) : WideString
2953: Function Win32BackupFile( const FileName : string; Move : Boolean) : Boolean
2954: function Win32Check(RetVal: boolean): boolean
2955: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
2956: Function Win32RestoreFile( const FileName : string) : Boolean
2957: Function Win32Type : TIIdWin32Type
2958: Function WinColor( const Color32 : TColor32) : TColor
2959: function winexec(FileName: pchar; showCmd: integer): integer;
2960: Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
2961: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
2962: Function WithinPastDays( const ANow, ATThen : TDateTime; const ADays : Integer) : Boolean

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2963: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64 ) : Boolean
2964: Function WithinPastMilliSeconds( const ANow, AThen : TDateTime; const AMilliSeconds : Int64 ) : Boolean
2965: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64 ) : Boolean
2966: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer ) : Boolean
2967: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASeconds : Int64 ) : Boolean
2968: Function WithinPastWeeks( const ANow, AThen : TDateTime; const AWeeks : Integer ) : Boolean
2969: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer ) : Boolean
2970: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
2971: Function WordToStr( const Value : Word ) : String
2972: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
2973: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
2974: Procedure GetWordGridFormatValues( Proc : TGetStrProc )
2975: Function WorkArea : Integer
2976: Function WrapText( Line : string; MaxCol : Integer ) : string;
2977: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
2978: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HResult
2979: function Write(Buffer:String;Count:LongInt):LongInt
2980: Function WriteClient( var Buffer, Count : Integer ) : Integer
2981: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal
2982: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string ) : Boolean
2983: Function WriteString( const AString : string ) : Boolean
2984: Function WStrGet( var S : AnyString; I : Integer ) : WideChar;
2985: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list ) : Integer
2986: Function wsprintf( Output : PChar; Format : PChar ) : Integer
2987: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string ) : string
2988: Function XmlTimeToStr( const XmlTime : string; const Format : string ) : string
2989: Function XorDecode( const Key, Source : string ) : string
2990: Function XorEncode( const Key, Source : string ) : string
2991: Function XorString( const Key, Src : ShortString ) : ShortString
2992: Function Yield : Bool
2993: Function Yearof( const AValue : TDateTime ) : Word
2994: Function YearsBetween( const ANow, AThen : TDateTime ) : Integer
2995: Function YearSpan( const ANow, AThen : TDateTime ) : Double
2996: Function Yesterday : TDateTime
2997: Function YesNoDialog( const ACaption, AMsg: string): boolean;
2998: Function( const Name : string; Proc : TUserFunction)
2999: Function using Special_Scholz from 3.8.5.0
3000: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3001: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3002: Function FloatToTime2Dec(value:Extended):Extended;
3003: Function MinToStd(value:Extended):Extended;
3004: Function MinToStdAsString(value:Extended):String;
3005: Function RoundfloatToStr(zahl:Extended; decimals:integer):String;
3006: Function Roundfloat(zahl:Extended; decimals:integer):Extended;
3007: Function Round2Dec (zahl:Extended):Extended;
3008: Function GetAngle(x,y:Extended):Double;
3009: Function AddAngle(a1,a2:Double):Double;
3010:
3011: ****
3012: unit UPSI_StText;
3013: ****
3014: Function TextSeek( var F : TextFile; Target : LongInt ) : Boolean
3015: Function TextFileSize( var F : TextFile ) : LongInt
3016: Function TextPos( var F : TextFile ) : LongInt
3017: Function TextFlush( var F : TextFile ) : Boolean
3018:
3019: ****
3020: from JvVCLUtils;
3021: ****
3022: { Windows resources (bitmaps and icons) VCL-oriented routines }
3023: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3024: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX,DstY: Integer; Bitmap:TBitmap;TransparColor:TColor);
3025: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect; Bitmap: TBitmap; TransparentColor: TColor);
3026: function MakeBitmap(ResID: PChar): TBitmap;
3027: function MakeBitmapID(ResID: Word): TBitmap;
3028: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3029: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3030: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3031: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
3032:   HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3033: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3034: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3035: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3036: {$IFDEF WIN32}
3037: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
3038:   X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3039: {$ENDIF}
3040: function MakeIcon(ResID: PChar): TIcon;
3041: function MakeIconID(ResID: Word): TIcon;
3042: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3043: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3044: {$IFDEF WIN32}
3045: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3046: {$ENDIF}
3047: { Service routines }
3048: procedure NotImplemented;
3049: procedure ResourceNotFound(ResID: PChar);
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3050: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3051: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3052: function PaletteColor(Color: TColor): Longint;
3053: function WidthOf(R: TRect): Integer;
3054: function HeightOf(R: TRect): Integer;
3055: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3056: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3057: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3058: procedure Delay(MSecs: Longint);
3059: procedure CenterControl(Control: TControl);
3060: Function PaletteEntries( Palette : HPALETTE ) : Integer
3061: Function WindowClassName( Wnd : HWND ) : string
3062: Function ScreenWorkArea : TRect
3063: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3064: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3065: Procedure ActivateWindow( Wnd : HWND )
3066: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3067: Procedure CenterWindow( Wnd : HWND )
3068: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3069: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3070: Function DialogsToPixelsX( Dlgs : Word) : Word
3071: Function DialogsToPixelsY( Dlgs : Word) : Word
3072: Function PixelsToDialogsX( Pixs : Word) : Word
3073: Function PixelsToDialogsY( Pixs : Word) : Word
3074: {$IFDEF WIN32}
3075: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3076: function MakeVariant(const Values: array of Variant): Variant;
3077: {$ENDIF}
3078: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3079: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3080: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3081: {$IFDEF CBuilder}
3082: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3083: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3084: {$ELSE}
3085: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3086: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3087: {$ENDIF CBuilder}
3088: function IsForegroundTask: Boolean;
3089: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3090: function GetAveCharSize(Canvas: TCanvas): TPoint;
3091: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3092: procedure FreeUnusedOle;
3093: procedure Beep;
3094: function GetWindowsVersion: string;
3095: function LoadDLL(const LibName: string): THandle;
3096: function RegisterServer(const ModuleName: string): Boolean;
3097: {$IFNDEF WIN32}
3098: function IsLibrary: Boolean;
3099: {$ENDIF}
3100: { Gradient filling routine }
3101: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3102: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3103: { String routines }
3104: function GetEnvVar(const VarName: string): string;
3105: function AnsiUpperFirstChar(const S: string): string;
3106: function StringToPChar(var S: string): PChar;
3107: function StrPAalloc(const S: string): PChar;
3108: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3109: function DropT(const S: string): string;
3110: { Memory routines }
3111: function AllocMemo(Size: Longint): Pointer;
3112: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3113: procedure FreeMemo(var fpBlock: Pointer);
3114: function GetMemoSize(fpBlock: Pointer): Longint;
3115: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3116: {$IFDEF COMPILERS_UP}
3117: procedure FreeAndNil(var Obj);
3118: {$ENDIF}
3119: // from PNGLoader
3120: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3121: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3122: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3123: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3124: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3125: Function IsAnAllResult( const AModalResult : TModalResult ) : Boolean
3126: Function InitWndProc( HWindow : HWND; Message, WParam : Longint; LParam : Longint ) : Longint
3127: AddConstantN('CTL3D_ALL','LongWord').SetUInt($FFFF);
3128: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)
3129: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint ) : Longint
3130: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3131: Procedure SetIMEMode( hWnd : HWND; Mode : TIMEMode)
3132: Procedure SetIMEName( Name : TIMEName)
3133: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean) : Boolean
3134: Function Imm32GetContext( hWnd : HWND ) : HIMC
3135: Function Imm32ReleaseContext( hWnd : HWND; hIMC : HIMC ) : Boolean
3136: Function Imm32GetConversionStatus( hIMC : HIMC; var Conversion, Sentence : longword ) : Boolean

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3137: Function Imm32SetConversionStatus( hImc : HIMC; Conversion, Sentence : longword ) : Boolean
3138: Function Imm32SetOpenStatus( hImc : HIMC; fOpen : Boolean ) : Boolean
3139: // Function Imm32SetCompositionWindow( hImc : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3140: //Function Imm32SetCompositionFont( hImc : HIMC; lpLogFont : PLOGFONTA ) : Boolean
3141: Function Imm32GetCompositionString(hImc:HIMC;dwWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3142: Function Imm32IsIMB( hKl : longword ) : Boolean
3143: Function Imm32NotifyIME( hImc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3144: Procedure DragDone( Drop : Boolean)
3145:
3146:
3147: //*****added from jvvcutils
3148: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3149: function ReplaceComponentReference(This,NewReference:TComponent;var VarReference:TComponent):Boolean;
3150: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3151: function IsPositiveResult(Value: TModalResult): Boolean;
3152: function IsNegativeResult(Value: TModalResult): Boolean;
3153: function IsAbortResult(const Value: TModalResult): Boolean;
3154: function StripAllFromResult(const Value: TModalResult): TModalResult;
3155: // returns either BrightColor or DarkColor depending on the luminance of AColor
3156: // This function gives the same result (AFAIK) as the function used in Windows to
3157: // calculate the desktop icon text color based on the desktop background color
3158: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3159: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3160:
3161: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3162:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3163:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3164:   var LinkName: string; Scale: Integer = 100); overload;
3165: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3166:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3167:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3168:   var LinkName: string; Scale: Integer = 100); overload;
3169: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3170:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3171: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3172:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3173:   Scale: Integer = 100): string;
3174: function HTMLPlainText(const Text: string): string;
3175: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3176:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3177: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3178:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3179: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3180: function HTMLPrepareText(const Text: string): string;
3181:
3182: ***** uPSI_JvAppUtils;
3183: Function GetDefaultSection( Component : TComponent ) : string
3184: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean)
3185: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string )
3186: Function GetDefaultIniName : string
3187: //OnGetDefaultIniName,'OnGetDefaultIniName';
3188: Function GetDefaultIniRegKey : string
3189: Function FindForm( FormClass : TFormClass ) : TForm
3190: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm
3191: Function ShowDialog( FormClass : TFormClass ) : Boolean
3192: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm
3193: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3194: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3195: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile )
3196: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string )
3197: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string )
3198: Function GetUniquefileNameInDir( const Path, FileNameMask : string ) : string
3199: Function StrToIniStr( const Str : string ) : string
3200: Function IniStrToStr( const Str : string ) : string
3201: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string
3202: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string )
3203: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint
3204: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint )
3205: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean
3206: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean )
3207: Procedure IniReadSections( IniFile : TObject; Strings : TStrings )
3208: Procedure IniEraseSection( IniFile : TObject; const Section : string )
3209: Procedure IniDeleteKey( IniFile : TObject; const Section, Ident : string )
3210: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint )
3211: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint )
3212: Procedure AppTaskbarIcons( AppOnly : Boolean )
3213: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3214: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3215: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject )
3216: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject )
3217: ***** uPSI_JvDBUtils;
3218: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject
3219: Function IsDataSetEmpty( DataSet : TDataSet ) : Boolean
3220: Procedure RefreshQuery( Query : TDataSet )
3221: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3222: Function DataSetSectionName( DataSet : TDataSet ) : string
3223: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string )
3224: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool)
3225: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
Options: TLocateOptions) : Boolean

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3226: Procedure SaveFields( DataSet : TDataSet; IniFile : TIIniFile)
3227: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIIniFile; RestoreVisible : Boolean)
3228: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean)
3229: Function ConfirmDelete : Boolean
3230: Procedure ConfirmDataSetCancel( DataSet : TDataSet)
3231: Procedure CheckRequiredField( Field : TField)
3232: Procedure CheckRequiredFields( const Fields : array of TField)
3233: Function DateToSQL( Value : TDateTime ) : string
3234: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string ) : string
3235: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string ) : string
3236: Function FormatSQLNumericRange( const FieldName:string;LowVal,HighVal,LowEmpty,
   HighEmpty:Double;Inclusive:Bool):string
3237: Function StrMaskSQL( const Value : string ) : string
3238: Function FormatSQLCondition( const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3239: Function FormatAnsiSQLCondition( const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3240: Procedure _DBError( const Msg : string )
3241: Const ('TrueExpr','String '0=0
3242: Const ('sdfStandard16','String ''''''mm''/''dd''/''yyyy'''')
3243: Const ('sdfStandard32','String ''''''dd/mm/yyyy'''')
3244: Const ('sdfOracle','String ''TO_DATE('''dd/mm/yyyy''' , ''DD/MM/YYYY'')')
3245: Const ('sdfInterbase','String ''CAST('''mm''/''dd''/''yyyy''' AS DATE)'')
3246: Const ('sdfMSSQL','String ''CONVERT(datetime, ''''mm''/''dd''/''yyyy''' , 103)')
3247: AddTypes('Largeint', 'Longint'
3248: addTypes('TIEException', '(ErNoModelError, erCannotImport, erInvalidType, ErInternalError, '+
3249:   'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3250:   'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3251:   'erVersionError, ErDivideByZero, ErMathError, erCouldNotCallProc, erOutOfRecordRange, '+
3252:   'erOutOfMemory, erException, erNullPointerException, erNullVariantError, erInterfaceNotSupportedException);*
3253: (*-----*)
3254: procedure SIRegister_JclIniFiles(CL: TPSPascalCompiler);
3255: begin
3256:   Function JIniReadBool( const FileName, Section, Line : string ) : Boolean
3257:   Function JIniReadInteger( const FileName, Section, Line : string ) : Integer
3258:   Function JIniReadString( const FileName, Section, Line : string ) : string
3259:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3260:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3261:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3262:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3263:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3264: end;
3265:
3266: (* === compile-time registration functions === *)
3267: (*-----*)
3268: procedure SIRegister_JclDateTime(CL: TPSPascalCompiler);
3269: begin
3270:   'UnixTimeStart', 'LongInt'( 25569 );
3271:   Function JEncodeDate( const Year : Integer; Month, Day : Word ) : TDateTime
3272:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word );
3273:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word );
3274:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer );
3275:   Function CenturyOfDate( const Date : TDateTime ) : Integer
3276:   Function CenturyBaseYear( const Date : TDateTime ) : Integer
3277:   Function DayOfDate( const Date : TDateTime ) : Integer
3278:   Function MonthOfDay( const Date : TDateTime ) : Integer
3279:   Function YearOfDate( const Date : TDateTime ) : Integer
3280:   Function JDdayOfTheYear( const Date : TDateTime; var Year : Integer ) : Integer;
3281:   Function DayOfTheYear1( const Date : TDateTime ) : Integer;
3282:   Function DayOfTheYearToDate( const Year, Day : Integer ) : TDateTime
3283:   Function HourOfTime( const Date : TDateTime ) : Integer
3284:   Function MinuteOfTime( const Date : TDateTime ) : Integer
3285:   Function SecondOfTime( const Date : TDateTime ) : Integer
3286:   Function GetISOYearNumberOfDays( const Year : Word ) : Word
3287:   Function IsISOLongYear( const Year : Word ) : Boolean;
3288:   Function IsISOLongYear1( const Date : TDateTime ) : Boolean;
3289:   Function ISODayOfWeek( const Date : TDateTime ) : Word
3290:   Function JISOWeekNumber( Date : TDateTime; var YearOfWeekNumber, WeekDay : Integer ) : Integer;
3291:   Function ISOWeekNumber1( Date : TDateTime; var YearOfWeekNumber : Integer ) : Integer;
3292:   Function ISOWeekNumber2( Date : TDateTime ) : Integer;
3293:   Function ISOWeekToDate( const Year, Week, Day : Integer ) : TDateTime
3294:   Function JISLeapYear( const Year : Integer ) : Boolean;
3295:   Function IsLeapYear1( const Date : TDateTime ) : Boolean;
3296:   Function JDdaysInMonth( const Date : TDateTime ) : Integer
3297:   Function Make4DigitYear( Year, Pivot : Integer ) : Integer
3298:   Function JMakeYear4Digit( Year, WindowsYear : Integer ) : Integer
3299:   Function JEasterSunday( const Year : Integer ) : TDateTime // TDosDateTime', 'Integer
3300:   Function JFormatDateTime( Form : string; Date : TDateTime ) : string
3301:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3302:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime ) : Boolean;
3303:   Function HoursToMSEcs( Hours : Integer ) : Integer
3304:   Function MinutesToMSEcs( Minutes : Integer ) : Integer
3305:   Function SecondsToMSEcs( Seconds : Integer ) : Integer
3306:   Function TimeOfDateToSeconds( Date : TDateTime ) : Integer
3307:   Function TimeOfDateTimeToMSEcs( Date : TDateTime ) : Integer
3308:   Function DateTimeToLocalDateTime( Date : TDateTime ) : TDateTime
3309:   Function LocalDateTimeToDate( Date : TDateTime ) : TDateTime
3310:   Function DateTimeToDosDateTime( const Date : TDateTime ) : TDosDateTime
3311:   Function JDDateTimeToFileTime( Date : TDateTime ) : TFileTime
3312:   Function JDDateTimeToSystemTime( Date : TDateTime ) : TSystemTime;
3313:   Procedure DateTimeToSystemTime1( Date : TDateTime; var SysTime : TSystemTime );

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3314: Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3315: Function DosDateTimeToDateTime( const DosTime : TDosDateTime ) : TDateTime
3316: Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3317: Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3318: Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3319: Function DosDateTimeToStr( DateTime : Integer ) : string
3320: Function JFileTimeToDateTime( const FileTime : TFileTime ) : TDateTime
3321: Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3322: Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3323: Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3324: Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3325: Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime );
3326: Function FileTimeToStr( const FileTime : TFileTime ) : string
3327: Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3328: Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3329: Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3330: Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3331: Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3332: Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3333: Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3334: TJclUnixTime32', 'Longword
3335: Function JDatetimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3336: Function JUnixTimeToDateTime( const UnixTime : TJclUnixTime32 ) : TDateTime
3337: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3338: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3339: Function JNullStamp : TTimeStamp
3340: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3341: Function JEQualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3342: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3343: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3344: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3345: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3346: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3347: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3348: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3349: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3350: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3351: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3352: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3353: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3354: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3355: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3356: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3357: FindClass('TOBJECT'), 'EJclDateModelError
3358: end;
3359:
3360: procedure SIRegister_JclMiscel2(CL: TPPSPascalCompiler);
3361: begin
3362:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3363:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3364:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3365:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3366:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3367:   TJclKillLevel', '( k1Normal, k1NoSignal, k1TimeOut )
3368:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3369:   Function LogOffOS( Killlevel : TJclKillLevel ) : Boolean
3370:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3371:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3372:   Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3373:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3374:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3375:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean):Boolean;;
3376:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3377:   Function AbortShutDown : Boolean;
3378:   Function AbortShutDown1( const MachineName : string ) : Boolean;
3379:   TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3380:   TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3381:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3382:   FindClass('TOBJECT'), 'EJclCreateProcessError
3383:   Procedure CreateProcAsUser( const UserDomain, UserName, Password, CommandLine : string )
3384:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const
      Environment:PChar);
3385:   // with Add(EJclCreateProcessError) do
3386: end;
3387:
3388:
3389: procedure SIRegister_JclAnsiStrings(CL: TPPSPascalCompiler);
3390: begin
3391:   // 'AnsiSigns', 'Set').SetSet(['-', '+']);
3392:   'C1_UPPER', 'LongWord( $0001);
3393:   'C1_LOWER', 'LongWord( $0002);
3394:   'C1_DIGIT', 'LongWord').SetUInt( $0004);
3395:   'C1_SPACE', 'LongWord').SetUInt( $0008);
3396:   'C1_PUNCT', 'LongWord').SetUInt( $0010);
3397:   'C1_CNTRL', 'LongWord').SetUInt( $0020);
3398:   'C1_BLANK', 'LongWord').SetUInt( $0040);
3399:   'C1_XDIGIT', 'LongWord').SetUInt( $0080);
3400:   'C1_ALPHA', 'LongWord').SetUInt( $0100);
3401:   AnsiChar', 'Char

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

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

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3577: Function IsDirectory( const DatabaseName : string ) : Boolean
3578: Function GetBdeDirectory : string
3579: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3580: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3581: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3582: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3583: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3584: Function DataSetPositionStr( DataSet : TDataSet ) : string
3585: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean )
3586: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3587: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3588: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3589: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3590: Procedure RestoreIndex( Table : TTable )
3591: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3592: Procedure PackTable( Table : TTable )
3593: Procedure ReindexTable( Table : TTable )
3594: Procedure BdeFlushBuffers
3595: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3596: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string )
3597: Procedure DbNotSupported
3598: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
    AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint )
3599: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
    AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter,AsciiSeparator:Char;MaxRecordCount:Longint );
3600: Procedure
    ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3601: Procedure InitRSRUN(Database : TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3602: *****uPSI_JvDateUtil;
3603: function CurrentYear: Word;
3604: function IsLeapYear(AYear: Integer): Boolean;
3605: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3606: function FirstDayOfPrevMonth: TDateTime;
3607: function LastDayOfPrevMonth: TDateTime;
3608: function FirstDayOfNextMonth: TDateTime;
3609: function ExtractDay(ADate: TDateTime): Word;
3610: function ExtractMonth(ADate: TDateTime): Word;
3611: function ExtractYear(ADate: TDateTime): Word;
3612: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3613: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3614: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3615: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3616: function ValidateDate(ADate: TDateTime): Boolean;
3617: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3618: function MonthsBetween(Date1, Date2: TDateTime): Double;
3619: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3620: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3621: function DaysBetween(Date1, Date2: TDateTime): Longint;
3622: { The same as previous but if Date2 < Date1 result = 0 }
3623: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3624: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3625: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3626: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3627: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3628: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3629: { String to date conversions }
3630: function GetDateOrder(const DateFormat: string): TDateOrder;
3631: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3632: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3633: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3634: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3635: function DefDateFormat(FourDigitYear: Boolean): string;
3636: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3637: -----
3638: ***** JvUtils***** JvUtils*****
3639: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3640: function GetWordOnPos(const S: string; const P: Integer): string;
3641: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3642: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3643: { SubStr returns substring from string, S, separated with Separator string}
3644: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3645: { SubStrEnd same to previous function but Index numerated from the end of string }
3646: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3647: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3648: function SubWord(P: PChar; var P2: PChar): string;
3649: { NumberByWord returns the text representation of
3650:   the number, N, in normal russian language. Was typed from Monitor magazine }
3651: function NumberByWord(const N: Longint): string;
3652: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3653: //the symbol Pos is pointed. Lines separated with #13 symbol }
3654: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3655: { GetXYByPos is same to previous function, but returns X position in line too}
3656: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3657: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3658: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3659: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3660: function ConcatSep(const S, S2, Separator: string): string;
3661: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3662: function ConcatLeftSep(const S, S2, Separator: string): string;

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

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3750: function TTFontSelected(const DC: HDC): Boolean;
3751: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3752: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3753: {*** Windows routines }
3754: { SetWindowTop put window to top without recreating window }
3755: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3756: {*** other routines }
3757: { KeyPressed returns True, if Key VK is now pressed }
3758: function KeyPressed(VK: Integer): Boolean;
3759: procedure SwapInt(var Int1, Int2: Integer);
3760: function IntPower(Base, Exponent: Integer): Integer;
3761: function ChangeTopException(E: TObject): TObject;
3762: function StrToBool(const S: string): Boolean;
3763: {$IFDEF COMPILER3_UP}
3764: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3765:   Length of MaxLen bytes. The compare operation is controlled by the
3766:   current Windows locale. The return value is the same as for CompareStr. }
3767: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3768: function AnsiStrICmp(S1, S2: PChar): Integer;
3769: {$ENDIF}
3770: function Var2Type(V: Variant; const VarType: Integer): Variant;
3771: function VarToInt(V: Variant): Integer;
3772: function VarToFloat(V: Variant): Double;
3773: { following functions are not documented because they are don't work properly , so don't use them }
3774: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3775: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3776: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3777: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3778: function GetParameter: string;
3779: function GetLongFileName(FileName: string): string;
3780: {* from FileCtrl}
3781: function DirectoryExists(const Name: string): Boolean;
3782: procedure ForceDirectories(Dir: string);
3783: {# from FileCtrl}
3784: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3785: function GetComputerID: string;
3786: function GetComputerName: string;
3787: {*** string routines }
3788: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
3789:   same Index.Also see RAUtils.ReplaceSokr function }
3790: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3791: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3792:   in the list, Words, and if finds, replaces this Word with string from another list, Frases, with the
3793:   same Index, and then update NewSelStart variable }
3794: function ReplaceSokr(S:string;PosBeg:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3795: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3796: function CountOfLines(const S: string): Integer;
3797: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3798: procedure DeleteEmptyLines(Ss: TStrings);
3799: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3800:   Note: If strings SQL allready contains where-statement, it must be started on begining of any line }
3801: {*** files routines - }
3802: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3803:   Resource can be compressed using MS Compress program}
3804: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3805: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3806: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3807: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3808: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3809: { IniReadSection read section, Section, from ini-file,
3810:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3811:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3812: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3813: function LoadTextFile(const FileName: TFileName): string;
3814: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3815: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3816: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3817: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3818: {$IFDEF COMPILER3_UP}
3819: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3820: function TargetFileName(const FileName: TFileName): TFileName;
3821: { return filename ShortCut linked to }
3822: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3823: {$ENDIF COMPILER3_UP}
3824: {*** Graphic routines - }
3825: { LoadIconToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3826: procedure LoadIconToImage(ALarge, ASmall: TImageList; const NameRes: string);
3827: { RATETextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3828: procedure RATETextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3829: { RATETextOutEx same with RATETextOut function, but can calculate needed height for correct output }
3830: function RATETextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;
3831: { RATETextCalcHeight calculate needed height to correct output, using RATETextOut or RATETextOutEx functions }
3832: function RATETextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3833: { Cinema draws some visual effect }
3834: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3835: { Roughed fills rect with special 3D pattern }
3836: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);

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3837: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
      and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
3838: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3839: { TextWidth calculate text width for writing using standard desktop font }
3840: function TextWidth(AString: string): Integer;
3841: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3842: function DefineCursor(Identifier: PChar): TCursor;
3843: {**** other routines - }
3844: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3845: function FindFormByClass(FormClass: TFormClass): TForm;
3846: function FindFormByClassName(FormClassName: string): TForm;
3847: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
      having Tag property value, equaled to Tag parameter }
3848: function FindByTag(WinControl: TWinControl; ComponentClass: TComponentClass; const Tag: Integer): TComponent;
3849: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3850: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3851: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3852: function RBTag(Parent: TWinControl): Integer;
3853: function AppMinimized: Boolean;
3854: { AppMinimized returns True, if Application is minimized }
3855: function AppMinimized: Boolean;
3856: { MessageBox is Application.MessageBox with string (not PChar) parameters.
      if Caption parameter = '', it replaced with Application.Title }
3857: if Caption parameter = '', it replaced with Application.Title
3858: function MessageBoxJ(const Msg: string; Caption: string; const Flags: Integer): Integer;
3859: function MsgDlg2(const Msg: string; ACaption: string; DlgType: TMsgDlgType);
3860: Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3861: function MsgDlgDef(const Msg: string; ACaption: string; DlgType: TMsgDlgType);
3862: Buttons: TMsgDlgButtons; DefButton: TMsgDlgBtn; HelpContext: Integer; Control: TWinControl): Integer;
3863: { Delay stop program execution to MSec msec }
3864: procedure Delay(MSec: Longword);
3865: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3866: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3867: procedure EnableMenuItems(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3868: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3869: function PanelBorder(Panel: TCustomPanel): Integer;
3870: function Pixels(Control: TControl; APixels: Integer): Integer;
3871: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3872: procedure Error(const Msg: string);
3873: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
      const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3874: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>'}
3875: const HideSelColor: Boolean; string;
3876: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
      const HideSelColor: Boolean): string;
3877: const HideSelColor: Boolean; Integer;
3878: function ItemHtPlain(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
      const HideSelColor: Boolean): string;
3879: const HideSelColor: Boolean; Integer;
3880: function ItemHtPlain(const Text: string): string;
3881: { ClearList - clears list of TObject }
3882: procedure ClearList(List: TList);
3883: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3884: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3885: { RTTI support }
3886: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3887: function GetPropStr(Obj: TObject; const PropName: string): string;
3888: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3889: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3890: procedure PrepareIniSection(SS: TStrings);
3891: { following functions are not documented because they are don't work properly, so don't use them }
3892: {$IFDEF COMPILER2}
3893: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3894: {$ENDIF}
3895:
3896: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3897: begin
3898: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3899: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3900: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
      Accept:Bool;Sorted:Bool;
3901: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3902: Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)
3903: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3904: Function BoxGetFirstSelection( List : TWinControl ) : Integer
3905: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3906: end;
3907:
3908: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3909: begin
3910: Const ('MaxInitStrNum', 'LongInt' ( 9));
3911: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar: AnsiChar; var OutStrings
      : array of AnsiString; MaxSplit : Integer ) : Integer
3912: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
      string; MaxSplit : Integer ) : Integer
3913: Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
      QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3914: Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3915: Function JvStrStrip( S : string ) : string
3916: Function GetString( var Source : AnsiString; const Separator : AnsiString ) : AnsiString
3917: Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3918: Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3919: Function StrEatWhiteSpace( const S : string ) : string
3920: Function HexToAscii( const S : AnsiString ) : AnsiString

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3921: Function AsciiToHex( const S : AnsiString ) : AnsiString
3922: Function StripQuotes( const S1 : AnsiString ) : AnsiString
3923: Function ValidNumericLiteral( S1 : PAnciChar ) : Boolean
3924: Function ValidIntLiteral( S1 : PAnciChar ) : Boolean
3925: Function ValidHexLiteral( S1 : PAnciChar ) : Boolean
3926: Function HexPCharToInt( S1 : PAnciChar ) : Integer
3927: Function ValidStringLiteral( S1 : PAnciChar ) : Boolean
3928: Function StripPCharQuotes( S1 : PAnciChar ) : AnsiString
3929: Function JvValidIdentifierAansi( S1 : PAnciChar ) : Boolean
3930: Function JvValidIdentifier( S1 : String ) : Boolean
3931: Function JvEndChar( X : AnsiChar ) : Boolean
3932: Procedure JvGetToken( S1, S2 : PAnciChar )
3933: Function IsExpressionKeyword( S1 : PAnciChar ) : Boolean
3934: Function IsKeyword( S1 : PAnciChar ) : Boolean
3935: Function JvValidVarReference( S1 : PAnciChar ) : Boolean
3936: Function GetParenthesis( S1, S2 : PAnciChar ) : Boolean
3937: Procedure JvGetVarReference( S1, S2, SIdx : PAnciChar )
3938: Procedure JvEatWhitespaceChars( S1 : PAnciChar );
3939: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
3940: Function GetTokenCount : Integer
3941: Procedure ResetTokenCount
3942: end;
3943:
3944: procedure SIRegister_JvDBQueryParamsForm(CL: TPSpascalCompiler);
3945: begin
3946:   SIRegister_TJvQueryParamsDialog(CL);
3947:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
3948: end;
3949:
3950: ***** JvStringUtil / JvStrUtils;*****
3951: function FindNotBlankCharPos(const S: string): Integer;
3952: function AnsiChangeCase(const S: string): string;
3953: function GetWordOnPos(const S: string; const P: Integer): string;
3954: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3955: function Cmp(const S1, S2: string): Boolean;
3956: { Spaces returns string consists on N space chars }
3957: function Spaces(const N: Integer): string;
3958: { HasChar returns True, if char, Ch, contains in string, S }
3959: function HasChar(const Ch: Char; const S: string): Boolean;
3960: function HasAnyChar(const Chars: string; const S: string): Boolean;
3961: { SubStr returns substring from string, S, separated with Separator string}
3962: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3963: { SubStrEnd same to previous function but Index numerated from the end of string }
3964: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3965: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
3966: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3967: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3968: { GetXYByPos is same to previous function, but returns X position in line too}
3969: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3970: { AddSlash returns string with added slash char to Dir parameter, if needed }
3971: function AddSlash2(const Dir: TFileName): string;
3972: { AddPath returns FileName with Path, if FileName not contain any path }
3973: function AddPath(const FileName, Path: TFileName): TFileName;
3974: { ExePath returns ExtractFilePath(ParamStr(0)) }
3975: function ExePath: TFileName;
3976: function LoadTextFile(const FileName: TFileName): string;
3977: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3978: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3979: function ConcatSep(const S, S2, Separator: string): string;
3980: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3981: function FileEquMask(FileName, Mask: TFileName): Boolean;
3982: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3983:   Masks must be separated with comma ';' }
3984: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3985: function StringEndsWith(const Str, SubStr: string): Boolean;
3986: function ExtractFilePath2(const FileName: string): string;
3987: function StrToOem(const AnsiStr: string): string;
3988: { StrToOem translates a string from the Windows character set into the OEM character set. }
3989: function OemToAnsiStr(const OemStr: string): string;
3990: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
3991: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
3992: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
3993: function ReplaceStr(const S, Srch, Replace: string): string;
3994: { Returns string with every occurrence of Srch string replaced with Replace string. }
3995: function DelSpace(const S: string): string;
3996: { DelSpace return a string with all white spaces removed. }
3997: function DelChars(const S: string; Chr: Char): string;
3998: { DelChars return a string with all Chr characters removed. }
3999: function DelBSpace(const S: string): string;
4000: { DelBSpace trims leading spaces from the given string. }
4001: function DelESpace(const S: string): string;
4002: { DelESpace trims trailing spaces from the given string. }
4003: function DelRSpace(const S: string): string;
4004: { DelRSpace trims leading and trailing spaces from the given string. }
4005: function DelSpace1(const S: string): string;
4006: { DelSpace1 return a string with all non-single white spaces removed. }
4007: function Tab2Space(const S: string; Numb: Byte): string;
4008: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4009: function NPos(const C: string; S: string; N: Integer): Integer;

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

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4098: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4099: {$IFDEF COMPILER4_UP}
4100: function GetFileSize(const FileName: string): Int64;
4101: {$ELSE}
4102: function GetFileSize(const FileName: string): Longint;
4103: {$ENDIF}
4104: function FileDateTime(const FileName: string): TDateTime;
4105: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4106: function DeleteFiles(const FileMode: string): Boolean;
4107: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4108: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4109: function NormalDir(const DirName: string): string;
4110: function RemoveBackSlash(const DirName: string): string;
4111: function ValidfileName(const FileName: string): Boolean;
4112: function DirExists(Name: string): Boolean;
4113: procedure ForceDirectories(Dir: string);
4114: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4115: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4116: {$IFDEF COMPILER4_UP}
4117: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4118: {$ENDIF}
4119: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4120: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4121: {$IFDEF COMPILER4_UP}
4122: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4123: {$ENDIF}
4124: function GetTempDir: string;
4125: function GetWindowsDir: string;
4126: function GetSystemDir: string;
4127: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4128: {$IFDEF WIN32}
4129: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4130: function ShortToLongFileName(const ShortName: string): string;
4131: function ShortToLongPath(const ShortName: string): string;
4132: function LongToShortFileName(const LongName: string): string;
4133: function LongToShortPath(const LongName: string): string;
4134: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4135: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4136: {$ENDIF WIN32}
4137: {$IFDEF COMPILER3_UP}
4138: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4139: {$ENDIF}
4140: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4141: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4142: Function CreatePopupCalculator( AOwner : TComponent ) : TWinControl;
4143: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4144:
4145: //*****procedure SIRegister_VarHlpr(CL: TPSPascalCompiler);
4146: Procedure VariantClear( var V : Variant );
4147: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4148: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4149: Procedure VariantCpy( const src : Variant; var dst : Variant );
4150: Procedure VariantAdd( const src : Variant; var dst : Variant );
4151: Procedure VariantSub( const src : Variant; var dst : Variant );
4152: Procedure VariantMul( const src : Variant; var dst : Variant );
4153: Procedure VariantDiv( const src : Variant; var dst : Variant );
4154: Procedure VariantMod( const src : Variant; var dst : Variant );
4155: Procedure VariantAnd( const src : Variant; var dst : Variant );
4156: Procedure VariantOr( const src : Variant; var dst : Variant );
4157: Procedure VariantXor( const src : Variant; var dst : Variant );
4158: Procedure VariantShl( const src : Variant; var dst : Variant );
4159: Procedure VariantShr( const src : Variant; var dst : Variant );
4160: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4161: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4162: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4163: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4164: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4165: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4166: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4167: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4168: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4169: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4170: Function VariantNot( const V1 : Variant ) : Variant;
4171: Function VariantNeg( const V1 : Variant ) : Variant;
4172: Function VariantGetElement( const V : Variant; i1 : integer ) : Variant;
4173: Function VariantGetElement1( const V : Variant; i1, i2 : integer ) : Variant;
4174: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer ) : Variant;
4175: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer ) : Variant;
4176: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer ) : Variant;
4177: Procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer );
4178: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer );
4179: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer );
4180: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer );
4181: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer );
4182: end;
4183:
4184: *****unit uPSI_JvgUtils;*****
4185: function IsEven(I: Integer): Boolean;
4186: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;

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

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4274: Procedure BeginGlobalLoading
4275: Procedure NotifyGlobalLoading
4276: Procedure EndGlobalLoading
4277: Function GetUltimateOwner1( ACollection : TCollection ) : TPersistent;
4278: Function GetUltimateOwner( APersistent : TPersistent ) : TPersistent;
4279: // AddTypeS('TWndMethod', 'Procedure (var Message : TMessage)
4280: //Function MakeObjectInstance( Method : TWndMethod ) : Pointer
4281: Procedure FreeObjectInstance( ObjectInstance : Pointer )
4282: // Function AllocateHWnd( Method : TWndMethod ) : HWnd
4283: Procedure DeAllocateHWnd( Wnd : HWnd )
4284: Function AncestorIsValid( Ancestor : TPersistent; Root, RootAncestor : TComponent ) : Boolean
4285: *****unit uPSI_SqlTimSt and DB;*****
4286: Procedure VarSQLTimeStampCreate4( var aDest : Variant; const ASQLTimeStamp : TSQLOTimeStamp );
4287: Function VarSQLTimeStampCreate3: Variant;
4288: Function VarSQLTimeStampCreate2( const AValue : string ) : Variant;
4289: Function VarSQLTimeStampCreate1( const AValue : TDateTime ) : Variant;
4290: Function VarSQLTimeStampCreate( const ASQLTimeStamp : TSQLOTimeStamp ) : Variant;
4291: Function VarSQLTimeStamp : TVarType
4292: Function VarIsSQLTimeStamp( const aValue : Variant ) : Boolean;
4293: Function LocalToUTC( var TZInfo : TTTimeZone; var Value : TSQLOTimeStamp ) : TSQLOTimeStamp //beta
4294: Function UTCToLocal( var TZInfo : TTTimeZone; var Value : TSQLOTimeStamp ) : TSQLOTimeStamp //beta
4295: Function VarToSQLTimeStamp( const aValue : Variant ) : TSQLOTimeStamp
4296: Function SQLTimeStampToStr( const Format : string; DateTime : TSQLOTimeStamp ) : string
4297: Function SQLDayOfWeek( const DateTime : TSQLOTimeStamp ) : integer
4298: Function DateTimeToSQLTimeStamp( const DateTime : TDateTime ) : TSQLOTimeStamp
4299: Function SQLTimeStampToDate( const DateTime : TSQLOTimeStamp ) : TDateTime
4300: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQLOTimeStamp ) : Boolean
4301: Function StrToSQLTimeStamp( const S : string ) : TSQLOTimeStamp
4302: Procedure CheckSQLTimeStamp( const ASQLTimeStamp : TSQLOTimeStamp )
4303: Function ExtractFieldName( const Fields : string; var Pos : Integer ) : string;
4304: Function ExtractFieldName( const Fields : WideString; var Pos : Integer ) : WideString;
4305: //Procedure RegisterFields( const FieldClasses : array of TFieldClass )
4306: Procedure DatabaseError( const Message : WideString; Component : TComponent )
4307: Procedure DatabaseErrorFmt( const Message:WideString; const Args:array of const;Component:TComponent )
4308: Procedure DisposeMem( var Buffer, Size : Integer )
4309: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer ) : Boolean
4310: Function GetFieldProperty(DataSet:TDataSet; Control:TComponent; const FieldName: WideString): TField
4311: Function VarTypeToDataType( VarType : Integer ) : TFieldType
4312: *****unit JVStrings;*****
4313: {template functions}
4314: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4315: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4316: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4317: function RemoveMasterBlocks(const SourceStr: string): string;
4318: function RemoveFields(const SourceStr: string): string;
4319: {http functions}
4320: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4321: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4322: {set functions}
4323: procedure SplitSet(AText: string; AList: TStringList);
4324: function JoinSet(AList: TStringList): string;
4325: function FirstOfSet(const AText: string): string;
4326: function LastOfSet(const AText: string): string;
4327: function CountOfSet(const AText: string): Integer;
4328: function SetRotateRight(const AText: string): string;
4329: function SetRotateLeft(const AText: string): string;
4330: function SetPick(const AText: string; AIndex: Integer): string;
4331: function SetSort(const AText: string): string;
4332: function SetUnion(const Set1, Set2: string): string;
4333: function SetIntersect(const Set1, Set2: string): string;
4334: function SetExclude(const Set1, Set2: string): string;
4335: {replace any <,> etc by &lt;,&gt;}
4336: function XMLSafe(const AText: string): string;
4337: {simple hash, Result can be used in Encrypt}
4338: function Hash(const AText: string): Integer;
4339: { Base64 encode and decode a string }
4340: function B64Encode(const S: AnsiString): AnsiString;
4341: function B64Decode(const S: AnsiString): AnsiString;
4342: {Basic encryption from a Borland Example}
4343: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4344: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4345: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4346: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4347: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4348: procedure CSVToTags(Src, Dst: TStringList);
4349: // converts a csv list to a tagged string list
4350: procedure TagsToCSV(Src, Dst: TStringList);
4351: // converts a tagged string list to a csv list
4352: // only fieldnames from the first record are scanned in the other records
4353: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4354: {selects akey=avalue from Src and returns recordset in Dst}
4355: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4356: {filters Src for akey=avalue}
4357: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4358: {orders a tagged Src list by akey}
4359: function PosStr(const FindString, SourceString: string);
4360: StartPos: Integer = 1): Integer;
4361: { PosStr searches the first occurrence of a substring FindString in a string
4362: given by SourceString with case sensitivity (upper and lower case characters

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

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4450: // returns the easter date of a year.
4451: function GetWeekNumber(Today: TDateTime): string;
4452: //gets a datecode. Returns year and weeknumber in format: YYWW
4453: function ParseNumber(const S: string): Integer;
4454: // parse number returns the last position, starting from 1
4455: function ParseDate(const S: string): Integer;
4456: // parse a SQL style data string from positions 1,
4457: // starts and ends with #
4458:
4459: *****unit JvJCLUtils;*****
4460:
4461: function VarIsInt(Value: Variant): Boolean;
4462: // VarIsInt returns VarIsOrdinal-[varBoolean]
4463: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4464: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4465: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4466: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4467: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4468: function GetWordOnPos(const S: string; const P: Integer): string;
4469: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4470: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4471: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4472: { GetWordOnPosEx working like GetWordOnPos function, but
4473:   also returns Word position in iBeg, iEnd variables }
4474: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4475: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4476: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4477: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4478: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4479: { GetEndPosCaret returns the caret position of the last char. For the position
4480:   after the last char of Text you must add 1 to the returned X value. }
4481: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4482: { GetEndPosCaret returns the caret position of the last char. For the position
4483:   after the last char of Text you must add 1 to the returned X value. }
4484: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4485: function SubStrBySeparator(const S:string;const Index:Integer;const
        Separator:string;StartIndex:Int=1):string;
4486: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
        Separator:WideString;StartIndex:Int:WideString;
4487: { SubStrEnd same to previous function but Index numerated from the end of string }
4488: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4489: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4490: function SubWord(P: PChar; var P2: PChar): string;
4491: function CurrencyByWord(Value: Currency): string;
4492: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4493: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4494: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4495: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4496: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4497: { ReplaceString searches for all substrings, OldPattern,
4498:   in a string, S, and replaces them with NewPattern }
4499: function ReplaceString(S: string; const OldPattern,NewPattern: string; StartIndex:Integer = 1):string;
4500: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
        WideString;StartIndex:Integer=1):WideString;
4501: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4502: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
        SUPPORTS_INLINE}
4503: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4504: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
        SUPPORTS_INLINE}
4505:
4506: { Next 4 function for russian chars transliterating.
4507:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4508: procedure Dos2Win(var S: AnsiString);
4509: procedure Win2Dos(var S: AnsiString);
4510: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4511: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$IFDEF SUPPORTS_INLINE}
4512: function Win2Koi(const S: AnsiString): AnsiString;
4513: { FillString fills the string Buffer with Count Chars }
4514: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4515: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4516: { MoveString copies Count Chars from Source to Dest }
4517: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
        inline; {$ENDIF SUPPORTS_INLINE} overload;
4518: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
        DstStartIdx: Integer;Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4519: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4520: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4521: { MoveWideChar copies Count WideChars from Source to Dest }
4522: procedure MoveWideChar(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
        inline; {$ENDIF SUPPORTS_INLINE}
4523: { FillNativeChar fills Buffer with Count NativeChars }
4524: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
        SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4525: { MoveWideChar copies Count WideChars from Source to Dest }
4526: procedure MoveNativeChar(const Source: string; var Dest: string; Count: Integer); // D2009 internal error {$IFDEF
        SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4527: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4528: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;

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4530: { Spaces returns string consists on N space chars }
4531: function Spaces(const N: Integer): string;
4532: { Adds spaces adds spaces to string S, if its Length is smaller than N }
4533: function AddSpaces(const S: string; const N: Integer): string;
4534: function SpacesW(const N: Integer): WideString;
4535: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4536: { function LastDateRUS for russian users only }
4537: { returns date relative to current date: 'ååå åÿÿ fåçää' }
4538: function LastDateRUS(const Dat: TDateTime): string;
4539: { CurrencyToStr format Currency, Cur, using ffcurrency float format}
4540: function CurrencyToStr(const Cur: Currency): string;
4541: { HasChar returns True, if Char, Ch, contains in string, S }
4542: function HasChar(const Ch: Char; const S: string): Boolean;
4543: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline: {$ENDIF SUPPORTS_INLINE}
4544: function HasAnyChar(const Chars: string; const S: string): Boolean;
4545: {$IFDEF COMPILER12_UP}
4546: function CharInSet(const Ch: AnsiChar;const SetOfChar:TSysCharSet):Boolean;inline:{$ENDIF SUPPORTS_INLINE}
4547: {$ENDIF ~COMPILER12_UP}
4548: function CharInSetW(const Ch: WideChar;const SetOfChar: TSysCharSet):Boolean;inline: {$ENDIF SUPPORTS_INLINE}
4549: function CountOfChar(const Ch: Char; const S: string): Integer;
4550: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4551: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4552: function StrLICompW2(S1, S2: PWideChar; MaxLen: Integer): Integer;
4553: function StrPosW(S, SubStr: PWideChar): PWideChar;
4554: function StrLenW(S: PWideChar): Integer;
4555: function TrimW(const S: WideString):WideString;{$IFDEF SUPPORTS_INLINE} inline:{$ENDIF SUPPORTS_INLINE}
4556: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4557: function TrimRightW(const S: WideString): WideString; inline: {$ENDIF SUPPORTS_INLINE}
4558: TPixelFormat', '( pfDevice, pflbit, pf4bit, pf8bit, pf24bit )
4559: TMappingMethod', '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4560: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4561: Function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4562: Procedure SetBitmapPixelFormat( Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4563: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4564: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4565: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4566: Procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer )
4567: Function ScreenPixelFormat : TPixelFormat
4568: Function ScreenColorCount : Integer
4569: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic)
4570: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean) : TPoint
4571: // SJRegister_TJvGradient(CL);
4572:
4573: {***** files routines}
4574: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4575: const
4576: {$IFDEF MSWINDOWS}
4577: DefaultCaseSensitivity = False;
4578: {$ENDIF MSWINDOWS}
4579: {$IFDEF UNIX}
4580: DefaultCaseSensitivity = True;
4581: {$ENDIF UNIX}
4582: { GenTempFileName returns temporary file name on
4583:   drive, there FileName is placed }
4584: function GenTempFileName(FileName: string): string;
4585: { GenTempFileNameExt same to previous function, but
4586:   returning filename has given extension, FileExt }
4587: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4588: { ClearDir clears folder Dir }
4589: function ClearDir(const Dir: string): Boolean;
4590: { DeleteDir clears and than delete folder Dir }
4591: function DeleteDir(const Dir: string): Boolean;
4592: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4593: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4594: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4595:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4596: function FileEquMasks(FileName, Masks: TFileName;
4597: CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4598: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4599: {$IFDEF MSWINDOWS}
4600: { LZFileExpand expand file, FileSource,
4601:   into FileDest. Given file must be compressed, using MS Compress program }
4602: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4603: {$ENDIF MSWINDOWS}
4604: { FileInfo fills SearchRec record for specified file attributes}
4605: function FileInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4606: { HasSubFolder returns True, if folder APath contains other folders }
4607: function HasSubFolder(APath: TFileName): Boolean;
4608: { IsEmptyFolder returns True, if there are no files or
4609:   folders in given folder, APATH}
4610: function IsEmptyFolder(APath: TFileName): Boolean;
4611: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4612: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4613: { AddPath returns FileName with Path, if FileName not contain any path }
4614: function AddPath(const FileName, Path: TFileName): TFileName;
4615: function AddPaths(const PathList, Path: string): string;

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

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

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

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4879: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4880: function ExtractQuotedString(const S: string; Quote: Char): string;
4881: { ExtractQuotedString removes the Quote characters from the beginning and
4882:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character.}
4883: function FindPart(const HelpWilds, InputStr: string): Integer;
4884: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4885: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4886: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4887: function XorString(const Key, Src: ShortString): ShortString;
4888: function XorEncode(const Key, Source: string): string;
4889: function XorDecode(const Key, Source: string): string;
4890: { ** Command line routines ** }
4891: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4892: { ** Numeric string handling routines ** }
4893: function Numb2USA(const S: string): string;
4894: { Numb2USA converts numeric string S to USA-format. }
4895: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4896: { Dec2Hex converts the given value to a hexadecimal string representation
4897:   with the minimum number of digits (A) specified. }
4898: function Hex2Dec(const S: string): Longint;
4899: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4900: function Dec2Numb(N: Int64; A, B: Byte): string;
4901: { Dec2Numb converts the given value to a string representation with the
4902:   base equal to B and with the minimum number of digits (A) specified. }
4903: function Numb2Dec(S: string; B: Byte): Int64;
4904: { Numb2Dec converts the given B-based numeric string to the corresponding
4905:   integer value. }
4906: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4907: { IntToBin converts the given value to a binary string representation
4908:   with the minimum number of digits specified. }
4909: function IntToRoman(Value: Longint): string;
4910: { IntToRoman converts the given value to a roman numeric string representation. }
4911: function RomanToInt(const S: string): Longint;
4912: { RomanToInt converts the given string to an integer value. If the string
4913:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4914: function FindNotBlankCharPos(const S: string): Integer;
4915: function FindNotBlankCharPosW(const S: WideString): Integer;
4916: function AnsiChangeCase(const S: string): string;
4917: function WideChangeCase(const S: string): string;
4918: function StartsText(const SubStr, S: string): Boolean;
4919: function EndsText(const SubStr, S: string): Boolean;
4920: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4921: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4922: {end JvStrUtils}
4923: {$IFDEF UNIX}
4924: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4925: {$ENDIF UNIX}
4926: { begin JvFileUtil }
4927: function FileDateTime(const FileName: string): TDateTime;
4928: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4929: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4930: function NormalDir(const DirName: string): string;
4931: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4932: function ValidFileName(const FileName: string): Boolean;
4933: {$IFDEF MSWINDOWS}
4934: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4935: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4936: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4937: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4938: {$ENDIF MSWINDOWS}
4939: function GetWindowsDir: string;
4940: function GetSystemDir: string;
4941: function ShortToLongFileName(const ShortName: string): string;
4942: function LongToShortFileName(const LongName: string): string;
4943: function ShortToLongPath(const ShortName: string): string;
4944: function LongToShortPath(const LongName: string): string;
4945: {$IFDEF MSWINDOWS}
4946: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4947: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4948: {$ENDIF MSWINDOWS}
4949: { end JvFileUtil }
4950: // Works like PtInRect but includes all edges in comparision
4951: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4952: // Works like PtInRect but excludes all edges from comparision
4953: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4954: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
4955: function IsFourDigitYear: Boolean;
4956: { moved from JvJVCLUtils }
4957: //Open an object with the shell (url or something like that)
4958: function OpenObject(const Value: string): Boolean; overload;
4959: function OpenObject(Value: PChar): Boolean; overload;
4960: {$IFDEF MSWINDOWS}
4961: //Raise the last Exception
4962: procedure RaiseLastWin32; overload;
4963: procedure RaiseLastWin32(const Text: string); overload;
4964: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
4965: //significant 32 bits of a file's binary version number. Typically, this includes the major and minor
4966: //version placed together in one 32-bit Integer. I
4967: function GetFileVersion(const AFileName: string): Cardinal;

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4966: {$EXTERNALSYM GetFileVersion}
4967: //Get version of Shell.dll
4968: function GetShellVersion: Cardinal;
4969: {$EXTERNALSYM GetShellVersion}
4970: // CD functions on HW
4971: procedure OpenCdDrive;
4972: procedure CloseCdDrive;
4973: // returns True if Drive is accessible
4974: function DiskInDrive(Drive: Char): Boolean;
4975: {$ENDIF MSWINDOWS}
4976: //Same as linux function ;
4977: procedure PError(const Text: string);
4978: // execute a program without waiting
4979: procedure Exec(const FileName, Parameters, Directory: string);
4980: // execute a program and wait for it to finish
4981: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
4982: // returns True if this is the first instance of the program that is running
4983: function FirstInstance(const ATitle: string): Boolean;
4984: // restores a window based on it's classname and Caption. Either can be left empty
4985: // to widen the search
4986: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4987: // manipulate the traybar and start button
4988: procedure HideTraybar;
4989: procedure ShowTraybar;
4990: procedure ShowStartButton(Visible: Boolean = True);
4991: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
4992: procedure MonitorOn;
4993: procedure MonitorOff;
4994: procedure LowPower;
4995: // send a key to the window named AppName
4996: function SendKey(const AppName: string; Key: Char): Boolean;
4997: {$IFDEF MSWINDOWS}
4998: // returns a list of all win currently visible, the Objects property is filled with their window handle
4999: procedure GetVisibleWindows(List: TStrings);
5000: Function GetVisibleWindowsF( List : TStrings):TStrings';
5001: // associates an extension to a specific program
5002: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5003: procedure AddToRecentDocs(const FileName: string);
5004: function GetRecentDocs: TStringList;
5005: {$ENDIF MSWINDOWS}
5006: function CharIsMoney(const Ch: Char): Boolean;
5007: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5008: function IntToExtended(I: Integer): Extended;
5009: { GetChangedText works out the new text given the current cursor pos & the key pressed
  It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5010: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5011: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5012: function StrIsInteger(const S: string): Boolean;
5013: function StrIsFloatMoney(const Ps: string): Boolean;
5014: function StrIsDateTime(const Ps: string): Boolean;
5015: function PrefORMATDateString(Ps: string): string;
5016: function BooleanToInteger(const B: Boolean): Integer;
5017: function StringToBoolean(const Ps: string): Boolean;
5018: function SafeStrToDate(const Ps: string): TDateTime;
5019: function SafeStrToDate(const Ps: string): TDateTime;
5020: function SafeStrToTime(const Ps: string): TDateTime;
5021: function SafeStrToTime(const Ps: string): TDateTime;
5022: function StrDelete(const psSub, psMain: string): string;
5023: { returns the fractional value of pcValue}
5024: function TimeOnly(pcValue: TDateTime): TTime;
5025: { returns the integral value of pcValue }
5026: function DateOnly(pcValue: TDateTime): TDate;
5027: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5028: const { TDateTime value used to signify Null value}
5029: NullEquivalentDate: TDateTime = 0.0;
5030: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5031: // Replacement for Win32Check to avoid platform specific warnings in D6
5032: function OSCheck(RetVal: Boolean): Boolean;
5033: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
  Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
  not be forced to use FileCtrl unnecessarily }
5034: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5035: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5036: { MinimizeString truncates long string, S, and appends...' symbols,if Length of S is more than MaxLen }
5037: function MinimizeString(const S: string; const MaxLen: Integer): string;
5040: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5041: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
  minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
  found.}
5042: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5043: {$ENDIF MSWINDOWS}
5044: procedure ResourceNotFound(ResID: PChar);
5045: function EmptyRect: TRect;
5046: function RectWidth(R: TRect): Integer;
5047: function RectHeight(R: TRect): Integer;
5048: function CompareRect(const R1, R2: TRect): Boolean;
5049: procedure RectNormalize(var R: TRect);
5050: function RectIsSquare(const R: TRect): Boolean;
5051: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;

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

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5140: Procedure EnsureMonth( Month : Word)
5141: Procedure EnsureDOW( DOW : Word)
5142: Function EqualDates( D1, D2 : TDateTime) : Boolean
5143: Function Lesser( N1, N2 : Integer) : Integer
5144: Function Greater( N1, N2 : Integer) : Integer
5145: Function GetDivLength( TotalLength, DivCount, DivNum : Integer) : Integer
5146: Function GetDivNum( TotalLength, DivCount, X : Integer) : Integer
5147: Function GetDivStart( TotalLength, DivCount, DivNum : Integer) : Integer
5148: Function DOWToBorl( ADOW : TTFDayOfWeek) : Integer
5149: Function BorlToDOW( BorlDOW : Integer) : TTFDayOfWeek
5150: Function DateToDOW( ADate : TDateTime) : TTFDayOfWeek
5151: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
AFont:TFont;AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5152: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5153: Function JRectWidth( ARect : TRect) : Integer
5154: Function JRectHeight( ARect : TRect) : Integer
5155: Function JEmptyRect : TRect
5156: Function IsClassByName( Obj : TObject; ClassName : string) : Boolean
5157:
5158: procedure SIRegister_MSysUtils(CL: TPPSPascalCompiler);
5159: begin
5160: Procedure HideTaskBarButton( hWindow : HWND)
5161: Function msLoadStr( ID : Integer) : String
5162: Function msFormat( fmt : String; params : array of const) : String
5163: Function msFileExists( const FileName : String) : Boolean
5164: Function msIntToStr( Int : Int64) : String
5165: Function msStrPas( const Str : PChar) : String
5166: Function msRenamefile( const OldName, NewName : String) : Boolean
5167: Function CutFileName( s : String) : String
5168: Function GetVersionInfo( var VersionString : String) : DWORD
5169: Function FormatTime( t : Cardinal) : String
5170: Function msCreateDir( const Dir : string) : Boolean
5171: Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5172: Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5173: Function msStrLen( Str : PChar) : Integer
5174: Function msDirectoryExists( const Directory : String) : Boolean
5175: Function GetFolder( hWnd : HWND; RootDir : Integer; Caption : String) : String
5176: Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5177: Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5178: Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5179: Function GetTextFromFile( Filename : String) : string
5180: Function IsTopMost( hWnd : HWND) : Bool // 'LWA_ALPHA', 'LongWord').SetUIInt( $00000002);
5181: Function msStrToIntDef( const s : String; const i : Integer) : Integer
5182: Function msStrToInt( s : String) : Integer
5183: Function GetItemText( hDlg : THandle; ID : DWORD) : String
5184: end;
5185:
5186: procedure SIRegister_ESBMaths2(CL: TPPSPascalCompiler);
5187: begin
5188: //TDynFloatArray', 'array of Extended
5189: TDynLWordArray', 'array of LongWord
5190: TDynLIntArray', 'array of LongInt
5191: TDynFloatMatrix', 'array of TDynFloatArray
5192: TDynLWordMatrix', 'array of TDynLWordArray
5193: TDynLIntMatrix', 'array of TDynLIntArray
5194: Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5195: Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5196: Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5197: Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5198: Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5199: Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5200: Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5201: Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5202: Function DotProduct( const X, Y : TDynFloatArray) : Extended
5203: Function MNorm( const X : TDynFloatArray) : Extended
5204: Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5205: Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean);
5206: Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5207: Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5208: Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5209: Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5210: Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5211: Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5212: Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5213: Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5214: Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5215: Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5216: Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5217: end;
5218:
5219: procedure SIRegister_ESBMaths(CL: TPPSPascalCompiler);
5220: begin
5221: 'ESBMinSingle','Single').setExtended( 1.5e-45);
5222: 'ESBMaxSingle','Single').setExtended( 3.4e+38);
5223: 'ESBMinDouble','Double').setExtended( 5.0e-324);
5224: 'ESBMaxDouble','Double').setExtended( 1.7e+308);
5225: 'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5226: 'ESBMaxExtended','Extended').setExtended( 1.1e+4932);

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5227: 'ESBMinCurrency', 'Currency').SetExtended( - 922337203685477.5807);
5228: 'ESBMaxCurrency', 'Currency').SetExtended( 922337203685477.5807);
5229: 'ESBSqrt2', 'Extended').setExtended( 1.4142135623730950488);
5230: 'ESBSqrt3', 'Extended').setExtended( 1.7320508075688772935);
5231: 'ESBSqrt5', 'Extended').setExtended( 2.2360679774997896964);
5232: 'ESBSqrt10', 'Extended').setExtended( 3.1622776601683793320);
5233: 'ESBSqrtPi', 'Extended').setExtended( 1.77245385090551602729);
5234: 'ESBCbrt2', 'Extended').setExtended( 1.2599210498948731648);
5235: 'ESBCbrt3', 'Extended').setExtended( 1.4422495703074083823);
5236: 'ESBCbrt10', 'Extended').setExtended( 2.1544346900318837219);
5237: 'ESBCbrt100', 'Extended').setExtended( 4.6415888336127788924);
5238: 'ESBCbrtPi', 'Extended').setExtended( 1.4645918875615232630);
5239: 'ESBInvSqrt2', 'Extended').setExtended( 0.70710678118654752440);
5240: 'ESBInvSqrt3', 'Extended').setExtended( 0.57735026918962576451);
5241: 'ESBInvSqrt5', 'Extended').setExtended( 0.44721359549995793928);
5242: 'ESBInvSqrtPi', 'Extended').setExtended( 0.56418958354775628695);
5243: 'ESBInvCbrtPi', 'Extended').setExtended( 0.68278406325529568147);
5244: 'ESe', 'Extended').setExtended( 2.7182818284590452354);
5245: 'ESBe2', 'Extended').setExtended( 7.3890560989306502272);
5246: 'ESBePi', 'Extended').setExtended( 23.140692632779269006);
5247: 'ESBePiOn2', 'Extended').setExtended( 4.8104773809653516555);
5248: 'ESBePiOn4', 'Extended').setExtended( 2.1932800507380154566);
5249: 'ESBLn2', 'Extended').setExtended( 0.69314718055994530942);
5250: 'ESBLn10', 'Extended').setExtended( 2.30258509299404568402);
5251: 'ESBLnPi', 'Extended').setExtended( 1.14472988584940017414);
5252: 'ESBLog10Base2', 'Extended').setExtended( 3.3219280948873623478);
5253: 'ESBLog2Base10', 'Extended').setExtended( 0.30102999566398119521);
5254: 'ESBLog3Base10', 'Extended').setExtended( 0.47712125471966243730);
5255: 'ESBLogPiBase10', 'Extended').setExtended( 0.4971498726941339);
5256: 'ESBLogEBase10', 'Extended').setExtended( 0.43429448190325182765);
5257: 'ESBPi', 'Extended').setExtended( 3.1415926535897932385);
5258: 'ESBInvPi', 'Extended').setExtended( 3.1830988618379067154e-1);
5259: 'ESBTwoPi', 'Extended').setExtended( 6.2831853071795864769);
5260: 'ESBThreePi', 'Extended').setExtended( 9.4247779607693797153);
5261: 'ESBPi2', 'Extended').setExtended( 9.8696044010893586188);
5262: 'ESBPiToE', 'Extended').setExtended( 22.459157718361045473);
5263: 'ESBPiOn2', 'Extended').setExtended( 1.5707963267948966192);
5264: 'ESBPiOn3', 'Extended').setExtended( 1.0471975511965977462);
5265: 'ESBPiOn4', 'Extended').setExtended( 0.7853981633974483096);
5266: 'ESBThreePiOn2', 'Extended').setExtended( 4.7123889803846898577);
5267: 'ESBFourPiOn3', 'Extended').setExtended( 4.1887902047863909846);
5268: 'ESBTwoToPower63', 'Extended').setExtended( 9223372036854775808.0);
5269: 'ESBOneRadian', 'Extended').setExtended( 57.295779513082320877);
5270: 'ESBOneDegree', 'Extended').setExtended( 1.7453292519943295769E-2);
5271: 'ESBOneMinute', 'Extended').setExtended( 2.9088820866572159615E-4);
5272: 'ESBOneSecond', 'Extended').setExtended( 4.8481368110953599359E-6);
5273: 'ESBGamma', 'Extended').setExtended( 0.57721566490153286061);
5274: 'ESBLnRt2Pi', 'Extended').setExtended( 9.189385332046727E-1);
5275: //LongWord', 'Cardinal
5276: TBitList', 'Word
5277: Function UMul( const Num1, Num2 : LongWord) : LongWord
5278: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5279: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5280: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5281: Function SameFloat( const X1, X2 : Extended) : Boolean
5282: Function FloatIsZero( const X : Extended) : Boolean
5283: Function FloatIsPositive( const X : Extended) : Boolean
5284: Function FloatIsNegative( const X : Extended) : Boolean
5285: Procedure IncLim( var B : Byte; const Limit : Byte)
5286: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5287: Procedure IncLimW( var B : Word; const Limit : Word)
5288: Procedure IncLimI( var B : Integer; const Limit : Integer)
5289: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5290: Procedure DecLim( var B : Byte; const Limit : Byte)
5291: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5292: Procedure DecLimW( var B : Word; const Limit : Word)
5293: Procedure DecLimI( var B : Integer; const Limit : Integer)
5294: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5295: Function MaxB( const B1, B2 : Byte) : Byte
5296: Function MinB( const B1, B2 : Byte) : Byte
5297: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5298: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5299: Function MaxW( const B1, B2 : Word) : Word
5300: Function MinW( const B1, B2 : Word) : Word
5301: Function esbMaxI( const B1, B2 : Integer) : Integer
5302: Function esbMinI( const B1, B2 : Integer) : Integer
5303: Function MaxL( const B1, B2 : LongInt) : LongInt
5304: Function MinL( const B1, B2 : LongInt) : LongInt
5305: Procedure SwapB( var B1, B2 : Byte)
5306: Procedure SwapSI( var B1, B2 : ShortInt)
5307: Procedure SwapW( var B1, B2 : Word)
5308: Procedure SwapI( var B1, B2 : SmallInt)
5309: Procedure SwapL( var B1, B2 : LongInt)
5310: Procedure SwapI32( var B1, B2 : Integer)
5311: Procedure SwapC( var B1, B2 : LongWord)
5312: Procedure SwapInt64( var X, Y : Int64)
5313: Function esbSign( const B : LongInt) : ShortInt
5314: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5315: Function Min4Word( const X1, X2, X3, X4 : Word) : Word

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5316: Function Max3Word( const X1, X2, X3 : Word) : Word
5317: Function Min3Word( const X1, X2, X3 : Word) : Word
5318: Function MaxBArray( const B : array of Byte) : Byte
5319: Function MaxWArray( const B : array of Word) : Word
5320: Function MaxSIArry( const B : array of ShortInt) : ShortInt
5321: Function MaxIArry( const B : array of Integer) : Integer
5322: Function MaxLArry( const B : array of LongInt) : LongInt
5323: Function MinBArray( const B : array of Byte) : Byte
5324: Function MinWArray( const B : array of Word) : Word
5325: Function MinSIArry( const B : array of ShortInt) : ShortInt
5326: Function MinIArry( const B : array of Integer) : Integer
5327: Function MinLArry( const B : array of LongInt) : LongInt
5328: Function SumBArray( const B : array of Byte) : Byte
5329: Function SumBArray2( const B : array of Byte) : Word
5330: Function SumSIArry( const B : array of Shortint) : ShortInt
5331: Function SumSIArry2( const B : array of ShortInt) : Integer
5332: Function SumWArray( const B : array of Word) : Word
5333: Function SumWArray2( const B : array of Word) : LongInt
5334: Function SumIArry( const B : array of Integer) : Integer
5335: Function SumLArry( const B : array of LongInt) : LongInt
5336: Function SumLWArray( const B : array of LongWord) : LongWord
5337: Function ESBDigits( const X : LongWord) : Byte
5338: Function BitsHighest( const X : LongWord) : Integer
5339: Function ESBbitsNeeded( const X : LongWord) : Integer
5340: Function esbGCD( const X, Y : LongWord) : LongWord
5341: Function esbLCM( const X, Y : LongInt) : Int64
5342: //Function esbLCM( const X, Y : LongInt) : LongInt
5343: Function RelativePrime( const X, Y : LongWord) : Boolean
5344: Function Get87ControlWord : TBitList
5345: Procedure Set87ControlWord( const CWord : TBitList)
5346: Procedure SwapExt( var X, Y : Extended)
5347: Procedure SwapDbl( var X, Y : Double)
5348: Procedure SwapSing( var X, Y : Single)
5349: Function esbSgn( const X : Extended) : ShortInt
5350: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5351: Function ExtMod( const X, Y : Extended) : Extended
5352: Function ExtRem( const X, Y : Extended) : Extended
5353: Function CompMOD( const X, Y : Comp) : Comp
5354: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5355: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5356: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5357: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5358: Function MaxExt( const X, Y : Extended) : Extended
5359: Function MinExt( const X, Y : Extended) : Extended
5360: Function MaxEArray( const B : array of Extended) : Extended
5361: Function MinEArray( const B : array of Extended) : Extended
5362: Function MaxSArray( const B : array of Single) : Single
5363: Function MinSArray( const B : array of Single) : Single
5364: Function MaxCArray( const B : array of Comp) : Comp
5365: Function MinCArray( const B : array of Comp) : Comp
5366: Function SumSArray( const B : array of Single) : Single
5367: Function SumEArray( const B : array of Extended) : Extended
5368: Function SumSqEArray( const B : array of Extended) : Extended
5369: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5370: Function SumXYEArray( const X, Y : array of Extended) : Extended
5371: Function SumCArray( const B : array of Comp) : Comp
5372: Function FactorialX( A : LongWord) : Extended
5373: Function PermutationX( N, R : LongWord) : Extended
5374: Function esbBinomialCoeff( N, R : LongWord) : Extended
5375: Function IsPositiveEArray( const X : array of Extended) : Boolean
5376: Function esbGeometricMean( const X : array of Extended) : Extended
5377: Function esbHarmonicMean( const X : array of Extended) : Extended
5378: Function ESBMean( const X : array of Extended) : Extended
5379: Function esbSampleVariance( const X : array of Extended) : Extended
5380: Function esbPopulationVariance( const X : array of Extended) : Extended
5381: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5382: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5383: Function GetMedian( const SortedX : array of Extended) : Extended
5384: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5385: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5386: Function ESBMagnitude( const X : Extended) : Integer
5387: Function ESBTan( Angle : Extended) : Extended
5388: Function ESBCot( Angle : Extended) : Extended
5389: Function ESBCossec( const Angle : Extended) : Extended
5390: Function ESBSec( const Angle : Extended) : Extended
5391: Function ESBArcTan( X, Y : Extended) : Extended
5392: Procedure ESBSinCos( Angle : Extended; var SinX, CosX : Extended)
5393: Function ESBArcCos( const X : Extended) : Extended
5394: Function ESBArcSin( const X : Extended) : Extended
5395: Function ESBArcSec( const X : Extended) : Extended
5396: Function ESBArcCosec( const X : Extended) : Extended
5397: Function ESBLog10( const X : Extended) : Extended
5398: Function ESBLog2( const X : Extended) : Extended
5399: Function ESBLogBase( const X, Base : Extended) : Extended
5400: Function Pow2( const X : Extended) : Extended
5401: Function IntPow( const Base : Extended; const Exponent : LongWord) : Extended
5402: Function ESBIntPower( const X : Extended; const N : LongInt) : Extended
5403: Function XtoY( const X, Y : Extended) : Extended
5404: Function esbTenToY( const Y : Extended) : Extended

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5405: Function esbTwoToY( const Y : Extended ) : Extended
5406: Function LogXtoBaseY( const X, Y : Extended ) : Extended
5407: Function esbISqrt( const I : LongWord ) : Longword
5408: Function ILog2( const I : LongWord ) : LongWord
5409: Function IGreatestPowerOf2( const N : LongWord ) : LongWord
5410: Function ESBArCosh( X : Extended ) : Extended
5411: Function ESBArSinh( X : Extended ) : Extended
5412: Function ESBArTanh( X : Extended ) : Extended
5413: Function ESBCCosh( X : Extended ) : Extended
5414: Function ESBCSinh( X : Extended ) : Extended
5415: Function ESBCTanh( X : Extended ) : Extended
5416: Function InverseGamma( const X : Extended ) : Extended
5417: Function esbGamma( const X : Extended ) : Extended
5418: Function esbLnGamma( const X : Extended ) : Extended
5419: Function esbBeta( const X, Y : Extended ) : Extended
5420: Function IncompleteBeta( X : Extended; P, Q : Extended ) : Extended
5421: end;
5422:
5423: ***** Integer Huge Cardinal Utils*****
5424: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean ) : uint64
5425: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean ) : uint32
5426: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean ) : uint64
5427: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean ) : uint32
5428: Function BitCount_8( Value : byte ) : integer
5429: Function BitCount_16( Value : uint16 ) : integer
5430: Function BitCount_32( Value : uint32 ) : integer
5431: Function BitCount_64( Value : uint64 ) : integer
5432: Function CountSetBits_64( Value : uint64 ) : integer TPrimalityTestNoticeProc',
5433: Procedure ( CountPrimalityTests : integer )
5434: Function gcd( a, b : THugeCardinal ) : THugeCardinal
5435: Function lcm( a, b : THugeCardinal ) : THugeCardinal
5436: Function isCoPrime( a, b : THugeCardinal ) : boolean
5437: Function isProbablyPrime(p: THugeCardinal;OnProgress: TProgress; var wasAborted: boolean): boolean
5438: Function hasSmallFactor( p : THugeCardinal ) : boolean
5439: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
      TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
      NumbersTested: integer ) : boolean
5440: Function Inverse( Prime, Modulus : THugeCardinal ) : THugeCardinal
5441: Const ('StandardExponent','LongInt'( 65537 );
5442: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
      Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
      Numbers
5443: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal ) : boolean'
5444:
5445: procedure SIRegister_xrtl_math_Integer(CL: TPSPascalCompiler);
5446: begin
5447:   AddTypeS('TXRTLInteger', 'array of Integer
5448:   AddClassN(FindClass('TOBJECT'), 'EXRTLMATHException
5449:   (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument
5450:   AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero
5451:   AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument
5452:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix
5453:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit
5454:   AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument
5455:   'BitsPerByte', 'LongInt'( 8 );
5456:   BitsPerDigit','LongInt'( 32 );
5457:   SignBitMask','LongWord( $80000000 );
5458:   Function XRTLAdjustBits( const ABits : Integer ) : Integer
5459:   Function XRTLLength( const AInteger : TXRTLInteger ) : Integer
5460:   Function XRTLDataBits( const AInteger : TXRTLInteger ) : Integer
5461:   Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer )
5462:   Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer )
5463:   Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer )
5464:   Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Integer
5465:   Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Boolean
5466:   Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int;var AResult:TXRTLInteger):Int;
5467:   Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5468:   Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5469:   Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5470:   Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5471:   Procedure XRTLOR( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5472:   Procedure XRTLAND( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5473:   Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5474:   Function XRTLSign( const AInteger : TXRTLInteger ) : Integer
5475:   Procedure XRTLZero( var AInteger : TXRTLInteger )
5476:   Procedure XRTLOne( var AInteger : TXRTLInteger )
5477:   Procedure XRTLMOne( var AInteger : TXRTLInteger )
5478:   Procedure XRTLTTwo( var AInteger : TXRTLInteger )
5479:   Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5480:   Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5481:   Procedure XRTLFullSum( const A, B, C : Integer; var Sum, Carry : Integer )
5482:   Function XRTLAddl( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5483:   Function XRTLAddl( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5484:   Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5485:   Function XRTLSubl( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5486:   Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger ) : Integer;
5487:   Function XRTLComparel( const AInteger1 : TXRTLInteger; const AInteger2 : Int64 ) : Integer;
5488:   Function XRTLUMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5489:   Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer

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5490: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5491: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger )
5492: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5493: Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5494: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5495: Procedure XRTLRootApprox( const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger )
5496: Procedure XRTLURootApprox( const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger );
5497: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5498: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult: TXRTLInteger )
5499: Procedure XRTLSLBL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5500: Procedure XRTLSABL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5501: Procedure XRTLRCBL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5502: Procedure XRTLSDL( const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger )
5503: Procedure XRTLSADL( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult:TXRTLInteger )
5504: Procedure XRTLRCDL( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult:TXRTLInteger )
5505: Procedure XRTLSLBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5506: Procedure XRTLSABR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5507: Procedure XRTLRCBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger )
5508: Procedure XRTLSDLR( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult:TXRTLInteger )
5509: Procedure XRTLSADR( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger )
5510: Procedure XRTLRCDR( const AInteger : TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger )
5511: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer ) : string
5512: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer ) : string
5513: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer ) : string
5514: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger )
5515: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger )
5516: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer )
5517: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5518: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger );
5519: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger );
5520: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger )
5521: Procedure XRTLSplit( const AInteger : TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer )
5522: Function XRTLGetMSBitIndex( const AInteger : TXRTLInteger ) : Integer
5523: Procedure XRTLMInMax( const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger )
5524: Procedure XRTLMIn( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5525: Procedure XRTLMInl( const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger );
5526: Procedure XRTLMMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5527: Procedure XRTLMMax1( const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger );
5528: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5529: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger )
5530: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5531: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5532: end;
5533:
5534: procedure SIRegister_JvXPCoreUtils(CL: TPSCompiler);
5535: begin
5536:   Function JvXPMethodsEqual( const Method1, Method2 : TMethod ) : Boolean
5537:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer )
5538:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap );
5539:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect )
5540:   Procedure JvXPDrawBoundLines(const ACanvas:TCanvas;const BoundLns:TJvXPBoundLns;const
      ACColor:TColor;Rect:TRect;
5541:   Procedure JvXPConvertToGray2( Bitmap : TBitmap )
5542:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer )
5543:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool;
5544:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor )
5545:   Procedure JvXPSetDrawFlags(const AAlignment:TAlignment;const AWordWrap: Boolean; var Flags : Integer )
5546:   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 )
5547: end;
5548:
5549:
5550: procedure SIRegister_uwinstr(CL: TPSCompiler);
5551: begin
5552:   Function StrDec( S : String ) : String
5553:   Function uIsNumeric( var S : String; var X : Float ) : Boolean
5554:   Function ReadNumFromEdit( Edit : TEdit ) : Float
5555:   Procedure WriteNumToFile( var F : Text; X : Float )
5556: end;
5557:
5558: procedure SIRegister_utexplot(CL: TPSCompiler);
5559: begin
5560:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean ) : Boolean
5561:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
5562:   Procedure TeX_LeaveGraphics( Footer : Boolean )
5563:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
5564:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
5565:   Procedure TeX_SetGraphTitle( Title : String )
5566:   Procedure TeX_SetOxTitle( Title : String )
5567:   Procedure TeX_SetOyTitle( Title : String )
5568:   Procedure TeX_PlotOxAxis
5569:   Procedure TeX_PlotOyAxis

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5570: Procedure TeX_PlotGrid( Grid : TGrid)
5571: Procedure TeX_WriteGraphTitle
5572: Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5573: Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5574: Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5575: Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5576: Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5577: Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5578: Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5579: Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5580: Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5581: Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5582: Function Xcm( X : Float) : Float
5583: Function Ycm( Y : Float) : Float
5584: end;
5585:
5586: *-----*)
5587: procedure SIRegister_VarRecUtils(CL: TPSPPascalCompiler);
5588: begin
5589:   TConstArray', 'array of TVarRec
5590:   Function CopyVarRec( const Item : TVarRec) : TVarRec
5591:   Function CreateConstArray( const Elements : array of const) : TConstArray
5592:   Procedure FinalizeVarRec( var Item : TVarRec)
5593:   Procedure FinalizeConstArray( var Arr : TConstArray)
5594: end;
5595:
5596: procedure SIRegister_StStrS(CL: TPSPPascalCompiler);
5597: begin
5598:   Function HexBS( B : Byte) : ShortString
5599:   Function HexWS( W : Word) : ShortString
5600:   Function HexLS( L : LongInt) : ShortString
5601:   Function HexPtrS( P : Pointer) : ShortString
5602:   Function BinaryBS( B : Byte) : ShortString
5603:   Function BinaryWS( W : Word) : ShortString
5604:   Function BinaryLS( L : LongInt) : ShortString
5605:   Function OctalBS( B : Byte) : ShortString
5606:   Function OctalWS( W : Word) : ShortString
5607:   Function OctalLS( L : LongInt) : ShortString
5608:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5609:   Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5610:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5611:   Function Str2Reals( const S : ShortString; var R : Double) : Boolean
5612:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5613:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5614:   Function Long2StrS( L : LongInt) : ShortString
5615:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5616:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5617:   Function ValPrepS( const S : ShortString) : ShortString
5618:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5619:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5620:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5621:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5622:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5623:   Function TrimLeadS( const S : ShortString) : ShortString
5624:   Function TrimTrails( const S : ShortString) : ShortString
5625:   Function TrimS( const S : ShortString) : ShortString
5626:   Function TrimSpacesS( const S : ShortString) : ShortString
5627:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5628:   Function CenterS( const S : ShortString; Len : Cardinal) : ShortString
5629:   Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5630:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5631:   Function ScrambleS( const S, Key : ShortString) : ShortString
5632:   Function SubstituteS( const S, FromStr,ToStr : ShortString) : ShortString
5633:   Function Filters( const S, Filters : ShortString) : ShortString
5634:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5635:   Function CharCounts( const S : ShortString; C : AnsiChar) : Byte
5636:   Function WordCounts( const S, WordDelims : ShortString) : Cardinal
5637:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5638:   Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5639:   Function AsciiCountsS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5640:   Function AsciiPositionSN(Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5641:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5642:   Procedure WordWrapS(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5643:   Function CompStringS( const S1, S2 : ShortString) : Integer
5644:   Function CompUCStringS( const S1, S2 : ShortString) : Integer
5645:   Function SoundexS( const S : ShortString) : ShortString
5646:   Function MakeLetterSetS( const S : ShortString) : Longint
5647:   Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable)
5648:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5649:   Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5650:   Function DefaultExtensions( const Name, Ext : ShortString) : ShortString
5651:   Function ForceExtensions( const Name, Ext : ShortString) : ShortString
5652:   Function JustFilenameS( const PathName : ShortString) : ShortString
5653:   Function JustNameS( const PathName : ShortString) : ShortString
5654:   Function JustExtensionS( const Name : ShortString) : ShortString
5655:   Function JustPathnameS( const PathName : ShortString) : ShortString

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

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5734: Procedure ExchangeStructs( var I, J, Size : Cardinal)
5735: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word)
5736: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal)
5737: Function AddWordToPtr( P : __Pointer; W : Word) : __Pointer
5738: //*****unit uPSI_STFIN;*****
5739: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis): Extended
5740: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
      Par:Extended;Frequency:TStFrequency; Basis: TStBasis) : Extended
5741: Function BondDuration( Settlement,Maturity:TStDate;Rate,
      Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended;
5742: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis):
      Extended
5743: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
      Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5744: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
      Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5745: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis ) : LongInt
5746: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5747: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis): Extended;
5748: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5749: Function DollarToDecimalText( DecDollar : Extended) : string
5750: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5751: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5752: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended
5753: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
      PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5754: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5755: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5756: Function InterestRateS(NPeriods:Int;Pmt,PV,
      FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5757: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5758: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5759: Function IsCardValid( const S : string ) : Boolean
5760: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
      Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5761: Function ModifiedIRR( const Values : array of Double; FinanceRate,ReinvestRate: Extended ) : Extended
5762: Function ModifiedIRR16( const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended ) : Extended
5763: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5764: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5765: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency ) : Extended
5766: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5767: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5768: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
      : TStPaymentTime ) : Extended
5769: Function Periods( Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5770: Function PresentValueS( Rate: Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TStFrequency;
      Timing: TStPaymentTime ) : Extended
5771: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5772: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5773: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5774: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5775: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5776: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
      Factor : Extended; NoSwitch : boolean ) : Extended
5777: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5778: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
      Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5779: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5780:
5781: //*****unit uPSI_StAstroP;
5782: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5783: //*****unit uPSI_STStat; Statistic Package of SysTools*****
5784: Function AveDev( const Data : array of Double ) : Double
5785: Function AveDev16( const Data, NData : Integer ) : Double
5786: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5787: Function Correlation( const Data1, Data2 : array of Double ) : Double
5788: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5789: Function Covariance( const Data1, Data2 : array of Double ) : Double
5790: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5791: Function DevSq( const Data : array of Double ) : Double
5792: Function DevSq16( const Data, NData : Integer ) : Double
5793: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5794: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5795: Function GeometricMeanS( const Data : array of Double ) : Double
5796: Function GeometricMean16( const Data, NData : Integer ) : Double
5797: Function HarmonicMeanS( const Data : array of Double ) : Double
5798: Function HarmonicMean16( const Data, NData : Integer ) : Double
5799: Function Largest( const Data : array of Double; K : Integer ) : Double
5800: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5801: Function MedianS( const Data : array of Double ) : Double
5802: Function Median16( const Data, NData : Integer ) : Double
5803: Function Mode( const Data : array of Double ) : Double
5804: Function Mode16( const Data, NData : Integer ) : Double
5805: Function Percentile( const Data : array of Double; K : Double ) : Double
5806: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5807: Function PercentRank( const Data : array of Double; X : Double ) : Double
5808: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5809: Function Permutations( Number, NumberChosen : Integer ) : Extended
5810: Function Combinations( Number, NumberChosen : Integer ) : Extended

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5811: Function Factorials( N : Integer ) : Extended
5812: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5813: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5814: Function Smallest( const Data : array of Double; K : Integer ) : Double
5815: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5816: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5817: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5818: AddTypeS('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB' + '1 : Double; R2 : Double; sigma :Double; SSr: double; SSe: Double; F0 : Double; df : Integer;end
5819: Procedure LinEst( const KnownY:array of Double;const KnownX:array of Double;var
5820: LF:TStLinEst;ErrorStats:Bool;
5821: Procedure LogEst( const KnownY:array of Double;const KnownX:array of Double;var
5822: LF:TStLinEst;ErrorStats:Bool;
5823: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5824: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double
5825: Function Intercept( const KnownY : array of Double; const KnownX : array of Double ) : Double
5826: Function RSquared( const KnownY : array of Double; const KnownX : array of Double ) : Double
5827: Function Slope( const KnownY : array of Double; const KnownX : array of Double ) : Double
5828: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double ) : Double
5829: Function BetaDist( X, Alpha, Beta, A, B : Single ) : Single
5830: Function BinomDist( NumberS, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean ) : Single
5831: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single ) : Integer
5832: Function ChiDist( X : Single; DegreesFreedom : Integer ) : Single
5833: Function ChiInv( Probability : Single; DegreesFreedom : Integer ) : Single
5834: Function ExponDist( X, Lambda : Single; Cumulative : Boolean ) : Single
5835: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5836: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5837: Function LogNormDist( X, Mean, StandardDev : Single ) : Single
5838: Function LogInv( Probability, Mean, StandardDev : Single ) : Single
5839: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean ) : Single
5840: Function NormInv( Probability, Mean, StandardDev : Single ) : Single
5841: Function NormSDist( Z : Single ) : Single
5842: Function NormSInv( Probability : Single ) : Single
5843: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean ) : Single
5844: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean ) : Single
5845: Function TInv( Probability : Single; DegreesFreedom : Integer ) : Single
5846: Function Erfc( X : Single ) : Single
5847: Function GammaLn( X : Single ) : Single
5848: Function LargestSort( const Data : array of Double; K : Integer ) : Double
5849: Function SmallestSort( const Data : array of double; K : Integer ) : Double
5850:
5851: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5852: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt ) : LongInt
5853: Function MinimumHeapToUse( RecLen : Cardinal ) : LongInt
5854: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt ) : TMergeInfo
5855: Function DefaultMergeName( MergeNum : Integer ) : string
5856: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc )
5857:
5858: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5859: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double ) : TStTime
5860: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double ) : TStRiseSetRec
5861: Function SunPos( UT : TStDateTimeRec ) : TStPosRec
5862: Function SunPosPrim( UT : TStDateTimeRec ) : TStSunXYZRec
5863: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5864: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight ):TStRiseSetRec
5865: Function LunarPhase( UT : TStDateTimeRec ) : Double
5866: Function MoonPos( UT : TStDateTimeRec ) : TStMoonPosRec
5867: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5868: Function FirstQuarter( D : TStDate ) : TStLunarRecord
5869: Function FullMoon( D : TStDate ) : TStLunarRecord
5870: Function LastQuarter( D : TStDate ) : TStLunarRecord
5871: Function NewMoon( D : TStDate ) : TStLunarRecord
5872: Function NextFirstQuarter( D : TStDate ) : TStDateTimeRec
5873: Function NextFullMoon( D : TStDate ) : TStDateTimeRec
5874: Function NextLastQuarter( D : TStDate ) : TStDateTimeRec
5875: Function NextNewMoon( D : TStDate ) : TStDateTimeRec
5876: Function PrevFirstQuarter( D : TStDate ) : TStDateTimeRec
5877: Function PrevFullMoon( D : TStDate ) : TStDateTimeRec
5878: Function PrevLastQuarter( D : TStDate ) : TStDateTimeRec
5879: Function PrevNewMoon( D : TStDate ) : TStDateTimeRec
5880: Function SiderealTime( UT : TStDateTimeRec ) : Double
5881: Function Solstice( Y, Epoch : Integer; Summer : Boolean ) : TStDateTimeRec
5882: Function Equinox( Y, Epoch : Integer; Vernal : Boolean ) : TStDateTimeRec
5883: Function SEaster( Y, Epoch : Integer ) : TStDate
5884: Function DateToAJD( D : TDateTime ) : Double
5885: Function HoursMin( RA : Double ) : shortstring
5886: Function DegsMin( DC : Double ) : ShortString
5887: Function AJDToDate( D : Double ) : TDateTime
5888:
5889: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5890: Function CurrentDate : TStDate
5891: Function StValidDate( Day, Month, Year, Epoch : Integer ) : Boolean
5892: Function DMYtoStDate( Day, Month, Year, Epoch : Integer ) : TStDate
5893: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer )
5894: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer ) : TStDate
5895: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer ) : TStDate
5896: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer )
5897: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType ) : TStDate

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

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

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6076: /*153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6077: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection);
6078: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection);
6079: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection);
6080: Function InitializeCriticalSectionAndSpinCount(var
6081:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6082: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6083: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL;
6084: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection );
6085: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL;
6086: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL;
6087: Function SuspendThread( hThread : THandle ) : DWORD;
6088: Function ResumeThread( hThread : THandle ) : DWORD;
6089: Function GetCurrentThread : THandle;
6090: Procedure ExitThread( dwExitCode : DWORD );
6091: Function TerminateThread( hThread : THandle; dwExitCode : DWORD ) : BOOL;
6092: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL;
6093: Procedure EndThread(ExitCode: Integer);
6094: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD;
6095: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC;
6096: Procedure FreeProcInstance( Proc : FARPROC );
6097: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD );
6098: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL;
6099: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6100: Procedure ParallelJob1( ATarGet : Pointer; AParam : Pointer; ASafeSection : boolean );
6101: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarGet:Ptr;AParam:Pointer;ASafeSection:bool);
6102: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarGet:Pointer;AParam:Pointer;ASafeSection:bool );
6103: Function CreateParallelJob(ASelf:TObject;ATarGet:Pointer;AParam:Ptr;ASafeSection:bool):TParallelJob;
6104: Function CreateParallelJob(ATarGet:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6105: Function CurrentParallelJobInfo : TParallelJobInfo;
6106: Function ObtainParallelJobInfo : TParallelJobInfo;
6107: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo );
6108: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD ) : BOOL';
6109: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle ) : BOOL';
6110: Function DeviceIoControl( hDevice : THandle; dwIoControlCode : DWORD; lpInBuffer : TObject; nInBufferSize : DWORD; lpOutBuffer: TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped : TOverlapped ) : BOOL';
6111: Function SetFileTime( hFile : THandle; lpCreationTime, lpLastAccessTime, lpLastWriteTime : TFileTime ) : BOOL';
6112: Function DuplicateHandle( hSourceProcessHandle, hSourceHandle, hTargetProcessHandle : THandle; lpTargetHandle : THandle; dwDesiredAccess : DWORD; bInheritHandle : BOOL; dwOptions : DWORD ) : BOOL';
6113: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD ) : BOOL';
6114: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD ) : BOOL';
6115:
6116: *****unit uPSI_JclMime;
6117: Function MimeEncodeString( const S : AnsiString ) : AnsiString;
6118: Function MimeDecodeString( const S : AnsiString ) : AnsiString;
6119: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream );
6120: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream );
6121: Function MimeEncodedSize( const I : Cardinal ) : Cardinal;
6122: Function MimeDecodedSize( const I : Cardinal ) : Cardinal;
6123: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer );
6124: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6125: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : Cardinal;
6126: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):Cardinal;
6127:
6128: *****unit uPSI_JclPrint;
6129: Procedure DirectPrint( const Printer, Data : string );
6130: Procedure SetPrinterPixelsPerInch;
6131: Function GetPrinterResolution : TPoint;
6132: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer;
6133: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect );
6134:
6135:
6136: //*****unit uPSI_ShLwApi;*****
6137: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar;
6138: Function StrChrI( lpStart : PChar; wMatch : WORD ) : PChar;
6139: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer;
6140: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer;
6141: Function StrCSpn( lpStr_, lpSet : PChar ) : Integer;
6142: Function StrCSpnI( lpStr1, lpSet : PChar ) : Integer;
6143: Function StrDup( lpSrch : PChar ) : PChar;
6144: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar;
6145: Function StrFormatKBSize( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar;
6146: Function StrFromTimeInterval(pszOut : PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer;
6147: Function StrIsInt1Equal( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL;
6148: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax: Integer ) : PChar;
6149: Function StrPBrk( psz, pszSet : PChar ) : PChar;
6150: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar;
6151: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar;
6152: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar;
6153: Function StrSpn( psz, pszSet : PChar ) : Integer;
6154: Function StrStr( lpFirst, lpSrch : PChar ) : PChar;
6155: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar;
6156: Function StrToInt( lpSrch : PChar ) : Integer;
6157: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL;

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6158: Function StrTrim( psz : PChar; pszTrimChars : PChar) : BOOL
6159: Function ChrCmpI( w1, w2 : WORD) : BOOL
6160: Function ChrCmpIA( w1, w2 : WORD) : BOOL
6161: Function ChrCmpIW( w1, w2 : WORD) : BOOL
6162: Function StrIntEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6163: Function StrIntEqNI( s1, s2 : PChar; nChar : Integer) : BOOL
6164: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer) : PChar
6165: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6166: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6167: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6168: SZ_CONTENTTYPE_HTMLA', 'String 'text/html
6169: SZ_CONTENTTYPE_HTMLW', 'String 'text/html
6170: SZ_CONTENTTYPE_HTML', 'string SZ_CONTENTTYPE_HTMLA';
6171: SZ_CONTENTTYPE_CDFA', 'String 'application/x-cdf
6172: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf
6173: SZ_CONTENTTYPE_CDF', 'string SZ_CONTENTTYPE_CDFA)';
6174: Function PathIsHTMLFile( pszPath : PChar) : BOOL
6175: STIF_DEFAULT', 'LongWord( $00000000);
6176: STIF_SUPPORT_HEX', 'LongWord( $00000001);
6177: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6178: Function StrNCpy( psz1, psz2 : PChar; cchMax : Integer) : PChar
6179: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6180: Function PathAddBackslash( pszPath : PChar) : PChar
6181: Function PathAddExtension( pszPath : PChar; pszExt : PChar) : BOOL
6182: Function PathAppend( pszPath : PChar; pMore : PChar) : BOOL
6183: Function PathBuildRoot( szRoot : PChar; iDrive : Integer) : PChar
6184: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar) : BOOL
6185: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar) : PChar
6186: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT) : BOOL
6187: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD) : BOOL
6188: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar) : Integer
6189: Function PathFileExists( pszPath : PChar) : BOOL
6190: Function PathFindExtension( pszPath : PChar) : PChar
6191: Function PathFindFileName( pszPath : PChar) : PChar
6192: Function PathFindNextComponent( pszPath : PChar) : PChar
6193: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar) : BOOL
6194: Function PathGetArgs( pszPath : PChar) : PChar
6195: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6196: Function PathIsLFNfileSpec( lpName : PChar) : BOOL
6197: Function PathGetCharType( ch : Char) : UINT
6198: GCT_INVALID', 'LongWord( $0000);
6199: GCT_LFNCHAR', 'LongWord( $0001);
6200: GCT_SHORTCHAR', 'LongWord( $0002);
6201: GCT_WILD', 'LongWord( $0004);
6202: GCT_SEPARATOR', 'LongWord( $0008);
6203: Function PathGetDriveNumber( pszPath : PChar) : Integer
6204: Function PathIsDirectory( pszPath : PChar) : BOOL
6205: Function PathIsDirectoryEmpty( pszPath : PChar) : BOOL
6206: Function PathIsFileSpec( pszPath : PChar) : BOOL
6207: Function PathIsPrefix( pszPrefix, pszPath : PChar) : BOOL
6208: Function PathIsRelative( pszPath : PChar) : BOOL
6209: Function PathIsRoot( pszPath : PChar) : BOOL
6210: Function PathIsSameRoot( pszPath1, pszPath2 : PChar) : BOOL
6211: Function PathIsUNC( pszPath : PChar) : BOOL
6212: Function PathIsNetworkPath( pszPath : PChar) : BOOL
6213: Function PathIsUNCServer( pszPath : PChar) : BOOL
6214: Function PathIsUNCServerShare( pszPath : PChar) : BOOL
6215: Function PathIsContentType( pszPath, pszContentType : PChar) : BOOL
6216: Function PathIsURL( pszPath : PChar) : BOOL
6217: Function PathMakePretty( pszPath : PChar) : BOOL
6218: Function PathMatchSpec( pszFile, pszSpec : PChar) : BOOL
6219: Function PathParseIconLocation( pszIconFile : PChar) : Integer
6220: Procedure PathQuoteSpaces( lpsz : PChar)
6221: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6222: Procedure PathRemoveArgs( pszPath : PChar)
6223: Function PathRemoveBackslash( pszPath : PChar) : PChar
6224: Procedure PathRemoveBlanks( pszPath : PChar)
6225: Procedure PathRemoveExtension( pszPath : PChar)
6226: Function PathRemoveFileSpec( pszPath : PChar) : BOOL
6227: Function PathRenameExtension( pszPath : PChar; pszExt : PChar) : BOOL
6228: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT) : BOOL
6229: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar)
6230: Function PathSkipRoot( pszPath : PChar) : PChar
6231: Procedure PathStripPath( pszPath : PChar)
6232: Function PathStripToRoot( pszPath : PChar) : BOOL
6233: Procedure PathUnquoteSpaces( lpsz : PChar)
6234: Function PathMakeSystemFolder( pszPath : PChar) : BOOL
6235: Function PathUnmakeSystemFolder( pszPath : PChar) : BOOL
6236: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD) : BOOL
6237: Procedure PathUndecorate( pszPath : PChar)
6238: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT) : BOOL
6239: URL_SCHEME_INVALID', 'LongInt'( - 1);
6240: URL_SCHEME_UNKNOWN', 'LongInt'( 0);
6241: URL_SCHEME_FTP', 'LongInt'( 1);
6242: URL_SCHEME_HTTP', 'LongInt'( 2);
6243: URL_SCHEME_GOPHER', 'LongInt'( 3);
6244: URL_SCHEME_MAILTO', 'LongInt'( 4);
6245: URL_SCHEME_NEWS', 'LongInt'( 5);
6246: URL_SCHEME_NNTP', 'LongInt'( 6);

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

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6335: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6336: TSHRegDelFlags', 'DWORD
6337: TSHRegEnumFlags', 'DWORD
6338: HUSKEY', 'THandle
6339: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6340: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6341: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6342: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6343: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6344: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6345: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6346: ASSOCF_VERIFY', 'LongWord( $00000040);
6347: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6348: ASSOCF_NOFIXUPS', 'LongWord( $00000100);
6349: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6350: ASSOCF', 'DWORD
6351: ASSOCSTR_COMMAND', 'LongInt'( 1);
6352: ASSOCSTR_EXECUTABLE', 'LongInt'( 2);
6353: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3);
6354: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4);
6355: ASSOCSTR_NOOPEN', 'LongInt'( 5);
6356: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6);
6357: ASSOCSTR_DDECOMMAND', 'LongInt'( 7);
6358: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8);
6359: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9);
6360: ASSOCSTR_DDETOPIC', 'LongInt'( 10);
6361: ASSOCSTR_INFOTIP', 'LongInt'( 11);
6362: ASSOCSTR_MAX', 'LongInt'( 12);
6363: ASSOCSTR', 'DWORD
6364: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1);
6365: ASSOCKEY_APP', 'LongInt'( 2);
6366: ASSOCKEY_CLASS', 'LongInt'( 3);
6367: ASSOCKEY_BASECLASS', 'LongInt'( 4);
6368: ASSOCKEY_MAX', 'LongInt'( 5);
6369: ASSOCKEY', 'DWORD
6370: ASSOCDATA_MSIDESCRIPTOR', 'LongInt'( 1);
6371: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6372: ASSOCDATA_QUERYCLASSTOOL', 'LongInt'( 3);
6373: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6374: ASSOCDATA_MAX', 'LongInt'( 5);
6375: ASSOCDATA', 'DWORD
6376: ASSOCENUM_NONE', 'LongInt'( 0);
6377: ASSOCENUM', 'DWORD
6378: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6379: SHACF_DEFAULT $00000000;
6380: SHACF_FILESYSTEM', 'LongWord( $00000001);
6381: SHACF_URLHISTORY', 'LongWord( $00000002);
6382: SHACF_URLMRU', 'LongWord( $00000004);
6383: SHACF_USETAB', 'LongWord( $00000008);
6384: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6385: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6386: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6387: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6388: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6389: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6390: Procedure SHSetThreadRef( punk : IUnknown )
6391: Procedure SHGetThreadRef( out ppunk : IUnknown )
6392: CTF_INSIST', 'LongWord( $00000001);
6393: CTF_THREAD_REF', 'LongWord( $00000002);
6394: CTF_PROCESS_REF', 'LongWord( $00000004);
6395: CTF_COINIT', 'LongWord( $00000008);
6396: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6397: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6398: Function ColorHLSToRGB( wHue, wLuminance, wSaturation : WORD ) : TColorRef
6399: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6400: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6401: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6402: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6403: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6404: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6405: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6406: Function SetRectEmpty( var lprc : TRect ) : BOOL
6407: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6408: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6409: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6410: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6411:
6412: Function InitializeFlatSB( hWnd : HWND ) : Bool
6413: Procedure UninitializeFlatSB( hWnd : HWND )
6414: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6415: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6416: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6417: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6418: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6419: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6420: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6421:
6422:
6423: // **** 204 unit uPSI_ShellAPI;

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

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6503: Function PeVerifyCheckSum( const FileName : TFileName ) : Boolean
6504: Function PeClearCheckSum( const FileName : TFileName ) : Boolean
6505: Function PeUpdateCheckSum( const FileName : TFileName ) : Boolean
6506: Function PeDoesExportFunction( const FileName:TFileName;const
  FuncName:string;Options:TJclSmartCompOptions):Bool;
6507: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var
  ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6508: Function PeIsExportFunctionForwarded( const FileName:TFileName;const
  FunctionName:string;Options:TJclSmartCompOptions):Bool
6509: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName
  : string; Options : TJclSmartCompOptions ) : Boolean
6510: Function PeDoesImportLibrary( const FileName:TFileName;const
  LibraryName:string;Recursive:Boolean):Boolean;
6511: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive :
  Boolean; FullPathName : Boolean ) : Boolean
6512: Function PeImportedFunctions( const FileName:TFileName;const FunctionsList:TStrings;const
  LibraryName:string; IncludeLibNames : Boolean )
6513: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6514: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6515: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6516: Function PeResourceKindNames( const FileN:TFileName;ResourceType:TJclPeResourceKind;const
  NamesList:TStrings):Bool
6517: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6518: Function PeBorDependedPackages( const FileName:TFileName;PackagesList:TStrings;FullPathName,
  Descript:Bool ):Bool;
6519: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6520: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6521: Function PeCreateRequiredImportList( const FileName : TFileName; RequiredImportsList: TStrings): Boolean;
6522: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6523: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6524: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6525: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) :
  PImageSectionHeader
6526: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6527: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6528: Function PeMapFindResource( const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):
  __Pointer;
6529:   SIRegister_TJclPeSectionStream(CL);
6530:   SIRegister_TJclPeMapImgHookItem(CL);
6531:   SIRegister_TJclPeMapImgHooks(CL);
6532: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var
  NtHeaders:TImageNtHeaders):Boolean
6533: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6534: Type TJclBorUmSymbolKind', '(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6535: TJclBorUmSymbolModifier', '( smQualified, smLinkProc )
6536: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6537: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6538: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6539: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6540: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description :
  TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6541: Function PeBorUnmangleName1( const Name:string;var Unmangled:string;var
  Descript:TJclBorUmDescription):TJclBorUmResult;
6542: Function PeBorUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6543: Function PeBorUnmangleName3( const Name : string ) : string;
6544: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6545: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6546:
6547:
6548: //***** SysTools uPSI_StSystem; *****
6549: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6550: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6551: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6552: //Procedure EnumerateDirectories(const
  StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6553: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
  IncludeItem:TIncludeItemFunc);
6554: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6555: Function FileMatchesMask( const FileName, FileMask : AnsiString ) : Boolean
6556: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6557: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6558: Function FlushOsBuffers( Handle : Integer ) : Boolean
6559: Function GetCurrentUser : AnsiString
6560: Function GetDiskClass( Drive : Char ) : DiskClass
6561: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
  SectorsPerCluster:Cardinal):Bool;
6562: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var
  DiskSize:Double):Bool;
6563: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
  DiskSize:Comp):Boolean;
6564: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6565: Function getDiskSpace2(const path: String; index: integer): int64;
6566: Function GetFileCreateDate( const FileName : Ansistring ) : TDateTime
6567: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime
6568: Function GetFileLastModify( const FileName : Ansistring ) : TDateTime
6569: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6570: Function GetLongPath( const APath : AnsiString ) : AnsiString
6571: Function GetMachineName : AnsiString
6572: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal

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

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6658: Function cIsNumeric( s : string ) : boolean
6659: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6660: Function AttrToStr( const Attr : TSynHighlighterAttributes ) : string
6661: Function GetfileTyp( const FileName : string ) : TUnitType
6662: Function Atoi(const aStr: string): integer
6663: Function Itoa(const aint: integer): string
6664:
6665:
6666: procedure SIRegister_cHTTPUtils(CL: TPPascalCompiler);
6667: begin
6668:   FindClass('TOBJECT'), 'EHTTP
6669:   FindClass('TOBJECT'), 'EHTTPParser
6670:   //AnsiCharSet', 'set of AnsiChar
6671:   AnsiStringArray', 'array of AnsiString
6672:   THHTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6673:   THHTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6674:   THHTTPVersion', 'record Version : THHTTPVersionEnum; Protocol : TH'
6675:     +'TPPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer;
6676:     +'CustomMinVersion : Integer; end
6677:   THHTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6678:     +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6679:     +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6680:     +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6681:     +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6682:     +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6683:     +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges,
6684:     +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince
6685:     +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6686:     +'nection, hntOrigin, hntKeepAlive )
6687:   THHTTPHeaderName', 'record Value : THHTTPHeaderNameEnum; Custom: AnsiString; end
6688:   THHTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6689:     +' AnsiString; end
6690: //THHTTPCustomHeader', '^THHTTPCustomHeader // will not work
6691: THHTTPContentLengthEnum', '( hc1tNone, hc1tByteCount )
6692: THHTTPContentLength', 'record Value : THHTTPContentLengthEnum; ByteCount:Int64; end
6693: //THHTTPContentLength', '^THHTTPContentLength // will not work
6694: THHTTPContentTypeMajor', '( hctCustom, hctText, hctImage )
6695: THHTTPContentTypeEnum', '( hctNone, hctCustomParts, hctCustomStri'
6696:   +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6697:   +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6698:   +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScipt, hctAppli'
6699:   +'cationCustom, hctAudioCustom, hctVideoCustom )
6700: THHTTPContentType', 'record Value : THHTTPContentTypeEnum; CustomM'
6701:   +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray;'
6702:   +' CustomStr : AnsiString; end
6703: THHTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )
6704: THHTTPDateField', 'record Value : THHTTPDateFieldEnum; DayOfWeek :'
6705:   +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6706:   +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6707:   +'String; DateTime : TDateTime; Custom : AnsiString; end
6708: THHTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )
6709: THHTTPTransferEncoding', 'record Value : THHTTPTransferEncodingEnu'
6710:   +'m; Custom : AnsiString; end
6711: THHTTPConnectionFieldEnum', '( hcfNone, hcfCustom, hcfClose, hcfKeepAlive )
6712: THHTTPConnectionField', 'record Value : THHTTPConnectionFieldEnum;'
6713:   +' Custom : AnsiString; end
6714: THHTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )
6715: THHTTPAgeField', 'record Value : THHTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6716: THHTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )
6717: THHTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6718:   +', hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )
6719: THHTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6720:   +', hccrfNoCache, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6721:   +'ProxyRevalidate, hccrfMaxAge, hccrfMaxAge )
6722: THHTTPCacheControlField', 'record Value : THHTTPCacheControlFieldEnum; end
6723: THHTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6724:   +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )
6725: THHTTPContentEncoding', 'record Value:THHTTPContentEncodingEnum;Custom:AnsiString; end;
6726: THHTTPContentEncodingFieldEnum', '( hcefNone, hcefList )
6727: THHTTPContentEncodingField', 'record Value : THHTTPContentEncoding'
6728:   +'FieldEnum: List : array of THHTTPContentEncoding; end
6729: THHTTPRetryAfterFieldEnum', '( hrarNone, hrarCustom, harfDate, harfSeconds )
6730: THHTTPRetryAfterField', 'record Value : THHTTPRetryAfterFieldEnum;'
6731:   +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6732: THHTTPContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )
6733: THHTTPContentRangeField', 'record Value : THHTTPContentRangeFieldE'
6734:   +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6735: THHTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )
6736: THHTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6737: THHTTPSetCookieCustomFieldArray', 'array of THHTTPSetCookieCustomField
6738: THHTTPSetCookieField', 'record Value : THHTTPSetCookieFieldEnum; D'
6739:   +'omain : AnsiString; Path : AnsiString; Expires : THHTTPDateField; MaxAge : '
6740:   +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THHTTPSetCookie'
6741:   +'CustomFieldArray; Custom : AnsiString; end
6742: //THHTTPSetCookieField', '^THHTTPSetCookieField // will not work
6743: THHTTPSetCookieFieldArray', 'array of THHTTPSetCookieField
6744: THHTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )
6745: THHTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6746: //THHTTPCookieFieldEntry', '^THHTTPCookieFieldEntry // will not work

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

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6822: Procedure BuildStrHTTPProxyConnectionField( const A : TTHTTPConnectionField; const B : TAnsiStringBuilder;
6823: const P : TTHTTPStringOptions)
6824: Procedure BuildStrHTTPCommonHeaders( const A : TTHTTPCommonHeaders; const B : TAnsiStringBuilder; const P
6825: : TTHTTPStringOptions)
6826: Procedure BuildStrHTTPFixedHeaders( const A : TTHTTPFixedHeaders; const B : TAnsiStringBuilder; const P
6827: : TTHTTPStringOptions)
6828: Procedure BuildStrHTTPCustomHeaders( const A : TTHTTPCustomHeaders; const B : TAnsiStringBuilder; const P
6829: : TTHTTPStringOptions)
6830: Procedure BuildStrHTTPSetCookieFieldValue( const A : TTHTTPSetCookieField; const B : TAnsiStringBuilder; const P
6831: : TTHTTPStringOptions)
6832: Procedure BuildStrHTTPCookieFieldValue( const A : TTHTTPCookieField; const B : TAnsiStringBuilder; const P
6833: : TTHTTPStringOptions)
6834: Procedure BuildStrHTTPCookieField( const A : TTHTTPCookieField; const B : TAnsiStringBuilder; const P
6835: : TTHTTPStringOptions)
6836: Procedure BuildStrHTTPRequestStartLine( const A : TTHTTPRequestStartLine; const B : TAnsiStringBuilder;
6837: const P : TTHTTPStringOptions)
6838: Procedure BuildStrHTTPRequestHeader( const A : TTHTTPRequestHeader; const B : TAnsiStringBuilder; const P
6839: : TTHTTPStringOptions)
6840: Procedure BuildStrHTTPRequest( const A : TTHTTPRequest; const B : TAnsiStringBuilder; const P :
6841: TTHTTPStringOptions)
6842: Procedure BuildStrHTTPResponseCookieFieldArray( const A : TTHTTPSetCookieFieldArray; const B : TAnsiStringBuilder;
6843: const P : TTHTTPStringOptions)
6844: Procedure BuildStrHTTPResponseStartLine( const A : TTHTTPResponseStartLine; const B : TAnsiStrBldr; const P
6845: : TTHTTPStrOptions);
6846: Procedure BuildStrHTTPResponseHeader( const A : TTHTTPResHeader; const B : TAnsiStrBuilder; const P
6847: : TTHTTPStringOptions);
6848: Procedure BuildStrHTTPResponse( const A : TTHTTPResponse; const B : TAnsiStringBuilder; const P
6849: : TTHTTPStringOptions);
6850: Function HTTPContentTypeValueToStr( const A : TTHTTPContentType ) : AnsiString
6851: Function HTTPSetCookieFieldValueToStr( const A : TTHTTPSetCookieField ) : AnsiString
6852: Function HTTPCookieFieldValueToStr( const A : TTHTTPCookieField ) : AnsiString
6853: Function HTTPMethodToStr( const A : TTHTTPMethod ) : AnsiString
6854: Function HTTPRequestToStr( const A : TTHTTPRequest ) : AnsiString
6855: Function HTTPResponseToStr( const A : TTHTTPResponse ) : AnsiString
6856: Procedure PrepareCookie( var A : TTHTTPCookieField; const B : TTHTTPSetCookieFieldArray; const
6857: Domain : AnsiString; const Secure : Boolean; TTHTTPParserHeaderParseFunc' , 'Function ( const HeaderName : THTT'
6858: +PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6859: SIRegister_THTTPParser(CL);
6860: FindClass('TOBJECT'), 'TTHTTPContentDecoder'
6861: TTHTTPContentDecoderProc', 'Procedure ( const Sender : TTHTTPContentDecoder )
6862: TTHTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6863: TTHTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6864: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6865: TTHTTPContentDecoderLogEvent', 'Procedure ( const Sender : TTHTTPContentDecoder; const LogMsg : String )
6866: SIRegister_THTTPContentDecoder(CL);
6867: TTHTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6868: FindClass('TOBJECT'), 'TTHTTPContentReader'
6869: TTHTTPContentReaderProc', 'Procedure ( const Sender : TTHTTPContentReader )
6870: TTHTTPContentReaderLogEvent', 'Procedure ( const Sender : TTHTTPContentWriter; const LogMsg : String; const
6871: LogLevel : Int );
6872: SIRegister_THTTPContentReader(CL);
6873: TTHTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6874: FindClass('TOBJECT'), 'TTHTTPContentWriter'
6875: TTHTTPContentWriterLogEvent', 'Procedure ( const Sender : TTHTTPContentWriter; const LogMsg : AnsiString );
6876: SIRegister_THTTPContentWriter(CL);
6877: Procedure SelfTestcHTTPUtils
6878: end;
6879: (*-----*)
6880: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6881: begin
6882: 'TLSLibraryVersion', 'String '1.00
6883: 'TLSerror_None', 'LongInt'( 0 );
6884: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6885: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6886: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6887: 'TLSerror_InvalidState', 'LongInt'( 4 );
6888: 'TLSerror_DecodeError', 'LongInt'( 5 );
6889: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6890: Function TLSErrorMessage( const TLSerror : Integer ) : String
6891: SIRegister_ETLSError(CL);
6892: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6893: TTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6894: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion )
6895: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion )
6896: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion )
6897: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion )
6898: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6899: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6900: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6901: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6902: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6903: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6904: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6905: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6906: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6907: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean

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6894: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6895: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion ) : String
6896: Function TLSProtocolVersionName( const A : TTLSProtocolVersion ) : String
6897: PTLSRandom', '^PTLSRandom // will not work
6898: Procedure InitTLSRandom( var Random : TTLSRandom )
6899: Function TLSRandomToStr( const Random : TTLSRandom ) : AnsiString
6900: 'TLSsessionIDMaxLen','LongInt'( 32 );
6901: Procedure InitTLSSessionID( var SessionID : TLSSessionID; const A : AnsiString )
6902: Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TLSSessionID):Int;
6903: Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TLSSessionID):Int;
6904: TTLSignatureAndHashAlgorithm', 'record Hash : TTLSHashAlgorithm'
6905: +' ; Signature : TTLSignatureAlgorithm; end
6906: // PTLSsignatureAndHashAlgorithm', '^TTLSsignatureAndHashAlgorithm' // will not work
6907: TTLSignatureAndHashAlgorithmArray', 'array of TTLSignatureAndHashAlgorithm
6908: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_'
6909: +'DSS', tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6910: TTLSMACAlgorithm', '( tlsmNone, tlsmNULL, tlsmAHMAC_MD5, tlsm'
6911: +'HMAC_SHA1, tlsmAHMAC_SHA256, tlsmAHMAC_SHA384, tlsmAHMAC_SHA512 )
6912: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6913: +'nteger; Supported : Boolean; end
6914: PTLSMacAlgorithmInfo', '^TTLSMacAlgorithmInfo // will not work
6915: 'TLS_MAC_MAXDIGESTSIZE','LongInt'( 64 );
6916: TTLSPRFAlgorithm', '( tlspaSHA256 )
6917: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6918: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6919: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6920: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6921: Function tlsp1OPRF( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6922: Function tlsp12PRF_SHA256( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6923: Function tlsp12PRF_SHA512( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6924: Function TLSPRF( const ProtoVersion:TTLSProtocolVersion;const Secret,ALLabel,Seed:AString;const
Size:Int):AString;
6925: Function tlsp10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
Size:Integer):AnsiString
6926: Function tlsp12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6927: Function tlsp12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6928: Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6929: Function tlsp10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6930: Function tlsp12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6931: Function tlsp12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6932: Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
ServerRandom:AnsiString ) : AnsiString
6933: 'TLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6934: +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6935: +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6936: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys )
6937: Procedure GenerateFinalTLSKeys( const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys )
6938: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1 );
6939: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024 );
6940: Procedure SelfTestcTLSUtils
6941: end;
6942:
6943: (*-----*)
6944: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6945: begin
6946:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
6947: // pBoard', '^tBoard // will not work
6948: Function rCalculateData( cc : byte; cx, cy : integer ) : sPosData
6949: Function rCheckMove( color : byte; cx, cy : integer ) : integer
6950: //Function rDoStep( data : pBoard ) : word
6951: Function winExecAndWait( const sAppPath : string; wVisible : word ) : boolean
6952: end;
6953:
6954: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6955: begin
6956: Function InEditMode( ADataSet : TDataSet ) : Boolean
6957: Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
6958: Function CheckDataSource1( ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
6959: Function GetFieldText( AField : TField ) : String
6960: end;
6961:
6962: procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
6963: begin
6964:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6965:   TMyPrintRange', '( prAll, prSelected )
6966:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6967:   +'ded, ssDateTime, ssTime, ssCustom )
6968:   TSortDirection', '( sdAscending, sdDescending )
6969:   TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
6970:   TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer'
6971:   +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6972:   TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6973:   TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)

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

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7062: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string);
7063: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7064: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7065: procedure SendError(UDPClient: TIdUDPClient; E: Exception); overload;
7066: function IdStrToWord(const Value: String): Word;
7067: function IdWordToStr(const Value: Word): WordStr;
7068: Function HasInstructionSet(const InstructionSet : TCPUIInstructionSet) : Boolean;
7069: Function CPUFeatures : TCPUFeatures;
7070:
7071: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7072: begin
7073:   AddTypeS('TXRTLBIndex', 'Integer');
7074:   Function XRTLswapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBIndex ) : Cardinal;
7075:   Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBIndex ) : Boolean;
7076:   Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal;
7077:   Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal;
7078:   Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal;
7079:   Function XRTLswapHiLo16( X : Word ) : Word;
7080:   Function XRTLswapHiLo32( X : Cardinal ) : Cardinal;
7081:   Function XRTLswapHiLo64( X : Int64 ) : Int64;
7082:   Function XRTLROL32( A, S : Cardinal ) : Cardinal;
7083:   Function XRTLRROR32( A, S : Cardinal ) : Cardinal;
7084:   Function XRTLROL16( A : Word; S : Cardinal ) : Word;
7085:   Function XRTLRROR16( A : Word; S : Cardinal ) : Word;
7086:   Function XRTLROL8( A : Byte; S : Cardinal ) : Byte;
7087:   Function XRTLRROR8( A : Byte; S : Cardinal ) : Byte;
7088: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer );
7089: //Procedure XRTLIncBlock( P : PByteArray; Len : integer );
7090: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer );
7091:   Function XRTLPopulation( A : Cardinal ) : Cardinal;
7092: end;
7093:
7094: Function XRTLURLDecode( const ASrc : WideString ) : WideString;
7095: Function XRTLURLEncode( const ASrc : WideString ) : WideString;
7096: Function XRTLURINormalize( const AURI : WideString ) : WideString;
7097: Procedure XRTLIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,VPassword : WideString);
7098: Function XRTLExtractLongPathName(APath: string): string;
7099:
7100: procedure SIRegister_cfFundamentUtils(CL: TPSPascalCompiler);
7101: begin
7102:   AddTypeS('Int8', 'ShortInt');
7103:   AddTypeS('Int16', 'SmallInt');
7104:   AddTypeS('Int32', 'LongInt');
7105:   AddTypeS('UInt8', 'Byte');
7106:   AddTypeS('UInt16', 'Word');
7107:   AddTypeS('UInt32', 'LongWord');
7108:   AddTypeS('UInt64', 'Int64');
7109:   AddTypeS('Word8', 'UInt8');
7110:   AddTypeS('Word16', 'UInt16');
7111:   AddTypeS('Word32', 'UInt32');
7112:   AddTypeS('Word64', 'UInt64');
7113:   AddTypeS('LargeInt', 'Int64');
7114:   AddTypeS('NativeInt', 'Integer');
7115:   AddTypeS('NativeUInt', 'Cardinal');
7116:   Const('BitsPerByte', 'LongInt'( 8 ));
7117:   Const('BitsPerWord', 'LongInt'( 16 ));
7118:   Const('BitsPerLongWord', 'LongInt'( 32 ));
7119: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7120: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7121:   Function MinI( const A, B : Integer ) : Integer;
7122:   Function MaxI( const A, B : Integer ) : Integer;
7123:   Function MinC( const A, B : Cardinal ) : Cardinal;
7124:   Function MaxC( const A, B : Cardinal ) : Cardinal;
7125:   Function SumClipI( const A, I : Integer ) : Integer;
7126:   Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal;
7127:   Function InByteRange( const A : Int64 ) : Boolean;
7128:   Function InWordRange( const A : Int64 ) : Boolean;
7129:   Function InLongWordRange( const A : Int64 ) : Boolean;
7130:   Function InShortIntRange( const A : Int64 ) : Boolean;
7131:   Function InSmallIntRange( const A : Int64 ) : Boolean;
7132:   Function InLongIntRange( const A : Int64 ) : Boolean;
7133:   AddTypeS('Bool8', 'ByteBool');
7134:   AddTypeS('Bool16', 'WordBool');
7135:   AddTypeS('Bool32', 'LongBool');
7136:   AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )');
7137:   AddTypeS('TCompareResultSet', 'set of TCompareResult');
7138:   Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult;
7139:   Const('MinSingle','Single').setExtended( 1.5E-45 );
7140:   Const('MaxSingle','Single').setExtended( 3.4E+38 );
7141:   Const('MinDouble','Double').setExtended( 5.0E-324 );
7142:   Const('MaxDouble','Double').setExtended( 1.7E+308 );
7143:   Const('MinExtended','Extended').setExtended( 3.4E-4932 );
7144:   Const('MaxExtended','Extended').setExtended( 1.1E+4932 );
7145:   Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );
7146:   Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807 );
7147:   Function MinF( const A, B : Float ) : Float;
7148:   Function MaxF( const A, B : Float ) : Float;
7149:   Function ClipF( const Value : Float; const Low, High : Float ) : Float;

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

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

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

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

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

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

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

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7766: AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7767:   +'ye, lbrotate, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7768:   +'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7769: SIRegister_TJvPaintFX(CL);
7770: Function SplineFilter( Value : Single ) : Single
7771: Function BellFilter( Value : Single ) : Single
7772: Function TriangleFilter( Value : Single ) : Single
7773: Function BoxFilter( Value : Single ) : Single
7774: Function HermiteFilter( Value : Single ) : Single
7775: Function Lanczos3Filter( Value : Single ) : Single
7776: Function MitchellFilter( Value : Single ) : Single
7777: end;
7778:
7779:
7780: (*-----*)
7781: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7782: begin
7783:   'TeeMsg_DefaultFunctionName', 'String 'TeeFunction
7784:   TeeMsg_DefaultSeriesName', 'String 'Series
7785:   TeeMsg_DefaultToolName', 'String 'ChartTool
7786:   ChartComponentPalette', 'String 'TeeChart
7787:   TeeMaxLegendColumns', 'LongInt'( 2 );
7788:   TeeDefaultLegendSymbolWidth', 'LongInt'( 20 );
7789:   TeeTitleFootDistance, LongInt( 5 );
7790:   SIRegister_TCustomChartWall(CL);
7791:   SIRegister_TChartWall(CL);
7792:   SIRegister_TChartLegendGradient(CL);
7793:   TLegendStyle', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7794:   TLegendAlignment', '( laLeft, laRight, laTop, laBottom )
7795:   FindClass('TOBJECT'), 'LegendException
7796:   TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7797:     +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7798:   FindClass('TOBJECT'), 'TCustomChartLegend
7799:   TLegendSymbolSize', '( lcsPercent, lcsPixels )
7800:   TLegendSymbolPosition', '( spLeft, spRight )
7801:   TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7802:   TSymbolCalcHeight', 'Function : Integer
7803:   SIRegister_TLegendSymbol(CL);
7804:   SIRegister_TTeeCustomShapePosition(CL);
7805:   TCheckboxesStyle', '( cbsCheck, cbsRadio )
7806:   SIRegister_TLegendTitle(CL);
7807:   SIRegister_TLegendItem(CL);
7808:   SIRegister_TLegendItems(CL);
7809:   TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7810:   FindClass('TOBJECT'), 'TCustomChart
7811:   SIRegister_TCustomChartLegend(CL);
7812:   SIRegister_TChartLegend(CL);
7813:   SIRegister_TChartTitle(CL);
7814:   SIRegister_TChartFootTitle(CL);
7815:   TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7816:     +'eButton; Shift : TShiftState; X, Y : Integer)
7817:   TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7818:     +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7819:   TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7820:     +'TChartSeries; ValueIndex : Integer; Button: TMouseButton; Shift:TShiftState;X,Y:Integer)
7821:   TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7822:     +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7823:   TOnGetLegendPos', 'Procedure ( Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7824:   TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7825:   TAxissavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7826:     +'toMax : Boolean; Min : Double; Max : Double; end
7827:   TAxissavedScales', 'array of TAxissavedScales
7828:   SIRegister_TChartBackWall(CL);
7829:   SIRegister_TChartRightWall(CL);
7830:   SIRegister_TChartBottomWall(CL);
7831:   SIRegister_TChartLeftWall(CL);
7832:   SIRegister_TChartWalls(CL);
7833:   TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7834:   SIRegister_TCustomChart(CL);
7835:   SIRegister_TChart(CL);
7836:   SIRegister_TTeeSeriesTypes(CL);
7837:   SIRegister_TTeeToolTypes(CL);
7838:   SIRegister_TTeeDragObject(CL);
7839:   SIRegister_TColorPalettes(CL);
7840:   Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
    AGalleryPage:PString;ANumGallerySeries:Integer;
7841:   Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADscription : PString);
7842:   Procedure RegisterTeeFunction( AFuncClass:T TeeFunctionClass;ADescription,
    AGalleryPage:PString;ANumGallerySeries: Int;
7843:   Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADscription : PString)
7844:   Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass;AFunctionClass:TTeeFunctionClass;
    ADscription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7845:   Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7846:   Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7847:   Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7848:   Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass) : TTeeFunction
7849:   Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
    AFunctionClass : TTeeFunctionClass) : TChartSeries
7850:   Function CloneChartSeries( ASeries : TChartSeries) : TChartSeries;

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7851: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel ) : TChartSeries;
7852: Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7853: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7854: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7855: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass )
7856: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7857: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass )
7858: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass )
7859: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7860: Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
R:TRect;ReferenceChart:TCustomChart);
7861: SIRegister_TChartTheme(CL);
7862: //TChartThemeClass', 'class of TChartTheme
7863: //TCanvasClass', 'class of TCanvas3D
7864: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7865: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7866: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean )
7867: Procedure ShowMessageUser( const S : String )
7868: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7869: Function HasLabels( ASeries : TChartSeries ) : Boolean
7870: Function HasColors( ASeries : TChartSeries ) : Boolean
7871: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7872: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer )
7873: end;
7874:
7875:
7876: procedure SIRegister_TeeProcs(CL: TPPascalCompiler);
7877: begin
7878: //TeeFormBorderStyle',' bsNone );
7879: SIRegister_TMetafile(CL);
7880: 'TeeDefVerticalMargin','LongInt'( 4 );
7881: 'TeeDefHorizMargin','LongInt'( 3 );
7882: 'crTeeHand','LongInt'( TCursor ( 2020 ) );
7883: 'TeeMsg_TeeHand','String 'crTeeHand
7884: 'TeeNormalPrintDetail','LongInt'( 0 );
7885: 'TeeHighPrintDetail','LongInt'( - 100 );
7886: 'TeeDefault_PrintMargin','LongInt'( 15 );
7887: 'MaxDefaultColors','LongInt'( 19 );
7888: 'TeeTabDelimiter','Char #9);
7889: TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7890: + 'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7891: + 'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7892: + 'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7893: + 'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7894: + 'ourMonths, dtSixMonths, dtOneYear, dtNone )
7895: SIRegister_TCustomPanelNoCaption(CL);
7896: FindClass('TOBJECT'), 'TCustomTeePanel
7897: SIRegister_TZoomPanning(CL);
7898: SIRegister_TTeeEvent(CL);
7899: //SIRegister_TTeeEventListeners(CL);
7900: TTeeMouseEventKind', '( meDown, meUp, meMove )
7901: SIRegister_TTeeMouseEvent(CL);
7902: SIRegister_TCustomTeePanel(CL);
7903: //TChartGradient', 'TTeeGradient
7904: //TChartGradientClass', 'class of TChartGradient
7905: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7906: SIRegister_TTeeZoomPen(CL);
7907: SIRegister_TTeeZoomBrush(CL);
7908: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7909: SIRegister_TTeeZoom(CL);
7910: FindClass('TOBJECT'), 'TCustomTeePanelExtended
7911: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7912: SIRegister_TBackImage(CL);
7913: SIRegister_TCustomTeePanelExtended(CL);
7914: //TChartBrushClass', 'class of TChartBrush
7915: SIRegister_TTeeCustomShapeBrushPen(CL);
7916: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7917: TTextFormat', '( ttfNormal, ttfHtml )
7918: SIRegister_TTeeCustomShape(CL);
7919: SIRegister_TTeeShape(CL);
7920: SIRegister_TTeeExportData(CL);
7921: Function TeeStr( const Num : Integer ) : String
7922: Function DateTimeDefaultFormat( const AStep : Double ) : String
7923: Function TEEDaysInMonth( Year, Month : Word ) : Word
7924: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep
7925: Function NextDateTimeStep( const AStep : Double ) : Double
7926: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7927: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7928: Function PointInLine2( const P, FromPoint, ToPoint:TPoint;const TolerancePixels:Integer):Boolean;
7929: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer ):Boolean;
7930: Function PointInLineTolerance( const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer ):Boolean;
7931: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean;
7932: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
7933: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
7934: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;
7935: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7936: Function PointInEllipse1( const P : TPoint;Left,Top,Right, Bottom : Integer ) : Boolean;
7937: Function DelphiToLocalFormat( const Format : String ) : String
7938: Function LocalToDelphiFormat( const Format : String ) : String

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7939: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
7940: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
7941: Procedure TeeDateTimeIncrement(IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
    AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
7942: TTeeSortCompare', 'Procedure ( a, b : Integer ) : Integer
7943: TTeeSortSwap', 'Procedure ( a, b : Integer )
7944: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TTeeSortCompare;SwapFunc:TTeeSortSwap);
7945: Function TeeGetUniqueName( AOwner : TComponent; const AStartTime : String ) : string
7946: Function TeeExtractField( St : String; Index : Integer ) : String;
7947: Function TeeExtractFieldl( St : String; Index : Integer; const Separator : String ) : String;
7948: Function TeeNumFields( St : String ) : Integer;
7949: Function TeeNumFields1( const St, Separator : String ) : Integer;
7950: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap );
7951: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String );
7952: // TColorArray', 'array of TColor
7953: Function GetDefaultColor( const Index : Integer ) : TColor
7954: Procedure SetDefaultColorPalette;
7955: Procedure SetDefaultColorPalette1( const Palette : array of TColor );
7956: 'TeeCheckBoxSize','LongInt'( 11 );
7957: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7958: Function TEEStrToFloatDef( const S : string; const Default : Extended ) : Extended
7959: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean
7960: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean
7961: Procedure TeeTranslateControl( AControl : TControl );
7962: Procedure TeeTranslateControl1( AControl : TControl; const ExcludeChilds : array of TControl );
7963: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String
7964: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints )
7965: Function TeeAntiAlias( Panel : TCustomeTeePanel; ChartRect : Boolean ) : TBitmap
7966: //Procedure DrawBevel(Canvas:TTEeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7967: //Function ScreenRatio( ACanvas : TCanvas3D ) : Double
7968: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean ) : Boolean
7969: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean )
7970: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer ) : Integer
7971: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer )
7972: Function TeeReadStringOption( const AKey, DefaultValue : String ) : String
7973: Procedure TeeSaveStringOption( const AKey, Value : String )
7974: Function TeeDefaultXMLEncoding : String
7975: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean )
7976: TeeWindowHandle', 'Integer
7977: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String )
7978: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String )
7979: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String ) : TSize
7980: end;
7981:
7982:
7983: using mXBDEUtils
7984: ****
7985: Procedure SetAlias( aAlias, aDirectory : String )
7986: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
    Desired:Variant;Size:Byte);
7987: Function GetFileVersionNumber( const FileName : String ) : TVersionNo
7988: Procedure SetBDE( aPath, aNode, aValue : String )
7989: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
7990: Function GetSystemDirectory( lpBuffer : string; uSize : UINT ) : UINT
7991: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT ) : UINT
7992: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string ) : DWORD
7993: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string ) : DWORD
7994: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
7995:
7996:
7997: procedure SIRegister_cDateTime(CL: TPPascalCompiler);
7998: begin
7999: AddClassN(FindClass('TOBJECT'), 'EDateTime'
8000: Function DatePart( const D : TDateTime ) : Integer
8001: Function TimePart( const D : TDateTime ) : Double
8002: Function Century( const D : TDateTime ) : Word
8003: Function Year( const D : TDateTime ) : Word
8004: Function Month( const D : TDateTime ) : Word
8005: Function Day( const D : TDateTime ) : Word
8006: Function Hour( const D : TDateTime ) : Word
8007: Function Minute( const D : TDateTime ) : Word
8008: Function Second( const D : TDateTime ) : Word
8009: Function Millisecond( const D : TDateTime ) : Word
8010: ('OneDay','Extended').SetExtended( 1.0 );
8011: ('OneHour','Extended').SetExtended( OneDay / 24 );
8012: ('OneMinute','Extended').SetExtended( OneHour / 60 );
8013: ('OneSecond','Extended').SetExtended( OneMinute / 60 );
8014: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000 );
8015: ('OneWeek','Extended').SetExtended( OneDay * 7 );
8016: ('HoursPerDay','Extended').SetExtended( 24 );
8017: ('MinutesPerHour','Extended').SetExtended( 60 );
8018: ('SecondsPerMinute','Extended').SetExtended( 60 );
8019: Procedure SetYear( var D : TDateTime; const Year : Word )
8020: Procedure SetMonth( var D : TDateTime; const Month : Word )
8021: Procedure SetDay( var D : TDateTime; const Day : Word )
8022: Procedure SetHour( var D : TDateTime; const Hour : Word )
8023: Procedure SetMinute( var D : TDateTime; const Minute : Word )
8024: Procedure SetSecond( var D : TDateTime; const Second : Word )
8025: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word )

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8026: Function IsEqual( const D1, D2 : TDateTime ) : Boolean;
8027: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8028: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8029: Function IsAM( const D : TDateTime ) : Boolean
8030: Function IsPM( const D : TDateTime ) : Boolean
8031: Function IsMidnight( const D : TDateTime ) : Boolean
8032: Function IsNoon( const D : TDateTime ) : Boolean
8033: Function IsSunday( const D : TDateTime ) : Boolean
8034: Function IsMonday( const D : TDateTime ) : Boolean
8035: Function IsTuesday( const D : TDateTime ) : Boolean
8036: Function IsWednesday( const D : TDateTime ) : Boolean
8037: Function IsThursday( const D : TDateTime ) : Boolean
8038: Function IsFriday( const D : TDateTime ) : Boolean
8039: Function IsSaturday( const D : TDateTime ) : Boolean
8040: Function IsWeekend( const D : TDateTime ) : Boolean
8041: Function Noon( const D : TDateTime ) : TDateTime
8042: Function Midnight( const D : TDateTime ) : TDateTime
8043: Function FirstDayOfMonth( const D : TDateTime ) : TDateTime
8044: Function LastDayOfMonth( const D : TDateTime ) : TDateTime
8045: Function NextWorkday( const D : TDateTime ) : TDateTime
8046: Function PreviousWorkday( const D : TDateTime ) : TDateTime
8047: Function FirstDayOfYear( const D : TDateTime ) : TDateTime
8048: Function LastDayOfYear( const D : TDateTime ) : TDateTime
8049: Function EasterSunday( const Year : Word ) : TDateTime
8050: Function GoodFriday( const Year : Word ) : TDateTime
8051: Function AddMilliseconds( const D : TDateTime; const N : Int64 ) : TDateTime
8052: Function AddSeconds( const D : TDateTime; const N : Int64 ) : TDateTime
8053: Function AddMinutes( const D : TDateTime; const N : Integer ) : TDateTime
8054: Function AddHours( const D : TDateTime; const N : Integer ) : TDateTime
8055: Function AddDays( const D : TDateTime; const N : Integer ) : TDateTime
8056: Function AddWeeks( const D : TDateTime; const N : Integer ) : TDateTime
8057: Function AddMonths( const D : TDateTime; const N : Integer ) : TDateTime
8058: Function AddYears( const D : TDateTime; const N : Integer ) : TDateTime
8059: Function DayOfYear( const Ye, Mo, Da : Word ) : Integer
8060: Function DayOffYear( const D : TDateTime ) : Integer
8061: Function DaysInMonth( const Ye, Mo : Word ) : Integer
8062: Function DaysInMonth( const D : TDateTime ) : Integer
8063: Function DaysInYear( const Ye : Word ) : Integer
8064: Function DaysInYearDate( const D : TDateTime ) : Integer
8065: Function WeekNumber( const D : TDateTime ) : Integer
8066: Function ISOFirstWeekOfYear( const Ye : Word ) : TDateTime
8067: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word)
8068: Function DiffMilliseconds( const D1, D2 : TDateTime ) : Int64
8069: Function DiffSeconds( const D1, D2 : TDateTime ) : Integer
8070: Function DiffMinutes( const D1, D2 : TDateTime ) : Integer
8071: Function DiffHours( const D1, D2 : TDateTime ) : Integer
8072: Function DiffDays( const D1, D2 : TDateTime ) : Integer
8073: Function DiffWeeks( const D1, D2 : TDateTime ) : Integer
8074: Function DiffMonths( const D1, D2 : TDateTime ) : Integer
8075: Function DiffYears( const D1, D2 : TDateTime ) : Integer
8076: Function GMTBias : Integer
8077: Function GMTTimeToLocalTime( const D : TDateTime ) : TDateTime
8078: Function LocalTimeToGMTTime( const D : TDateTime ) : TDateTime
8079: Function NowAsGMTTime : TDateTime
8080: Function DateTimeToISO8601String( const D : TDateTime ) : AnsiString
8081: Function ISO8601StringToTime( const D : AnsiString ) : TDateTime
8082: Function ISO8601StringAsDateTime( const D : AnsiString ) : TDateTime
8083: Function DatetimeToANSI( const D : TDateTime ) : Integer
8084: Function ANSIToDateTime( const Julian : Integer ) : TDateTime
8085: Function DateToISOInteger( const D : TDateTime ) : Integer
8086: Function DateToISOString( const D : TDateTime ) : AnsiString
8087: Function ISOIntegerToDateTime( const ISOInteger : Integer ) : TDateTime
8088: Function TwoDigitRadix2000YearToYear( const Y : Integer ) : Integer
8089: Function DateToElapsed( const D:TDateTime; const IncludeMilliseconds:Boolean):AnsiString
8090: Function UnixTimeToDate( const UnixTime : LongWord ) : TDateTime
8091: Function DateToUnixTime( const D : TDateTime ) : LongWord
8092: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8093: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8094: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8095: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8096: Function EnglishShortMonthStrA( const Month : Integer ) : AnsiString
8097: Function EnglishShortMonthStrU( const Month : Integer ) : UnicodeString
8098: Function EnglishLongMonthStrA( const Month : Integer ) : AnsiString
8099: Function EnglishLongMonthStrU( const Month : Integer ) : UnicodeString
8100: Function EnglishShortDayOfWeekA( const S : AnsiString ) : Integer
8101: Function EnglishShortDayOfWeekU( const S : UnicodeString ) : Integer
8102: Function EnglishLongDayOfWeekA( const S : AnsiString ) : Integer
8103: Function EnglishLongDayOfWeekU( const S : UnicodeString ) : Integer
8104: Function EnglishShortMonthA( const S : AnsiString ) : Integer
8105: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8106: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8107: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8108: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8109: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8110: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8111: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8112: Function RFCMonthA( const S : AnsiString ) : Word
8113: Function RFCMonthU( const S : UnicodeString ) : Word
8114: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds:Boolean ) : AnsiString

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8115: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds:Boolean) : UnicodeString
8116: Function GMTDateTimeToRFC1123DateTimeA(const D: TDateTime; const IncludeDayOfWeek:Bool):AnsiString;
8117: Function GMTDateTimeToRFC1123DateTimeU(const D:TDateTime;const IncludeDayOfWeek:Bool):UnicodeString;
8118: Function DateTimeToRFCDateTimeA( const D : TDateTime) : AnsiString
8119: Function DateTimeToRFCDateTimeU( const D : TDateTime) : UnicodeString
8120: Function NowAsRFCDateTimeA : AnsiString
8121: Function NowAsRFCDateTimeU : UnicodeString
8122: Function RFCDateTimeToGMTDateTime( const S : AnsiString) : TDateTime
8123: Function RFCDateTimeToDateTIme( const S : AnsiString) : TDateTime
8124: Function RFCTimeZoneToGMTBias( const Zone : AnsiString) : Integer
8125: Function TimePeriodStr( const D : TDateTime) : AnsiString
8126: Procedure SelfTest
8127: end;
8128: //*****CFileUtils
8129: Function PathHasDriveLetterA( const Path : AnsiString) : Boolean
8130: Function PathHasDriveLetter( const Path : String) : Boolean
8131: Function PathIsDriveLetterA( const Path : AnsiString) : Boolean
8132: Function PathIsDriveLetter( const Path : String) : Boolean
8133: Function PathIsDriveRootA( const Path : AnsiString) : Boolean
8134: Function PathIsDriveRoot( const Path : String) : Boolean
8135: Function PathIsRootA( const Path : AnsiString) : Boolean
8136: Function PathIsRoot( const Path : String) : Boolean
8137: Function PathIsUNCPathA( const Path : AnsiString) : Boolean
8138: Function PathIsUNCPath( const Path : String) : Boolean
8139: Function PathIsAbsoluteA( const Path : AnsiString) : Boolean
8140: Function PathIsAbsolute( const Path : String) : Boolean
8141: Function PathIsDirectoryA( const Path : AnsiString) : Boolean
8142: Function PathIsDirectory( const Path : String) : Boolean
8143: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char) : AnsiString
8144: Function PathInclSuffix( const Path : String; const PathSep : Char) : String
8145: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char) : AnsiString
8146: Function PathExclSuffix( const Path : String; const PathSep : Char) : String
8147: Procedure PathEnsuresuffixA( var Path : AnsiString; const PathSep : Char)
8148: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char)
8149: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char)
8150: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char)
8151: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char) : AnsiString
8152: Function PathCanonical( const Path : String; const PathSep : Char) : String
8153: Function PathExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8154: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char) : String
8155: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char) : AnsiString
8156: Function PathLeftElement( const Path : String; const PathSep : Char) : String
8157: Procedure PathSplitLeftElementA(const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char);
8158: Procedure PathSplitLeftElement(const Path:String; var LeftElement,RightPath: String;const PathSep:Char);
8159: Procedure DecodeFilePathA(const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char);
8160: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char)
8161: Function FileNameValidA( const FileName : AnsiString) : AnsiString
8162: Function FileNameValid( const FileName : String) : String
8163: Function FilePathA(const FileName,Path:AnsiString;const basePath:AnsiStr;const PathSep:Char):AnsiString;
8164: Function FilePath(const FileName, Path: String;const basePath: String;const PathSep : Char) : String
8165: Function DirectoryExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8166: Function DirectoryExpand(const Path: String; const basePath : String; const PathSep : Char) : String
8167: Function UnixPathToWinPath( const Path : AnsiString) : AnsiString
8168: Function WinPathToUnixPath( const Path : AnsiString) : AnsiString
8169: Procedure CCopyFile( const FileName, DestName : String)
8170: Procedure CMoveFile( const FileName, DestName : String)
8171: Function CDeleteFiles( const FileMask : String) : Boolean
8172: Function FileSeekEx(const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8173: Procedure FileCloseEx( const FileHandle : TFileHandle)
8174: Function FileExistsA( const FileName : AnsiString) : Boolean
8175: Function CFileExists( const FileName : String) : Boolean
8176: Function CFileGetSize( const FileName : String) : Int64
8177: Function FileGetDateTime( const FileName : String) : TDateTime
8178: Function FileGetDateTime2( const FileName : String) : TDateTime
8179: Function FileIsReadOnly( const FileName : String) : Boolean
8180: Procedure FileDeleteEx( const FileName : String)
8181: Procedure FileRenameEx( const OldFileName, NewFileName : String)
8182: Function ReadfileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait) : AnsiString
8183: Function DirectoryEntryExists( const Name : String) : Boolean
8184: Function DirectoryEntrySize( const Name : String) : Int64
8185: Function CDirectoryExists( const DirectoryName : String) : Boolean
8186: Function DirectoryGetDateTime( const DirectoryName : String) : TDateTime
8187: Procedure CDirectoryCreate( const DirectoryName : String)
8188: Function GetFirstFileNameMatching( const FileMask : String) : String
8189: Function DirEntryGetAttr( const FileName : AnsiString) : Integer
8190: Function DirEntryIsDirectory( const FileName : AnsiString) : Boolean
8191: Function FileHasAttr( const FileName : String; const Attr : Word) : Boolean
8192: AddTypeS('TLogicalDriveType', '( DriveRemovable, DriveFixed, DriveRemote, '
8193: + 'DriveCDRom, DriveRamDisk, DriveTypeUnknown )'
8194: Function DriveIsValid( const Drive : Char) : Boolean
8195: Function DriveGetType( const Path : AnsiString) : TLogicalDriveType
8196: Function DriveFreeSpace( const Path : AnsiString) : Int64
8197:
8198: procedure SIRegister_cTimers(CL: TPPascalCompiler);
8199: begin
8200: AddClassN(FindClass('TOBJECT'), 'ETimers
8201: Const ('TickFrequency', 'LongInt'( 1000);Function GetTick : LongWord
8202: Function TickDelta( const D1, D2 : LongWord) : Integer

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8203: Function TickDeltaW( const D1, D2 : LongWord ) : LongWord
8204: AddTypeS('THPTimer', 'Int64'
8205: Procedure StartTimer( var Timer : THPTimer )
8206: Procedure StopTimer( var Timer : THPTimer )
8207: Procedure ResumeTimer( var StoppedTimer : THPTimer )
8208: Procedure InitStoppedTimer( var Timer : THPTimer )
8209: Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer )
8210: Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Integer
8211: Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Int64
8212: Procedure WaitMicroseconds( const MicroSeconds : Integer )
8213: Function GetHighPrecisionFrequency : Int64
8214: Function GetHighPrecisionTimerOverhead : Int64
8215: Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64 )
8216: Procedure SelfTestCTimer
8217: end;
8218:
8219: procedure SIRegister_cRandom(CL: TPSPPascalCompiler);
8220: begin
8221:   Function RandomSeed : LongWord
8222:   Procedure AddEntropy( const Value : LongWord )
8223:   Function RandomUniform : LongWord;
8224:   Function RandomUniforml( const N : Integer ) : Integer;
8225:   Function RandomBoolean : Boolean
8226:   Function RandomByte : Byte
8227:   Function RandomByteNonZero : Byte
8228:   Function RandomWord : Word
8229:   Function RandomInt64 : Int64;
8230:   Function RandomInt64l( const N : Int64 ) : Int64;
8231:   Function RandomHex( const Digits : Integer ) : String
8232:   Function RandomFloat : Extended
8233:   Function RandomAlphaStr( const Length : Integer ) : AnsiString
8234:   Function RandomPseudoWord( const Length : Integer ) : AnsiString
8235:   Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8236:   Function mwcRandomLongWord : LongWord
8237:   Function urnRandomLongWord : LongWord
8238:   Function moaRandomFloat : Extended
8239:   Function mwcRandomFloat : Extended
8240:   Function RandomNormalF : Extended
8241:   Procedure SelfTestCRandom
8242: end;
8243:
8244: procedure SIRegister_SynEditMiscProcs(CL: TPSPPascalCompiler);
8245: begin
8246: // PIntArray', '^TIntArray // will not work
8247: Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8248: TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8249: Function synMax( x, y : integer ) : integer
8250: Function synMin( x, y : integer ) : integer
8251: Function synMinMax( x, mi, ma : integer ) : integer
8252: Procedure synSwapInt( var l, r : integer )
8253: Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8254: Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8255: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8256: Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8257: Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8258: Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8259: Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8260: Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8261: Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8262: Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string ) : integer
8263: Function synCaretPos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8264: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8265: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8266: TStringType', '( stNone, stHalfNumAlpha, stHalfSymbol, stHalfKat '
8267: + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida ')
8268: ('C3_NONSPACING','LongInt'( 1 );
8269: ('C3_DIACRITIC','LongInt'( 2 );
8270: ('C3_VOWELMARK','LongInt'( 4 );
8271: ('C3_SYMBOL','LongInt'( 8 );
8272: ('C3_KATAKANA','LongWord( $0010 );
8273: ('C3_HIRAGANA','LongWord( $0020 );
8274: ('C3_HALFWIDTH','LongWord( $0040 );
8275: ('C3_FULLWIDTH','LongWord( $0080 );
8276: ('C3_IDEOGRAPH','LongWord( $0100 );
8277: ('C3_KASHIDA','LongWord( $0200 );
8278: ('C3_LEXICAL','LongWord( $0400 );
8279: ('C3_ALPHA','LongWord( $8000 );
8280: ('C3_NOTAPPPLICABLE','LongInt'( 0 );
8281: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8282: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8283: Function synIsStringType( Value : Word ) : TStringType
8284: Function synGetEOL( Line : PChar ) : PChar
8285: Function synEncodeString( s : string ) : string
8286: Function synDecodeString( s : string ) : string
8287: Procedure synFreeAndNil( var Obj: TObject )
8288: Procedure synAssert( Expr : Boolean )
8289: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8290: TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8291: TReplaceFlags', 'set of TReplaceFlag )

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8292: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8293: Function synGetRValue( RGBValue : TColor) : byte
8294: Function synGetGValue( RGBValue : TColor) : byte
8295: Function synGetBValue( RGBValue : TColor) : byte
8296: Function synRGB( r, g, b : Byte) : Cardinal
8297: // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHighlighter
8298: // +'lighter; Attris:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8299: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8300: HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer) : Boolean
8301: Procedure synCalcFCS( const ABuf, ABufSize : Cardinal) : Word
8302: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
8303: AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8304: end;
8305: begin
8306: Procedure SIRegister_synautil(CL: TPSPascalCompiler);
8307: begin
8308: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM) : WORD
8309: Function GET_DEVICE_LPARAM( lParam : LPARAM) : WORD
8310: Function GET_KEYSTATE_LPARAM( lParam : LPARAM) : WORD
8311: begin
8312: Function STimeZoneBias : integer
8313: Function TimeZone : string
8314: Function Rfc822DateTime( t : TDateTime) : string
8315: Function CDatetime( t : TDateTime) : string
8316: Function SimpleCDatetime( t : TDateTime) : string
8317: Function AnsiCDatetime( t : TDateTime) : string
8318: Function GetMonthNumber( Value : String) : integer
8319: Function GetTimeFromStr( Value : string) : TDateTime
8320: Function GetDateMDYFromStr( Value : string) : TDateTime
8321: Function DecodeRFCDateTime( Value : string) : TDateTime
8322: Function GetUTTime : TDateTime
8323: Function SetUTTime( Newdt : TDateTime) : Boolean
8324: Function SGetTick : LongWord
8325: Function STickDelta( Tickold, TickNew : LongWord) : LongWord
8326: Function CodeInt( Value : Word) : Ansistring
8327: Function DecodeInt( const Value : Ansistring; Index : Integer) : Word
8328: Function CodeLongInt( Value : LongInt) : Ansistring
8329: Function DecodeLongInt( const Value : Ansistring; Index : Integer) : LongInt
8330: Function DumpExStr( const Buffer : Ansistring) : string
8331: Procedure Dump( const Buffer : AnsiString; DumpFile : string)
8332: Function TrimSPLeft( const S : string) : string
8333: Function TrimSPRight( const S : string) : string
8334: Function TrimSP( const S : string) : string
8335: Function SeparateLeft( const Value, Delimiter : string) : string
8336: Function SeparateRight( const Value, Delimiter : string) : string
8337: Function SGetParameter( const Value, Parameter : string) : string
8338: Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings)
8339: Procedure ParseParameters( Value : string; const Parameters : TStrings)
8340: Function IndexByBegin( Value : string; const List : TStrings) : integer
8341: Function GetEmailAddr( const Value : string) : string
8342: Function GetEmailDesc( Value : string) : string
8343: Function CStrToHex( const Value : Ansistring) : string
8344: Function CIntToBin( Value : Integer; Digits : Byte) : string
8345: Function CBinToInt( const Value : string) : Integer
8346: Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8347: Function CReplaceString( Value, Search, Replace : AnsiString) : AnsiString
8348: Function CRPosEx( const Sub, Value : string; From : integer) : Integer
8349: Function CRPos( const Sub, Value : String) : Integer
8350: Function FetchBin( var Value : string; const Delimiter : string) : string
8351: Function CFetch( var Value : string; const Delimiter : string) : string
8352: Function FetchEx( var Value : string; const Delimiter, Quotation : string) : string
8353: Function IsBinaryString( const Value : AnsiString) : Boolean
8354: Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString) : integer
8355: Procedure StringsTrim( const value : TStrings)
8356: Function PosFrom( const SubStr, Value : String; From : integer) : integer
8357: Function IncPoint( const p : __pointer; Value : integer) : __pointer
8358: Function GetBetween( const PairBegin, PairEnd, Value : string) : string
8359: Function CCountOfChar( const Value : string; aChr : char) : integer
8360: Function UnquoteStr( const Value : string; Quote : Char) : string
8361: Function QuoteStr( const Value : string; Quote : Char) : string
8362: Procedure HeadersToList( const Value : TStrings)
8363: Procedure ListToHeaders( const Value : TStrings)
8364: Function SwapBytes( Value : integer) : integer
8365: Function ReadStrFromStream( const Stream : TStream; len : integer) : AnsiString
8366: Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString)
8367: Function GetTempFile( const Dir, prefix : AnsiString) : AnsiString
8368: Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar): AnsiString
8369: Function CXorString( Indatal, Indata2 : AnsiString) : AnsiString
8370: Function NormalizeHeader( Value : TStrings; var Index : Integer) : string
8371: end;
8372: begin
8373: Procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8374: begin
8375: ('CrcBufSize','LongInt'( 2048);
8376: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
8377: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
8378: Function Adler32OfFile( FileName : AnsiString) : LongInt

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

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8465:             const CategoryManager: IUnknown = nil): HResult;
8466: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ');
8467:             const ADelete: Boolean = True): WideString;
8468: function XRTLPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8469: Function XRTLVariantAsString( const Value : Variant) : string
8470: Function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone) : TDateTime
8471: Function XRTLGetTimeZones : TXRTLTimeZones
8472: Function XFileTimeToDate( FileTime : TFileTime) : TDateTime
8473: Function DateToFileTime( DateTime : TDateTime) : TFileTime
8474: Function GMTNow : TDateTime
8475: Function GMTToLocalTime( GMT : TDateTime) : TDateTime
8476: Function LocalTimeToGMT( LocalTime : TDateTime) : TDateTime
8477: Procedure XRTLNotImplemented
8478: Procedure XTRTLRaiseError( E : Exception)
8479: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string)
8480:
8481:
8482: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8483: begin
8484:     SIRegister_IXRTLValue(CL);
8485:     SIRegister_TXRTLValue(CL);
8486:     //AddTypeS('PXRTLValueArray', '^TXRTLValueArray // will not work
8487:     AddTypes('TXRTLValueArray', 'array of IXRTLValue
8488:     Function XRTLValue( const AValue : Cardinal) : IXRTLValue;
8489:     Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal) : Cardinal;
8490:     Function XRTLGetAsCardinal( const IValue : IXRTLValue) : Cardinal;
8491:     Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal) : Cardinal;
8492:     Function XRTLValue1( const AValue : Integer) : IXRTLValue;
8493:     Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer) : Integer;
8494:     Function XRTLGetAsInteger( const IValue : IXRTLValue) : Integer;
8495:     Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer) : Integer;
8496:     Function XRTLValue2( const AValue : Int64) : IXRTLValue;
8497:     Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64) : Int64;
8498:     Function XRTLGetAsInt64( const IValue : IXRTLValue) : Int64;
8499:     Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64) : Int64;
8500:     Function XRTLValue3( const AValue : Single) : IXRTLValue;
8501:     Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single) : Single;
8502:     Function XRTLGetAsSingle( const IValue : IXRTLValue) : Single;
8503:     Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single) : Single;
8504:     Function XRTLValue4( const AValue : Double) : IXRTLValue;
8505:     Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double) : Double;
8506:     Function XRTLGetAsDouble( const IValue : IXRTLValue) : Double;
8507:     Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double) : Double;
8508:     Function XRTLValue5( const AValue : Extended) : IXRTLValue;
8509:     Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended) : Extended;
8510:     Function XRTLGetAsExtended( const IValue : IXRTLValue) : Extended;
8511:     Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended) : Extended;
8512:     Function XRTLValue6( const AValue : IInterface) : IXRTLValue;
8513:     Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface) : IInterface;
8514:     Function XRTLGetAsInterface( const IValue : IXRTLValue) : IInterface;
8515:     //Function XRTLGetAsInterface( const IValue : IXRTLValue; out Obj) : IInterface;
8516:     Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface) : IInterface;
8517:     Function XRTLValue7( const AValue : WideString) : IXRTLValue;
8518:     Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString) : WideString;
8519:     Function XRTLGetAsWideString( const IValue : IXRTLValue) : WideString;
8520:     Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString) : WideString;
8521:     Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean) : IXRTLValue;
8522:     Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject) : TObject;
8523:     Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean) : TObject;
8524:     Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
ADetachOwnership : Boolean) : TObject;
8525:     //Function XRTLValue9( const AValue : _Pointer) : IXRTLValue;
8526:     //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : _Pointer) : _Pointer;
8527:     //Function XRTLGetAsPointer( const IValue : IXRTLValue) : _Pointer;
8528:     //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer) : _Pointer;
8529:     Function XRTLValueV( const AValue : Variant) : IXRTLValue;
8530:     Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant) : Variant;
8531:     Function XRTLGetAsVariant( const IValue : IXRTLValue) : Variant;
8532:     Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant) : Variant;
8533:     Function XRTLValue10( const AValue : Currency) : IXRTLValue;
8534:     Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency) : Currency;
8535:     Function XRTLGetAsCurrency( const IValue : IXRTLValue) : Currency;
8536:     Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency) : Currency;
8537:     Function XRTLValue11( const AValue : Comp) : IXRTLValue;
8538:     Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp) : Comp;
8539:     Function XRTLGetAsComp( const IValue : IXRTLValue) : Comp;
8540:     Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp) : Comp;
8541:     Function XRTLValue12( const AValue : TClass) : IXRTLValue;
8542:     Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass) : TClass;
8543:     Function XRTLGetAsClass( const IValue : IXRTLValue) : TClass;
8544:     Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass) : TClass;
8545:     Function XRTLValue13( const AValue : TGUID) : IXRTLValue;
8546:     Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID) : TGUID;
8547:     Function XRTLGetAsGUID( const IValue : IXRTLValue) : TGUID;
8548:     Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID) : TGUID;
8549:     Function XRTLValue14( const AValue : Boolean) : IXRTLValue;
8550:     Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean) : Boolean;
8551:     Function XRTLGetAsBoolean( const IValue : IXRTLValue) : Boolean;
8552:     Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean) : Boolean

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

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8642: Function FixedRound( A : TFixed ) : Integer
8643: Function FixedSqr( Value : TFixed ) : TFixed
8644: Function FixedSqrtLP( Value : TFixed ) : TFixed
8645: Function FixedSqrtHP( Value : TFixed ) : TFixed
8646: Function FixedCombine( W, X, Y : TFixed ) : TFixed
8647: Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8648: Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8649: Function GRHypot( const X, Y : TFloat ) : TFloat;
8650: Function Hypot1( const X, Y : Integer ) : Integer;
8651: Function FastSqrt( const Value : TFloat ) : TFloat
8652: Function FastSqrtBab1( const Value : TFloat ) : TFloat
8653: Function FastSqrtBab2( const Value : TFloat ) : TFloat
8654: Function FastInvSqrt( const Value : Single ) : Single;
8655: Function MulDiv( Multipliand, Multiplier, Divisor : Integer ) : Integer
8656: Function GRIsPowerOf2( Value : Integer ) : Boolean
8657: Function PrevPowerOf2( Value : Integer ) : Integer
8658: Function NextPowerOf2( Value : Integer ) : Integer
8659: Function Average( A, B : Integer ) : Integer
8660: Function GRSign( Value : Integer ) : Integer
8661: Function FloatMod( x, y : Double ) : Double
8662: end;
8663:
8664: procedure SIRegister_GR32_LowLevel(CL: TPSPascalCompiler);
8665: begin
8666:   Function Clamp( const Value : Integer ) : Integer;
8667:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword )
8668:   Function StackAlloc( Size : Integer ) : Pointer
8669:   Procedure StackFree( P : Pointer )
8670:   Procedure Swap( var A, B : Pointer );
8671:   Procedure Swap1( var A, B : Integer );
8672:   Procedure Swap2( var A, B : TFixed );
8673:   Procedure Swap3( var A, B : TColor32 );
8674:   Procedure TestSwap( var A, B : Integer );
8675:   Procedure TestSwap1( var A, B : TFixed );
8676:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8677:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8678:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8679:   Function Constrain1( const Value, Lo, Hi : Single ) : Single;
8680:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer ) : Integer
8681:   Function GRMin( const A, B, C : Integer ) : Integer;
8682:   Function GRMax( const A, B, C : Integer ) : Integer;
8683:   Function Clamp( Value, Max : Integer ) : Integer;
8684:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8685:   Function Wrap( Value, Max : Integer ) : Integer;
8686:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8687:   Function Wrap3( Value, Max : Single ) : Single;;
8688:   Function WrapPow2( Value, Max : Integer ) : Integer;
8689:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8690:   Function Mirror( Value, Max : Integer ) : Integer;
8691:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8692:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8693:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8694:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8695:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8696:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8697:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8698:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8699:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8700:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8701:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ) : TWrapProcEx;
8702:   Function Div255( Value : Cardinal ) : Cardinal;
8703:   Function SAR_4( Value : Integer ) : Integer;
8704:   Function SAR_8( Value : Integer ) : Integer;
8705:   Function SAR_9( Value : Integer ) : Integer;
8706:   Function SAR_11( Value : Integer ) : Integer;
8707:   Function SAR_12( Value : Integer ) : Integer;
8708:   Function SAR_13( Value : Integer ) : Integer;
8709:   Function SAR_14( Value : Integer ) : Integer;
8710:   Function SAR_15( Value : Integer ) : Integer;
8711:   Function SAR_16( Value : Integer ) : Integer;
8712:   Function ColorSwap( WinColor : TColor ) : TColor32
8713: end;
8714:
8715: procedure SIRegister_GR32_Filters(CL: TPSPascalCompiler);
8716: begin
8717:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )'
8718:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8719:   Procedure CopyComponents1(Dst:TCustBmap32;DstX,
8720:     DstY:Int;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8721:     Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 );
8722:     Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean );
8723:     Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 );
8724:     Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8725:     Procedure InvertRGB( Dst, Src : TCustomBitmap32 );
8726:     Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean );
8727:     Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32 );
8728:     Function CreateBitmask( Components : TColor32Components ) : TColor32;
8729:     Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY: Integer; Src:TCustomBitmap32; SrcRect : TRect;
8730:       Bitmask : TColor32; LogicalOperator : TLogicalOperator );

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8729: Procedure
8730:   ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8731: end;
8732:
8733:
8734: procedure SIRegister_JclNTFS(CL: TPSPPascalCompiler);
8735: begin
8736:   AddClassN(FindClass('TOBJECT'), 'EJclNtfsError
8737:   AddTypes('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )
8738:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8739:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8740:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean;
8741:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState );
8742:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState);
8743:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState);
8744:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState:Recursive:Boolean;
8745:   //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc'
8746:   //+tedRangeBuffer; MoreData : Boolean; end
8747:   Function NtfsSetSparse( const FileName : string ) : Boolean;
8748:   Function NtfsZeroDataByHandle( const Handle: THandle; const First, Last : Int64 ) : Boolean;
8749:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean;
8750:   //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64;var
Ranges:TNtfsAllocRanges):Boolean;
8751:   //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
Index:Integer):TFileAllocatedRangeBuffer
8752:   Function NtfsSparseStreamsSupported( const Volume : string ) : Boolean;
8753:   Function NtfsGetSparse( const FileName : string ) : Boolean;
8754:   Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean;
8755:   Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean;
8756:   //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8757:   Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean;
8758:   Function NtfsReparsePointsSupported( const Volume : string ) : Boolean;
8759:   Function NtfsFileHasReparsePoint( const Path : string ) : Boolean;
8760:   Function NtfsIsFolderMountPoint( const Path : string ) : Boolean;
8761:   Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean;
8762:   Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean;
8763:   AddTypeS('TOpenLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
8764:   Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8765:   Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8766:   Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8767:   Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean;
8768:   Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean;
8769:   Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean;
8770:   Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean;
8771:   Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean;
8772:   AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8773:   +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile );
8774:   AddTypeS('TStreamIds', 'set of TStreamId
8775:   AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8776:   +': __Pointer; StreamIds : TStreamIds; end
8777:   AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8778:   +'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8779:   Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8780:   Function NtfsFindNextStream( var Data : TFindStreamData ) : Boolean;
8781:   Function NtfsFindStreamClose( var Data : TFindStreamData ) : Boolean;
8782:   Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean;
8783:   AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8784:   Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean;
8785:   Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
List:TStrings):Bool;
8786:   Function NtfsDeleteHardlinks( const FileName : string ) : Boolean;
8787:   Function JclAppInstances : TJclAppInstances;
8788:   Function JclAppInstances1( const UniqueAppIdGuidStr : string ) : TJclAppInstances;
8789:   Function ReadMessageCheck( var Message: TMessage;const IgnoredOriginatorWnd: HWND ) : TJclAppInstDataKind;
8790:   Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer );
8791:   Procedure ReadMessageString( const Message : TMessage; var S : string );
8792:   Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings );
8793:
8794:
8795: (*-----*)
8796: procedure SIRegister_JclGraphics(CL: TPSPPascalCompiler);
8797: begin
8798:   FindClass('TOBJECT'), 'EJclGraphicsError
8799:   TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8800:   TDynPointArray', 'array of TPoint
8801:   TDynDynPointArrayArray', 'array of TDynPointArray
8802:   TPointF', 'record X : Single; Y : Single; end
8803:   TDynPointArrayF', 'array of TPointF
8804:   TDrawMode2', '( dmOpaque, dmBlend )
8805:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8806:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8807:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8808:   TMatrix3d', 'record array[0..2,0..2] of extended end
8809:   TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8810:   TScanLine', 'array of Integer
8811:   TScanLines', 'array of TScanLine
8812:   TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8813:   TGradientDirection', '( gdVertical, gdHorizontal )

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8814: TPolyFillMode', '( fmAlternate, fmWinding )
8815: TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8816: TJclRegionBitmapMode', '( rmInclude, rmExclude )
8817: TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8818: SIRegister_TJclDesktopCanvas(CL);
8819: FindClass('TOBJECT'), 'TJclRegion
8820: SIRegister_TJclRegionInfo(CL);
8821: SIRegister_TJclRegion(CL);
8822: SIRegister_TJclThreadPersistent(CL);
8823: SIRegister_TJclCustomMap(CL);
8824: SIRegister_TJclBitmap32(CL);
8825: SIRegister_TJclByteMap(CL);
8826: SIRegister_TJclTransformation(CL);
8827: SIRegister_TJclLinearTransformation(CL);
8828: Procedure Stretch(NewWidth,
  NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8829: Procedure Stretchch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8830: Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8831: Function GetAntialiasedBitmap( const Bitmap : TBitmap ) : TBitmap
8832: Procedure BitmapToJpeg( const FileName : string )
8833: Procedure JpegToBitmap( const FileName : string )
8834: Function ExtractIconCount( const FileName : string ) : Integer
8835: Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8836: Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8837: Procedure
  BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8838: Procedure StretchTransfer(Dst:TJclBitmap32;
  DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8839: Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8840: Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)
8841: Function FillGradient( DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
  TGradientDirection ) : Boolean;
8842: Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
  RegionBitmapMode:TJclRegionBitmapMode) : HGRN
8843: Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND );
8844: Procedure ScreenShot1( bm : TBitmap );
8845: Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8846: Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8847: Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8848: Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8849: Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8850: Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8851: Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8852: Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8853: Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8854: Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32 )
8855: Procedure IntensityToAlpha( Dst, Src : TJclBitmap32 )
8856: Procedure Invert( Dst, Src : TJclBitmap32 )
8857: Procedure InvertRGB( Dst, Src : TJclBitmap32 )
8858: Procedure ColorToGrayscale( Dst, Src : TJclBitmap32 )
8859: Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8 )
8860: Procedure SetGamma( Gamma : Single )
8861: end;
8862:
8863: (*-----*)
8864: procedure SIRegister_JclSynch(CL: TPSPPascalCompiler);
8865: begin
8866: Function LockedAdd( var Target : Integer; Value : Integer ) : Integer
8867: Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer ) : Integer;
8868: Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer ) : Pointer;
8869: Function LockedDec( var Target : Integer ) : Integer
8870: Function LockedExchange( var Target : Integer; Value : Integer ) : Integer
8871: Function LockedExchangeAdd( var Target : Integer; Value : Integer ) : Integer
8872: Function LockedExchangeDec( var Target : Integer ) : Integer
8873: Function LockedExchangeInc( var Target : Integer ) : Integer
8874: Function LockedExchangeSub( var Target : Integer; Value : Integer ) : Integer
8875: Function LockedInc( var Target : Integer ) : Integer
8876: Function LockedSub( var Target : Integer; Value : Integer ) : Integer
8877: TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8878: SIRegister_TJclDispatcherObject(CL);
8879: Function WaitForMultipleObjects(const Objects:array of
  TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8880: Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
  TimeOut : Cardinal):Cardinal
8881: SIRegister_TJclCriticalSection(CL);
8882: SIRegister_TJclCriticalSectionEx(CL);
8883: SIRegister_TJclEvent(CL);
8884: SIRegister_TJclWaitableTimer(CL);
8885: SIRegister_TJclSemaphore(CL);
8886: SIRegister_TJclMutex(CL);
8887: POptexSharedInfo', '^TOptexSharedInfo // will not work
8888: TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8889: SIRegister_TJclOptex(CL);
8890: TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8891: TMrewThreadInfo', 'record Threadid : Longword; RecursionCount: Integer; Reader : Boolean; end
8892: TMrewThreadInfoArray', 'array of TMrewThreadInfo
8893: SIRegister_TJclMultiReadExclusiveWrite(CL);
8894: PMetSectSharedInfo', '^TMetSectSharedInfo // will not work
8895: TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '

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8896: + 'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8897: PMeteredSection', '^TMeteredSection // will not work
8898: TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8899: SIRegister_TJclMeteredSection(CL);
8900: TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8901: TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8902: TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8903: TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8904: Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection) : Boolean
8905: Function QueryEvent( Handle : THandle; var Info : TEventInfo) : Boolean
8906: Function QueryMutex( Handle : THandle; var Info : TMutexInfo) : Boolean
8907: Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts) : Boolean
8908: Function QueryTimer( Handle : THandle; var Info : TTimerInfo) : Boolean
8909: FindClass('TOBJECT'), EJclWin32HandleObjectError
8910: FindClass('TOBJECT'), EJclDispatcherObjectError
8911: FindClass('TOBJECT'), EJclCriticalSectionError
8912: FindClass('TOBJECT'), EJclEventError
8913: FindClass('TOBJECT'), EJclWaitableTimerError
8914: FindClass('TOBJECT'), EJclSemaphoreError
8915: FindClass('TOBJECT'), EJclMutexError
8916: FindClass('TOBJECT'), EJclMeteredSectionError
8917: end;
8918:
8919:
8920: //*****unit uPSI_mORMotReport;
8921: Procedure SetCurrentPrinterAsDefault
8922: Function CurrentPrinterName : string
8923: Function mCurrentPrinterPaperSize : string
8924: Procedure UseDefaultPrinter
8925:
8926: procedure SIRegisterTSTREAM(C1: TPSPascalCompiler);
8927: begin
8928:   with FindClass('TOBJECT', 'TStream') do begin
8929:     IsAbstract := True;
8930:     //RegisterMethod('Function Read( var Buffer, Count : Longint) : Longint
8931:     // RegisterMethod('Function Write( const Buffer, Count : Longint) : Longint
8932:     function Read(Buffer:String;Count:LongInt):LongInt
8933:     function Write(Buffer:String;Count:LongInt):LongInt
8934:     function ReadString(Buffer:String;Count:LongInt):LongInt      //FileStream
8935:     function WriteString(Buffer:String;Count:LongInt):LongInt
8936:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
8937:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
8938:     function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
8939:     function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
8940:
8941:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
8942:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
8943:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8944:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8945:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8946:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8947:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8948:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8949:
8950:     function Seek(Offset:LongInt;Origin:Word):LongInt
8951:     procedure ReadBuffer(Buffer:String;Count:LongInt)
8952:     procedure WriteBuffer(Buffer:String;Count:LongInt)
8953:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)';
8954:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)';
8955:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)';
8956:     Procedure WriteBufferFloat(Buffer:Double;Count:LongInt)';
8957:
8958:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
8959:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
8960:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8961:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8962:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8963:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8964:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8965:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8966:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8967:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8968:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8969:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8970:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8971:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8972:
8973:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8974:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8975:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)';
8976:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
8977: //READBUFFERAC
8978:   function InstanceSize: Longint
8979:   Procedure FixupResourceHeader( FixupInfo : Integer)
8980:   Procedure ReadResHeader
8981:
8982: {$IFDEF DELPHI4UP}
8983:   function CopyFrom(Source:TStream;Count:Int64):LongInt
8984: {$ELSE}

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8985:     function CopyFrom(Source:TStream;Count:Integer):LongInt
8986:     {$ENDIF}
8987:     RegisterProperty('Position', 'LongInt', iptrw);
8988:     RegisterProperty('Size', 'LongInt', iptrw);
8989:   end;
8990: end;
8991:
8992:
8993: { **** -----
8994:   Unit DMATH - Interface for DMATH.DLL
8995:   ----- }
8996: // see more docs/dmath_manual.pdf
8997:
8998: Function InitEval : Integer
8999: Procedure SetVariable( VarName : Char; Value : Float)
9000: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9001: Function Eval( ExpressionString : String) : Float
9002:
9003: unit dmath; //types are in built, others are external in DLL
9004: interface
9005: {$IFDEF DELPHI}
9006: uses
9007:   StdCtrls, Graphics;
9008: {$ENDIF}
9009: {
9010:   Types and constants
9011:   -----
9012: {$i types.inc}
9013: {
9014:   Error handling
9015:   -----
9016: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9017: { Sets the error code }
9018: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9019: { Sets error code and default function value }
9020: function MathErr : Integer; external 'dmath';
9021: { Returns the error code }
9022: {
9023:   Dynamic arrays
9024:   -----
9025: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9026: { Sets the auto-initialization of arrays }
9027: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9028: { Creates floating point vector V[0..Ub] }
9029: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9030: { Creates integer vector V[0..Ub] }
9031: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9032: { Creates complex vector V[0..Ub] }
9033: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9034: { Creates boolean vector V[0..Ub] }
9035: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9036: { Creates string vector V[0..Ub] }
9037: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9038: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9039: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9040: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9041: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9042: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9043: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9044: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9045: procedure DimStrMatrix(var A : TStringMatrix; Ub1, Ub2 : Integer); external 'dmath';
9046: { Creates string matrix A[0..Ub1, 0..Ub2] }
9047: {
9048:   Minimum, maximum, sign and exchange
9049:   -----
9050: function FMin(X, Y : Float) : Float; external 'dmath';
9051: { Minimum of 2 reals }
9052: function FMax(X, Y : Float) : Float; external 'dmath';
9053: { Maximum of 2 reals }
9054: function IMin(X, Y : Integer) : Integer; external 'dmath';
9055: { Minimum of 2 integers }
9056: function IMax(X, Y : Integer) : Integer; external 'dmath';
9057: { Maximum of 2 integers }
9058: function Sgn(X : Float) : Integer; external 'dmath';
9059: { Sign (returns 1 if X = 0) }
9060: function Sgn0(X : Float) : Integer; external 'dmath';
9061: { Sign (returns 0 if X = 0) }
9062: function DSgn(A, B : Float) : Float; external 'dmath';
9063: { Sgn(B) * |A| }
9064: procedure FSwap(var X, Y : Float); external 'dmath';
9065: { Exchange 2 reals }
9066: procedure ISwap(var X, Y : Integer); external 'dmath';
9067: { Exchange 2 integers }
9068: {
9069:   Rounding functions
9070:   -----
9071: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9072: { Rounds X to N decimal places }
9073: function Ceil(X : Float) : Integer; external 'dmath';

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

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

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

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

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9430:           Lb, Ub    : Integer;
9431:           MaxIter   : Integer;
9432:           Tol      : Float); external 'dmath';
9433: { Newton-Raphson method for a system of nonlinear equations }
9434: procedure Broyden(Equations : TEquations;
9435:           X, F      : TVector;
9436:           Lb, Ub    : Integer;
9437:           MaxIter   : Integer;
9438:           Tol      : Float); external 'dmath';
9439: { Broyden's method for a system of nonlinear equations }
9440: { -----
9441: Polynomials and rational fractions
9442: ----- }
9443: function Poly(X    : Float;
9444:           Coef : TVector;
9445:           Deg  : Integer) : Float; external 'dmath';
9446: { Evaluates a polynomial }
9447: function RFrac(X     : Float;
9448:           Coef   : TVector;
9449:           Deg1, Deg2 : Integer) : Float; external 'dmath';
9450: { Evaluates a rational fraction }
9451: function RootPol1(A, B : Float;
9452:           var X : Float) : Integer; external 'dmath';
9453: { Solves the linear equation A + B * X = 0 }
9454: function RootPol2(Coef : TVector;
9455:           Z      : TCompVector) : Integer; external 'dmath';
9456: { Solves a quadratic equation }
9457: function RootPol3(Coef : TVector;
9458:           Z      : TCompVector) : Integer; external 'dmath';
9459: { Solves a cubic equation }
9460: function RootPol4(Coef : TVector;
9461:           Z      : TCompVector) : Integer; external 'dmath';
9462: { Solves a quartic equation }
9463: function RootPol(Coef : TVector;
9464:           Deg   : Integer;
9465:           Z      : TCompVector) : Integer; external 'dmath';
9466: { Solves a polynomial equation }
9467: function SetRealRoots(Deg : Integer;
9468:           Z      : TCompVector;
9469:           Tol   : Float) : Integer; external 'dmath';
9470: { Set the imaginary part of a root to zero }
9471: procedure SortRoots(Deg : Integer;
9472:           Z      : TCompVector); external 'dmath';
9473: { Sorts the roots of a polynomial }
9474: { -----
9475: Numerical integration and differential equations
9476: ----- }
9477: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9478: { Integration by trapezoidal rule }
9479: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9480: { Integral from A to B }
9481: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9482: { Integral from 0 to B }
9483: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9484: { Convolution product at time T }
9485: procedure ConvTrap(Func1,Func2:TFunc; T,Y:TVector; N:Integer);external 'dmath';
9486: { Convolution by trapezoidal rule }
9487: procedure RKF45(F          : TDiffEqs;
9488:           Neqn       : Integer;
9489:           Y, Yp      : TVector;
9490:           var T       : Float;
9491:           Tout, RelErr, AbsErr : Float;
9492:           var Flag    : Integer); external 'dmath';
9493: { Integration of a system of differential equations }
9494: { -----
9495: Fast Fourier Transform
9496: ----- }
9497: procedure FFT(NumSamples      : Integer;
9498:           InArray, OutArray : TCompVector); external 'dmath';
9499: { Fast Fourier Transform }
9500: procedure IFFT(NumSamples    : Integer;
9501:           InArray, OutArray : TCompVector); external 'dmath';
9502: { Inverse Fast Fourier Transform }
9503: procedure FFT_Integer(NumSamples : Integer;
9504:           RealIn, ImagIn : TIntVector;
9505:           OutArray      : TCompVector); external 'dmath';
9506: { Fast Fourier Transform for integer data }
9507: procedure FFT_Integer_Cleanup; external 'dmath';
9508: { Clear memory after a call to FFT_Integer }
9509: procedure CalcFrequency(NumSamples,
9510:           FrequencyIndex : Integer;
9511:           InArray       : TCompVector;
9512:           var FFT       : Complex); external 'dmath';
9513: { Direct computation of Fourier transform }
9514: { -----
9515: Random numbers
9516: ----- }
9517: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9518: { Select generator }
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9519: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9520: { Initialize generator }
9521: function IRanGen : RNG_IntType; external 'dmath';
9522: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9523: function IRanGen31 : RNG_IntType; external 'dmath';
9524: { 31-bit random integer in [0 .. 2^31 - 1] }
9525: function RanGen1 : Float; external 'dmath';
9526: { 32-bit random real in [0,1] }
9527: function RanGen2 : Float; external 'dmath';
9528: { 32-bit random real in [0,1] }
9529: function RanGen3 : Float; external 'dmath';
9530: { 32-bit random real in (0,1) }
9531: function RanGen53 : Float; external 'dmath';
9532: { 53-bit random real in [0,1] }
9533: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9534: { Initializes the 'Multiply with carry' random number generator }
9535: function IRanMWC : RNG_IntType; external 'dmath';
9536: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9537: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9538: { Initializes Mersenne Twister generator with a seed }
9539: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9540:                           KeyLength : Word); external 'dmath';
9541: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9542: function IRanMT : RNG_IntType; external 'dmath';
9543: { Random integer from MT generator }
9544: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9545: { Initializes the UVAG generator with a string }
9546: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9547: { Initializes the UVAG generator with an integer }
9548: function IRanUVAG : RNG_IntType; external 'dmath';
9549: { Random integer from UVAG generator }
9550: function RanGaussStd : Float; external 'dmath';
9551: { Random number from standard normal distribution }
9552: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9553: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9554: procedure RanMult(M : TVector; L : TMatrix;
9555:                      Lb, Ub : Integer;
9556:                      X : TVector); external 'dmath';
9557: { Random vector from multinormal distribution (correlated) }
9558: procedure RanMultIndep(M, S : TVector;
9559:                          Lb, Ub : Integer;
9560:                          X : TVector); external 'dmath';
9561: { Random vector from multinomial distribution (uncorrelated) }
9562: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9563: { Initializes Metropolis-Hastings parameters }
9564: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9565: { Returns Metropolis-Hastings parameters }
9566: procedure Hastings(Func : TFuncNVar;
9567:                        T : Float;
9568:                        X : TVector;
9569:                        V : TMatrix;
9570:                        Lb, Ub : Integer;
9571:                        Xmat : TMatrix;
9572:                        X_min : TVector;
9573:                        var F_min : Float); external 'dmath';
9574: { Simulation of a probability density function by Metropolis-Hastings }
9575: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9576: { Initializes Simulated Annealing parameters }
9577: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9578: { Initializes log file }
9579: procedure SimAnn(Func : TFuncNVar;
9580:                      X, Xmin, Xmax : TVector;
9581:                      Lb, Ub : Integer;
9582:                      var F_min : Float); external 'dmath';
9583: { Minimization of a function of several var. by simulated annealing }
9584: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9585: { Initializes Genetic Algorithm parameters }
9586: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9587: { Initializes log file }
9588: procedure GenAlg(Func : TFuncNVar;
9589:                      X, Xmin, Xmax : TVector;
9590:                      Lb, Ub : Integer;
9591:                      var F_min : Float); external 'dmath';
9592: { Minimization of a function of several var. by genetic algorithm }
9593: { -----
9594:   Statistics
9595:   -----
9596: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9597: { Mean of sample X }
9598: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9599: { Minimum of sample X }
9600: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9601: { Maximum of sample X }
9602: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9603: { Median of sample X }
9604: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9605: { Standard deviation estimated from sample X }
9606: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9607: { Standard deviation of population }

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9608: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9609: { Correlation coefficient }
9610: function Skewness(X : TVector; Lb, Ub : Integer; M, Sigma: Float): Float; external 'dmath';
9611: { Skewness of sample X }
9612: function Kurtosis(X : TVector; Lb, Ub : Integer; M, Sigma: Float): Float; external 'dmath';
9613: { Kurtosis of sample X }
9614: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9615: { Quick sort (ascending order) }
9616: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9617: { Quick sort (descending order) }
9618: procedure Interval(X1, X2 : Float;
9619:                      MinDiv, MaxDiv : Integer;
9620:                      var Min, Max, Step : Float); external 'dmath';
9621: { Determines an interval for a set of values }
9622: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9623:                       var XMin, XMax, XStep : Float); external 'dmath';
9624: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9625: procedure StudIndep(N1, N2 : Integer;
9626:                       M1, M2, S1, S2 : Float;
9627:                       var T : Float;
9628:                       var DoF : Integer); external 'dmath';
9629: { Student t-test for independent samples }
9630: procedure StudPaired(X, Y : TVector;
9631:                        Lb, Ub : Integer;
9632:                        var T : Float;
9633:                        var DoF : Integer); external 'dmath';
9634: { Student t-test for paired samples }
9635: procedure AnOVal(Ns : Integer;
9636:                      N : TIntVector;
9637:                      M, S : TVector;
9638:                      var V_f, V_r, F : Float;
9639:                      var DoF_f, DoF_r : Integer); external 'dmath';
9640: { One-way analysis of variance }
9641: procedure AnOVA2(NA, NB, Nobs : Integer;
9642:                      M, S : TMatrix;
9643:                      V, F : TVector;
9644:                      DoF : TIntVector); external 'dmath';
9645: { Two-way analysis of variance }
9646: procedure Snedecor(N1, N2 : Integer;
9647:                      S1, S2 : Float;
9648:                      var F : Float;
9649:                      var DoF1, DoF2 : Integer); external 'dmath';
9650: { Snedecor's F-test (comparison of two variances) }
9651: procedure Bartlett(Ns : Integer;
9652:                      N : TIntVector;
9653:                      S : TVector;
9654:                      var Khi2 : Float;
9655:                      var DoF : Integer); external 'dmath';
9656: { Bartlett's test (comparison of several variances) }
9657: procedure Mann_Whitney(N1, N2 : Integer;
9658:                          XI, X2 : TVector;
9659:                          var U, Eps : Float); external 'dmath';
9660: { Mann-Whitney test }
9661: procedure Wilcoxon(X, Y : TVector;
9662:                       Lb, Ub : Integer;
9663:                       var Ndiff : Integer;
9664:                       var T, Eps : Float); external 'dmath';
9665: { Wilcoxon test }
9666: procedure Kruskal_Wallis(Ns : Integer;
9667:                           N : TIntVector;
9668:                           X : TMatrix;
9669:                           var H : Float;
9670:                           var DoF : Integer); external 'dmath';
9671: { Kruskal-Wallis test }
9672: procedure Khi2_Conform(N_cls : Integer;
9673:                           N_estim : Integer;
9674:                           Obs : TIntVector;
9675:                           Calc : TVector;
9676:                           var Khi2 : Float;
9677:                           var DoF : Integer); external 'dmath';
9678: { Khi-2 test for conformity }
9679: procedure Khi2_Indep(N_lin : Integer;
9680:                           N_col : Integer;
9681:                           Obs : TIntMatrix;
9682:                           var Khi2 : Float;
9683:                           var DoF : Integer); external 'dmath';
9684: { Khi-2 test for independence }
9685: procedure Woolf_Conform(N_cls : Integer;
9686:                           N_estim : Integer;
9687:                           Obs : TIntVector;
9688:                           Calc : TVector;
9689:                           var G : Float;
9690:                           var DoF : Integer); external 'dmath';
9691: { Woolf's test for conformity }
9692: procedure Woolf_Indep(N_lin : Integer;
9693:                           N_col : Integer;
9694:                           Obs : TIntMatrix;
9695:                           var G : Float;
9696:                           var DoF : Integer); external 'dmath';

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

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

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

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

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10053:           M           : TVector); external 'dmath';
10054: { Computes the mean vector M from matrix X }
10055: procedure VecSD(X          : TMatrix;
10056:                     Lb, Ub, Nvar : Integer;
10057:                     M, S           : TVector); external 'dmath';
10058: { Computes the vector of standard deviations S from matrix X }
10059: procedure MatVarCov(X       : TMatrix;
10060:                         Lb, Ub, Nvar : Integer;
10061:                         M             : TVector;
10062:                         V             : TMatrix); external 'dmath';
10063: { Computes the variance-covariance matrix V from matrix X }
10064: procedure MatCorrel(V      : TMatrix;
10065:                         Nvar : Integer;
10066:                         R             : TMatrix); external 'dmath';
10067: { Computes the correlation matrix R from the var-cov matrix V }
10068: procedure PCA(R         : TMatrix;
10069:                     Nvar : Integer;
10070:                     Lambda : TVector;
10071:                     C, Rc   : TMatrix); external 'dmath';
10072: { Performs a principal component analysis of the correlation matrix R }
10073: procedure ScaleVar(X     : TMatrix;
10074:                         Lb, Ub, Nvar : Integer;
10075:                         M, S           : TVector;
10076:                         Z             : TMatrix); external 'dmath';
10077: { Scales a set of variables by subtracting means and dividing by SD's }
10078: procedure PrinFac(Z     : TMatrix;
10079:                         Lb, Ub, Nvar : Integer;
10080:                         C, F           : TMatrix); external 'dmath';
10081: { Computes principal factors }
10082: { -----
10083:   Strings
10084:   ----- }
10085: function LTrim(S : String) : String; external 'dmath';
10086: { Removes leading blanks }
10087: function RTrim(S : String) : String; external 'dmath';
10088: { Removes trailing blanks }
10089: function Trim(S : String) : String; external 'dmath';
10090: { Removes leading and trailing blanks }
10091: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10092: { Returns a string made of character C repeated N times }
10093: function RFill(S : String; L : Byte) : String; external 'dmath';
10094: { Completes string S with trailing blanks for a total length L }
10095: function LFill(S : String; L : Byte) : String; external 'dmath';
10096: { Completes string S with leading blanks for a total length L }
10097: function CFill(S : String; L : Byte) : String; external 'dmath';
10098: { Centers string S on a total length L }
10099: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10100: { Replaces in string S all the occurrences of C1 by C2 }
10101: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10102: { Extracts a field from a string }
10103: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10104: { Parses a string into its constitutive fields }
10105: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10106: { Sets the numeric format }
10107: function FloatToStr(X : Float) : String; external 'dmath';
10108: { Converts a real to a string according to the numeric format }
10109: function IntStr(N : LongInt) : String; external 'dmath';
10110: { Converts an integer to a string }
10111: function CompStr(Z : Complex) : String; external 'dmath';
10112: { Converts a complex number to a string }
10113: {$IFDEF DELPHI}
10114: function StrDec(S : String) : String; external 'dmath';
10115: { Set decimal separator to the symbol defined in SysUtils }
10116: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10117: { Test if a string represents a number and returns it in X }
10118: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10119: { Reads a floating point number from an Edit control }
10120: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10121: { Writes a floating point number in a text file }
10122: {$ENDIF}
10123: { -----
10124:   BGI / Delphi graphics
10125:   ----- }
10126: function InitGraphics
10127: {$IFDEF DELPHI}
10128: (Width, Height : Integer) : Boolean;
10129: {$ELSE}
10130: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10131: { Enters graphic mode }
10132: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10133:                         X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10134: { Sets the graphic window }
10135: procedure SetOxScale(Scale           : TScale;
10136:                         OXMin, OXMax, OXStep : Float); external 'dmath';
10137: { Sets the scale on the Ox axis }
10138: procedure SetOyScale(Scale           : TScale;
10139:                         OYMin, OYMax, OYStep : Float); external 'dmath';
10140: { Sets the scale on the Oy axis }
10141: procedure GetOxScale(var Scale      : TScale;

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

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

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10320: Function Brand( P : extended ) : boolean
10321: Function Nrand : extended
10322: end;
10323;
10324: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10325: begin
10326:   Function Endian( x : LongWord ) : LongWord
10327:   Function Endian64( x : Int64 ) : Int64
10328:   Function spRol( x : LongWord; y : Byte ) : LongWord
10329:   Function spRor( x : LongWord; y : Byte ) : LongWord
10330:   Function Ror64( x : Int64; y : Byte ) : Int64
10331: end;
10332;
10333: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10334: begin
10335:   Procedure ClearModules
10336:   Procedure ReadMapFile( Fname : string )
10337:   Function AddressInfo( Address : dword ) : string
10338: end;
10339;
10340: procedure SIRegister_LibTar(CL: TPSPascalCompiler);
10341: begin
10342:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwner
10343:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWrite
10344:   +'teByOther, tpExecuteByOther )
10345:   TTarPermissions', 'set of TTarPermission
10346:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10347:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;
10348:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10349:   TTarModes', 'set of TTarMode
10350:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDa'
10351:   +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10352:   +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING; '
10353:   +' ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE
10354:   +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10355:   SIRegister_TTarArchive(CL);
10356:   SIRegister_TTarWriter(CL);
10357:   Function PermissionString( Permissions : TTarPermissions ) : STRING
10358:   Function ConvertFilename( Filename : STRING ) : STRING
10359:   Function FileTimeGMT( FileName : STRING ) : TDateTime;
10360:   Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10361:   Procedure ClearDirRec( var DirRec : TTarDirRec )
10362: end;
10363;
10364;
10365: //*****unit uPSI_TlHelp32;
10366: procedure SIRegister_TlHelp32(CL: TPSPascalCompiler);
10367: begin
10368:   Const ('MAX_MODULE_NAME32','LongInt'( 255 );
10369:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD ) : THandle
10370:   Const ('TH32CS_SNAPHEAPLIST','LongWord( $00000001 );
10371:   Const ('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002 );
10372:   Const ('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004 );
10373:   Const ('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008 );
10374:   Const ('TH32CS_INHERIT','LongWord').SetUInt( $80000000 );
10375:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;dwFlags:DWORD;end ';
10376:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10377:   AddTypes('THeapList32', 'tagHEAPLIST32
10378:   Const ('HF32_DEFAULT','LongInt'( 1 );
10379:   Const ('HF32_SHARED','LongInt'( 2 );
10380:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10381:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10382:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10383:   +'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10384:   +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10385:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10386:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10387:   Const ('LF32_FIXED','LongWord').SetUInt( $00000001 );
10388:   Const ('LF32_FREE','LongWord').SetUInt( $00000002 );
10389:   Const ('LF32_MOVEABLE','LongWord').SetUInt( $00000004 );
10390:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD ) : BOOL
10391:   Function Heap32Next( var lphe : THeapEntry32 ) : BOOL
10392:   DWORD; var lpNumberOfBytesRead : DWORD ) : BOOL
10393:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10394:   +'ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10395:   +'aPri : Longint; dwFlags : DWORD; end
10396:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10397:   AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10398:   Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10399:   Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10400: end;
10401:   Const ('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10402:   Const ('EW_REBOOTSYSTEM','LongWord( $0043 );
10403:   Const ('EW_EXITANDEXECAPP','LongWord( $0044 );
10404:   Const ('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD( $80000000 ) );
10405:   Const ('EWX_LOGOFF','LongInt'( 0 );
10406:   Const ('EWX_SHUTDOWN','LongInt'( 1 );
10407:   Const ('EWX_REBOOT','LongInt'( 2 );
10408:   Const ('EWX_FORCE','LongInt'( 4 );

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10409: Const ('EWX_POWEROFF','LongInt'( 8);
10410: Const ('EWX_FORCEIFHUNG','LongWord').SetUInt( $10);
10411: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10412: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10413: Function GET_MOUSEKEY_LPARAM( const lParam : LongInt ) : Word
10414: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10415: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10416: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10417: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10418: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10419: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10420: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10421: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10422: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
10423: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
10424: Function GetDesktopWindow : HWND
10425: Function GetParent( hWnd : HWND ) : HWND
10426: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND
10427: Function GetTopWindow( hWnd : HWND ) : HWND
10428: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND
10429: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND
10430: //Delphi DFM
10431: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10432: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string ) : integer
10433: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10434: function GetHighlightersFilter(AHighlighters: TStringList): string;
10435: function GetHighlighterFromfileExt(AHighlighters: TStringList; Extension: string): TSynCustomHighlighter;
10436: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL
10437: Function OpenIcon( hWnd : HWND ) : BOOL
10438: Function CloseWindow( hWnd : HWND ) : BOOL
10439: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL
10440: Function SetWindowPos(hWnd:HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UInt) : BOOL
10441: Function IsWindowVisible( hWnd : HWND ) : BOOL
10442: Function IsIconic( hWnd : HWND ) : BOOL
10443: Function AnyPopup : BOOL
10444: Function BringWindowToFront( hWnd : HWND ) : BOOL
10445: Function IsZoomed( hWnd : HWND ) : BOOL
10446: Function IsWindow( hWnd : HWND ) : BOOL
10447: Function IsMenu( hMenu : HMENU ) : BOOL
10448: Function IsChild( hWndParent, hWnd : HWND ) : BOOL
10449: Function DestroyWindow( hWnd : HWND ) : BOOL
10450: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL
10451: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL
10452: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL
10453: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL
10454: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10455: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10456: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10457:
10458: procedure SIRегистre_IDECmdLine(CL: TPSPascalCompiler);
10459: begin
10460:   const ('ShowSetupDialogOptLong','String '--setup
10461: PrimaryConfPathOptLong','String '--primary-config-path=
10462: PrimaryConfPathOptShort','String '--pcp=
10463: SecondaryConfPathOptLong','String '--secondary-config-path=
10464: SecondaryConfPathOptShort','String '--scp=
10465: NoSplashScreenOptLong','String '--no-splash-screen
10466: NoSplashScreenOptShort','String '--nsc
10467: StartedByStartLazarusOpt','String '--started-by-startlazarus
10468: SkipLastProjectOpt','String '--skip-last-project
10469: DebugLogOpt','String '--debug-log=
10470: DebugLogOptEnable','String '--debug-enable=
10471: LanguageOpt','String '--language=
10472: LazarusDirOpt','String '--lazarusdir=
10473: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10474: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean ) : string
10475: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string
10476: Function IsHelpRequested : Boolean
10477: Function IsVersionRequested : boolean
10478: Function GetLanguageSpecified : string
10479: Function ParamIsOption( ParamIndex : integer; const Option : string ) : boolean
10480: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10481: Procedure ParseNoGuiCmdLineParams
10482: Function ExtractCmdLineFilenames : TStrings
10483: end;
10484:
10485:
10486: procedure SIRегистre_LazFileUtils(CL: TPSPascalCompiler);
10487: begin
10488:   Function CompareFilenames( const Filenam1, Filenam2 : string ) : integer
10489:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string ) : integer
10490:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean ) : integer;
10491:   Function CompareFileExt1( const Filenam, Ext : string ) : integer;
10492:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string ) : integer
10493:   Function CompareFilenames(PChar;Len1:integer; Filenam2:PChar;Len2:integer):integer
10494:   Function CompareFilenamesP( Filenam1, Filenam2 : PChar; IgnoreCase : boolean ) : integer
10495:   Function DirPathExists( DirectoryName : string ) : boolean
10496:   Function DirectoryIsWritable( const DirectoryName : string ) : boolean
10497:   Function ExtractFileNameOnly( const Afilename : string ) : string

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

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10585: procedure SIRegister_JvShellHook(CL: TPSPPascalCompiler);
10586: begin
10587:   //PShellHookInfo', '^TShellHookInfo // will not work
10588:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10589:   SHELLHOOKINFO', 'TShellHookInfo
10590:   LPSHELLHOOKINFO', 'PShellHookInfo
10591:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10592:   SIRegister_TJvShellHook(CL);
10593:   Function InitJvShellHooks : Boolean
10594:   Procedure UnInitJvShellHooks
10595: end;
10596:
10597: procedure SIRegister_JvExControls(CL: TPSPPascalCompiler);
10598: begin
10599:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10600:   '+, dcHasSelSel, dcWantTab, dcNative )
10601:   TDlgCodes', 'set of TDlgCode
10602:   'dcWantMessage', ' dcWantAllKeys);
10603:   SIRegister_IJvExControl(CL);
10604:   SIRegister_IJvDenySubClassing(CL);
10605:   SIRegister_TStructPtrMessage(CL);
10606:   Procedure SetDotNetBarColors( FocusedColor, UnfocusedColor : TColor)
10607:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10608:   Procedure DrawDotNetBar( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10609:   Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10610:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10611:   Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10612:   Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10613:   Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10614:   Function GetFocusedControl( AControl : TControl ) : TWinControl
10615:   Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10616:   Function DlgCodesToDlcg( Value : TDlgCodes ) : Longint
10617:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10618:   Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10619:   SIRegister_IJvExControl(CL);
10620:   SIRegister_IJvExWinControl(CL);
10621:   SIRegister_IJvExCustomControl(CL);
10622:   SIRegister_IJvExGraphicControl(CL);
10623:   SIRegister_IJvExHintWindow(CL);
10624:   SIRegister_IJvExPubGraphicControl(CL);
10625: end;
10626:
10627: (*-----*)
10628: procedure SIRegister_EncdDecd(CL: TPSPPascalCompiler);
10629: begin
10630:   Procedure EncodeStream( Input, Output : TStream)
10631:   Procedure DecodeStream( Input, Output : TStream)
10632:   Function EncodeString1( const Input : string ) : string
10633:   Function DecodeString1( const Input : string ) : string
10634: end;
10635:
10636: (*-----*)
10637: procedure SIRegister_SockAppReg(CL: TPSPPascalCompiler);
10638: begin
10639:   SIRegister_TWebAppRegInfo(CL);
10640:   SIRegister_TWebAppRegList(CL);
10641:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10642:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10643:   Procedure UnregisterWebApp( const AProgID : string)
10644:   Function FindRegisteredWebApp( const AProgID : string ) : string
10645:   Function CreateRegistry( InitializeNewFile : Boolean ) : TCustomIniFile
10646:   'sUDPPort','String 'UDPPort
10647: end;
10648:
10649: procedure SIRegister_PJEnvVars(CL: TPSPPascalCompiler);
10650: begin
10651:   // TStringDynArray', 'array of string
10652:   Function GetEnvVarValue( const VarName : string ) : string
10653:   Function SetEnvVarValue( const VarName, VarValue : string ) : Integer
10654:   Function DeleteEnvVar( const VarName : string ) : Integer
10655:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int );
10656:   Function ExpandEnvVars( const Str : string ) : string
10657:   Function GetAllEnvVars( const Vars : TStrings ) : Integer
10658:   Procedure GetAllEnvVarNames( const Names : TStrings );
10659:   Function GetAllEnvVarNames1 : TStringDynArray;
10660:   Function EnvBlockSize : Integer
10661:   TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject)
10662:   SIRegister_TPJEnvVarsEnumerator(CL);
10663:   SIRegister_TPJEnvVars(CL);
10664:   FindClass('TOBJECT'), 'EPJEnvVars
10665:   FindClass('TOBJECT'), 'EPJEnvVars
10666:   //Procedure Register
10667: end;
10668:
10669: (*-----*)
10670: procedure SIRegister_PJConsoleApp(CL: TPSPPascalCompiler);
10671: begin
10672:   'cOneSecInMS', 'LongInt'( 1000 );

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

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10762: SIRegister_TlkJSONObjectmethod(CL);
10763: TlkHashItem', 'record hash : cardinal; index : Integer; end
10764: TlkHashFunction', 'Function ( const ws : WideString ) : cardinal
10765: SIRegister_TlkHashTable(CL);
10766: SIRegister_TlkBalTree(CL);
10767: SIRegister_TlkJSONObject(CL);
10768: SIRegister_TlkJSON(CL);
10769: SIRegister_TlkJSONstreamed(CL);
10770: Function GenerateReadableText( vObj : TlkJSONObjectbase; var vLevel : Integer): string
10771: end;
10772:
10773: procedure SIRegister_ZSysUtils(CL: TPSPPascalCompiler);
10774: begin
10775:   TZListSortCompare', 'Function (Item1, Item2 : TObject): Integer
10776:   SIRegister_TZSortedList(CL);
10777:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10778:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10779: //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10780: //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10781: Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10782: Function StartsWith1( const Str, SubStr : RawByteString) : Boolean;
10783: Function EndsWith( const Str, SubStr : WideString) : Boolean;
10784: Function EndsWith1( const Str, SubStr : RawByteString) : Boolean;
10785: Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10786: Function SQLStrToFloatDef1( Str : string; Def : Extended) : Extended;
10787: Function SQLStrToFloat( const Str : AnsiString) : Extended;
10788: //Function BufferToStr( Buffer : PWideChar; Length : LongInt ) : string;
10789: //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt ) : string;
10790: Function BufferToBytes( Buffer : TObject; Length : LongInt ) : TByteDynArray
10791: Function StrToBoolEx( Str : string) : Boolean
10792: Function BoolToStrEx( Bool : Boolean) : String
10793: Function IsIpAddr( const Str : string) : Boolean
10794: Function zSplitString( const Str, Delimiters : string) : TStrings
10795: Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10796: Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10797: Function ComposeString( List : TStrings; const Delimiter : string) : string
10798: Function FloatToSQLStr( Value : Extended) : string
10799: Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10800: Function SplitStringEx( const Str, Delimiter : string) : TStrings
10801: Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10802: Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10803: Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10804: Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10805: Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10806: Function StrToBytes3( const Value : WideString) : TByteDynArray;
10807: Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10808: Function BytesToVar( const Value : TByteDynArray) : Variant
10809: Function VarToBytes( const Value : Variant) : TByteDynArray
10810: Function AnsiSQLDateToDate( const Value : string) : TDateTime
10811: Function TimestampStrToDate( const Value : string) : TDateTime
10812: Function DateToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10813: Function EncodeCString( const Value : string) : string
10814: Function DecodeCString( const Value : string) : string
10815: Function zReplaceChar( const Source, Target : Char; const Str : string) : string
10816: Function MemPas( Buffer : PChar; Length : LongInt) : string
10817: Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10818: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10819: Function FormatsSQLVersion( const SQLVersion : Integer ) : String
10820: Function ZStrToFloat( Value : AnsiChar ) : Extended;
10821: Function ZStrToFloat1( Value : AnsiString ) : Extended;
10822: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString );
10823: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString );
10824: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String );
10825: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String );
10826: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString );
10827: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString );
10828: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString );
10829: end;
10830:
10831: unit uPSI_ZEncoding;
10832: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word ) : RawByteString
10833: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word ) : String
10834: Function ZRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10835: Function ZUnicodeToRaw( const US : WideString; CP : Word ) : RawByteString
10836: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10837: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10838: Function ZConvertAnsiToUTF8( const Src : AnsiString ) : UTF8String
10839: Function ZConvertUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10840: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10841: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10842: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10843: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10844: Function ZConvertStringToRawWithAutoEncode( const Src:String;const StringCP,RawCP:Word):RawByteString;
10845: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String
10846: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10847: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP : Word): UTF8String
10848: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString

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

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

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

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11108: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11109: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11110: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11111: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11112: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11113: Function VectorTransform1( V : TVector3f; M : TMatrixGL ) : TVector3f;
11114: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11115: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11116: Function MakeAffineVector( V : array of Single ) : TAffineVector
11117: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11118: Function MakeVector( V : array of Single ) : TVectorGL
11119: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11120: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11121: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11122: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11123: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11124: Function ArcCosGL( X : Extended ) : Extended
11125: Function ArcSinGL( X : Extended ) : Extended
11126: Function ArcTan2GL( Y, X : Extended ) : Extended
11127: Function CoTanGL( X : Extended ) : Extended
11128: Function DegToRadGL( Degrees : Extended ) : Extended
11129: Function RadToDegGL( Radians : Extended ) : Extended
11130: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11131: Function TanGL( X : Extended ) : Extended
11132: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11133: Function Turn1( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11134: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11135: Function Pitch1( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11136: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11137: Function Roll1( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11138: end;
11139:
11140:
11141: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11142: begin
11143:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11144:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11145:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11146:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11147:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11148:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11149:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11150:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11151:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11152:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11153:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11154:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11155:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11156:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11157:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11158:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11159:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11160:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11161:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11162:   AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser
11163:             + 'RunOnce, ekServiceRun, ekServiceRunOnce )'
11164:   AddClassN(FindClass('TOBJECT'),'EJclRegistryError'
11165:   Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11166:   Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11167:   Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
11168: Items:TStrings):Bool;
11169:   Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
11170: SaveTo:TStrings):Bool;
11171:   Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11172: end;
11173: procedure SIRegister_JclCOM(CL: TPSPascalCompiler);
11174: begin
11175:   CLSID_StdComponentCategoriesMgr', 'TGUID '{0002E005-0000-0000-C000-000000000046}
11176:   CATID_SafeForInitializing', 'TGUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11177:   CATID_SafeForScripting', 'TGUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11178:   icMAX_CATEGORY_DESC_LEN', 'LongInt'( 128 );
11179:   FindClass('TOBJECT'), 'EInvalidParam
11180:   Function IsDCOMInstalled : Boolean
11181:   Function IsDCOMEabled : Boolean
11182:   Function GetDCOMVersion : string
11183:   Function GetMDACVersion : string
11184:   Function GetMDACVersion2 : string
11185:   Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11186: VarArray:OleVariant):HRESULT;
11187:   Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var
11188: stm:IStream):HRESULT;
11189:   Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11190: VarArray:OleVariant):HRESULT;
11191:   Function CreateComponentCategory( const CatID : TGUID; const sDescription : string ) : HRESULT
11192:   Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HRESULT
11193:   Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HRESULT

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11192: Function ResetIStreamToStart( Stream : IStream ) : Boolean
11193: Function SizeOfIStreamContents( Stream : IStream ) : Largeint
11194: Function StreamToVariantArray( Stream : TStream ) : OleVariant;
11195: Function StreamToVariantArray1( Stream : IStream ) : OleVariant;
11196: Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream );
11197: Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream );
11198: end;
11199:
11200:
11201: procedure SIRегистer_JclUnitConv_mX2(CL: TPSPascalCompiler);
11202: begin
11203:   Const ('CelsiusFreezingPoint','Extended').setExtended( 0.0 );
11204:   FahrenheitFreezingPoint,'Extended').setExtended( 32.0 );
11205:   KelvinFreezingPoint,'Extended').setExtended( 273.15 );
11206:   CelsiusAbsoluteZero,'Extended').setExtended( - 273.15 );
11207:   FahrenheitAbsoluteZero,'Extended').setExtended( - 459.67 );
11208:   KelvinAbsoluteZero,'Extended').setExtended( 0.0 );
11209:   DegPerCycle , 'Extended').setExtended( 360.0 );
11210:   DegPerGrad , 'Extended').setExtended( 0.9 );
11211:   DegPerRad , 'Extended').setExtended( 57.295779513082320876798154814105 );
11212:   GradPerCycle , 'Extended').setExtended( 400.0 );
11213:   GradPerDeg , 'Extended').setExtended( 1.111111111111111111111111111111 );
11214:   GradPerRad , 'Extended').setExtended( 63.661977236758134307553505349006 );
11215:   RadPerCycle , 'Extended').setExtended( 6.283185307179586476925286766559 );
11216:   RadPerDeg , 'Extended').setExtended( 0.017453292519943295769236907684886 );
11217:   RadPerGrad , 'Extended').setExtended( 0.015707963267948966192313216916398 );
11218:   CyclePerDeg , 'Extended').setExtended( 0.00277777777777777777777777777777 );
11219:   CyclePerGrad , 'Extended').setExtended( 0.0025 );
11220:   CyclePerRad , 'Extended').setExtended( 0.15915494309189533576888376337251 );
11221:   ArcMinutesPerDeg , 'Extended').setExtended( 60.0 );
11222:   ArcSecondsPerArcMinute , 'Extended').setExtended( 60.0 );
11223:   Function HowAOneLinerCanBiteYou( const Step, Max : Longint ) : Longint
11224:   Function MakePercentage( const Step, Max : Longint ) : Longint
11225:   Function CelsiusToKelvin( const T : double ) : double
11226:   Function CelsiusToFahrenheit( const T : double ) : double
11227:   Function KelvinToCelsius( const T : double ) : double
11228:   Function KelvinToFahrenheit( const T : double ) : double
11229:   Function FahrenheitToCelsius( const T : double ) : double
11230:   Function FahrenheitToKelvin( const T : double ) : double
11231:   Function CycleToDeg( const Cycles : double ) : double
11232:   Function CycleToGrad( const Cycles : double ) : double
11233:   Function CycleToRad( const Cycles : double ) : double
11234:   Function DegToCycle( const Degrees : double ) : double
11235:   Function DegToGrad( const Degrees : double ) : double
11236:   Function DegToRad( const Degrees : double ) : double
11237:   Function GradToCycle( const Grads : double ) : double
11238:   Function GradToDeg( const Grads : double ) : double
11239:   Function GradToRad( const Grads : double ) : double
11240:   Function RadToCycle( const Radians : double ) : double
11241:   Function RadToDeg( const Radians : double ) : double
11242:   Function RadToGrad( const Radians : double ) : double
11243:   Function DmsToDeg( const D, M : Integer; const S : double ) : double
11244:   Function DmsToRad( const D, M : Integer; const S : double ) : double
11245:   Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double )
11246:   Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal ) : string
11247:   Procedure CartesianToPolar( const X, Y : double; out R, Phi : double )
11248:   Procedure PolarToCartesian( const R, Phi : double; out X, Y : double )
11249:   Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double )
11250:   Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double )
11251:   Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double )
11252:   Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double )
11253:   Function CmToInch( const Cm : double ) : double
11254:   Function InchToCm( const Inch : double ) : double
11255:   Function FeetToMetre( const Feet : double ) : double
11256:   Function MetreToFeet( const Metre : double ) : double
11257:   Function YardToMetre( const Yard : double ) : double
11258:   Function MetreToYard( const Metre : double ) : double
11259:   Function NmToKm( const Nm : double ) : double
11260:   Function KmToNm( const Km : double ) : double
11261:   Function KmToSm( const Km : double ) : double
11262:   Function SmToKm( const Sm : double ) : double
11263:   Function LitreToGalUs( const Litre : double ) : double
11264:   Function GalUsToLitre( const GalUs : double ) : double
11265:   Function GalUsToGalCan( const GalUs : double ) : double
11266:   Function GalCanToGalUs( const GalCan : double ) : double
11267:   Function GalUsToGalUk( const GalUs : double ) : double
11268:   Function GalUkToGalUs( const GalUk : double ) : double
11269:   Function LitreToGalCan( const Litre : double ) : double
11270:   Function GalCanToLitre( const GalCan : double ) : double
11271:   Function LitreToGalUk( const Litre : double ) : double
11272:   Function GalUkToLitre( const GalUk : double ) : double
11273:   Function KgToLb( const Kg : double ) : double
11274:   Function LbToKg( const Lb : double ) : double
11275:   Function KgToOz( const Kg : double ) : double
11276:   Function OzToKg( const Oz : double ) : double
11277:   Function CwtUsToKg( const Cwt : double ) : double
11278:   Function CwtUkToKg( const Cwt : double ) : double
11279:   Function KaratToKg( const Karat : double ) : double
11280:   Function KgToCwtUs( const Kg : double ) : double

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11281: Function KgToCwtUk( const Kg : double) : double
11282: Function KgToKarat( const Kg : double) : double
11283: Function KgToSton( const Kg : double) : double
11284: Function KgToLton( const Kg : double) : double
11285: Function StonToKg( const STon : double) : double
11286: Function LtonToKg( const Lton : double) : double
11287: Function QrUsToKg( const Qr : double) : double
11288: Function QrUkToKg( const Qr : double) : double
11289: Function KgToQrUs( const Kg : double) : double
11290: Function KgToQrUk( const Kg : double) : double
11291: Function PascalToBar( const Pa : double) : double
11292: Function PascalToAt( const Pa : double) : double
11293: Function PascalToTorr( const Pa : double) : double
11294: Function BarToPascal( const Bar : double) : double
11295: Function AtToPascal( const At : double) : double
11296: Function TorrToPascal( const Torr : double) : double
11297: Function KnotToMs( const Knot : double) : double
11298: Function HpElectricToWatt( const HpE : double) : double
11299: Function HpMetricToWatt( const HpM : double) : double
11300: Function MsToKnot( const ms : double) : double
11301: Function WattToHpElectric( const W : double) : double
11302: Function WattToHpMetric( const W : double) : double
11303: function getBigPI: string; //PI of 1000 numbers
11304:
11305: procedure SIRegister_devutils(CL: TPSPPascalCompiler);
11306: begin
11307:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11308:   Procedure CDCopyFile( const FileName, DestName : string)
11309:   Procedure CDMoveFile( const FileName, DestName : string)
11310:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11311:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11312:   Function CDGetTempDir : string
11313:   Function CDGetFileSize( FileName : string) : longint
11314:   Function GetFileTime( FileName : string) : longint
11315:   Function GetShortName( FileName : string) : string
11316:   Function GetFullName( FileName : string) : string
11317:   Function WinReboot : boolean
11318:   Function WinDir : String
11319:   Function Runfile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11320:   Function Runfile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11321:   Function devExecutor : TdevExecutor
11322: end;
11323:
11324: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11325: begin
11326:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7);
11327:   Procedure Associate( Index : integer)
11328:   Procedure UnAssociate( Index : integer)
11329:   Function IsAssociated( Index : integer) : boolean
11330:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11331:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string)
11332:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11333:   procedure RefreshIcons;
11334:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11335:   function MergColor(Colors: Array of TColor): TColor;
11336:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11337:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11338:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11339:   function GetInverseColor(AColor: TColor): TColor;
11340:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11341:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer; ShadowColor: TColor);
11342:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11343:   Procedure GetSystemMenuFont(Font: TFont);
11344: end;
11345:
11346: //*****unit uPSI_JvHLParse;*****
11347: function IsStringConstant(const St: string): Boolean;
11348: function IsIntConstant(const St: string): Boolean;
11349: function IsRealConstant(const St: string): Boolean;
11350: function IsIdentifier(const ID: string): Boolean;
11351: function GetStringValue(const St: string): string;
11352: procedure ParseString(const S: string; Ss: TStrings);
11353: function IsStringConstantW(const St: WideString): Boolean;
11354: function IsIntConstantW(const St: WideString): Boolean;
11355: function IsRealConstantW(const St: WideString): Boolean;
11356: function IsIdentifierW(const ID: WideString): Boolean;
11357: function GetStringValueW(const St: WideString): WideString;
11358: procedure ParseStringW(const S: WideString; Ss: TStrings);
11359:
11360:
11361: //*****unit uPSI_JclMapi;*****
11362:
11363: Function JclSimpleSendMail( const ARecipient,AName,ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd) : Boolean
11364: Function JclSimpleSendFax( const ARecipient, AName,ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd) : Boolean
11365: Function JclSimpleBringUpSendMailDialog(const ASubject,ABody:string;const AAttach:TFileName;AParentWND:HWnd):Bool
11366: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean) : DWORD

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11367: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11368:
11369: procedure SIRegister_IdNTLM(CL: TPSPascalCompiler);
11370: begin
11371:   //'Pdes_key_schedule', '^des_key_schedule // will not work
11372:   Function BuildType1Message( ADomain, AHost : String ) : String
11373:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11374:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIdAuthenticationClass )
11375:   Function FindAuthClass( AuthName : String ) : TIdAuthenticationClass
11376:   GBase64CodeTable', 'string'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+
11377:   GXECodeTable', 'string'+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
11378:   GUUECodeTable', 'string'!'#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLM NOPQRSTUVWXYZ[\]^_
11379: end;
11380:
11381: procedure SIRegister_WDOSocketUtils(CL: TPSPascalCompiler);
11382: begin
11383: ('IpAny', 'LongWord').SetUInt( $00000000 );
11384: IpLoopBack', 'LongWord').SetUInt( $7F000001 );
11385: IpBroadcast', 'LongWord').SetUInt( $FFFFFF );
11386: IpNone', 'LongWord').SetUInt( $FFFFFF );
11387: PortAny', 'LongWord( $0000 );
11388: SocketMaxConnections', 'LongInt'( 5 );
11389: TIPAddr', 'LongWord
11390: TIPRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11391: Function HostToNetLong( HostLong : LongWord ) : LongWord
11392: Function HostToNetShort( HostShort : Word ) : Word
11393: Function NetToHostLong( NetLong : LongWord ) : LongWord
11394: Function NetToHostShort( NetShort : Word ) : Word
11395: Function StrToIP( IP : string ) : TIPAddr
11396: Function IPToStr( IP : TIPAddr ) : string
11397: end;
11398:
11399: (*-----*)
11400: procedure SIRegister_ALSMTPCClient(CL: TPSPascalCompiler);
11401: begin
11402:   TAISmtClientAuthType', '( AlsmtClientAuthNone, alsmtClientAut'
11403:   +'hPlain, AlsmtClientAuthLogin, AlsmtClientAuthCramMD5, AlsmtClientAuthCr'
11404:   +'amSha1, AlsmtClientAuthAutoSelect )
11405:   TAISmtClientAuthTypeSet', 'set of TAISmtClientAuthType
11406:   SIRegister_TAISmtClient(CL);
11407: end;
11408:
11409: procedure SIRegister_WDOSPlcUtils(CL: TPSPascalCompiler);
11410: begin
11411: 'TBitNo', 'Integer
11412: TStByteNo', 'Integer
11413: TStationNo', 'Integer
11414: TInOutNo', 'Integer
11415: TIO', '( EE, AA, NE, NA )
11416: TBitSet', 'set of TBitNo
11417: TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11418: TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11419: TBitAddr', 'LongInt
11420: TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11421: TByteAddr', 'SmallInt
11422: TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11423: Function BitAddr(aIO: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11424: Function BusBitAddr(aIO:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11425: Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIO:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var aBitNo:TBitNo);
11426: Function BitAddrToStr( Value : TBitAddr ) : string
11427: Function StrToBitAddr( const Value : string ) : TBitAddr
11428: Function ByteAddr( aIO : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11429: Function BusByteAddr(aIO:TIO;aInOutNo:TInOutNo;aStation:TStationNo;aStByteNo:TStByteNo):TByteAddr
11430: Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIO:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11431: Function ByteAddrToStr( Value : TByteAddr ) : string
11432: Function StrToByteAddr( const Value : string ) : TByteAddr
11433: Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11434: Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11435: Function InOutStateToStr( State : TInOutState ) : string
11436: Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11437: Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11438: end;
11439:
11440: procedure SIRegister_WDOSTimers(CL: TPSPascalCompiler);
11441: begin
11442: TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11443:   +'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11444: DpmiPmVector', 'Int64
11445: 'DInterval', 'LongInt'( 1000 );
11446: //'Enabled', 'Boolean')BoolToStr( True );
11447: 'DIntFreq', 'string' if64
11448: //'DMessages', 'Boolean if64);
11449: SIRegister_TwdxCustomTimer(CL);
11450: SIRegister_TwdxTimer(CL);
11451: SIRegister_TwdxRtcTimer(CL);
11452: SIRegister_TCustomIntTimer(CL);
11453: SIRegister_TIntTimer(CL);
11454: SIRegister_TRtcIntTimer(CL);

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11455: Function RealNow : TDateTime
11456: Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11457: Function DateTimeToMs( Time : TDateTime ) : LongInt
11458: end;
11459:
11460: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11461: begin
11462:   TIIdSyslogPRI', 'Integer
11463:   TIIdSyslogFacility', '(
11464:     sfKernel, sfUserLevel, sfMailSystem, sfSy'
11465:     +'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11466:     +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11467:     +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11468:     +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11469:   TIIdSyslogSeverity', '(slEmergency, slAlert, slCritical, slError, slWarning, slNotice, slInformational, slDebug)
11470:   SIRegister_TIIdSysLogMsgPart(CL);
11471:   SIRegister_TIIdSysLogMessage(CL);
11472:   Function FacilityToString( AFac : TIIdSyslogFacility ) : string
11473:   Function SeverityToString( ASec : TIIdSyslogSeverity ) : string
11474:   Function NoToSeverity( ASev : Word ) : TIIdSyslogSeverity
11475:   Function logSeverityToNo( ASev : TIIdSyslogSeverity ) : Word
11476:   Function NoToFacility( AFac : Word ) : TIIdSyslogFacility
11477:   Function logFacilityToNo( AFac : TIIdSyslogFacility ) : Word
11478: end;
11479: procedure SIRegister_TextUtils(CL: TPSPascalCompiler);
11480: begin
11481:   'UWhitespace', 'String '(?:\s*)
11482:   Function StripSpaces( const AText : string ) : string
11483:   Function CharCount( const AText : string; Ch : Char ) : Integer
11484:   Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11485:   Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11486: end;
11487:
11488:
11489: procedure SIRegister_ExtPascalUtils(CL: TPSPascalCompiler);
11490: begin
11491:   ExtPascalVersion', 'String '0.9.8
11492:   AddTypeS('TBrowser', '(
11493:     brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11494:     +'Opera, brKonqueror, brMobileSafari )
11495:   AddTypes('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11496:   AddTypes('TExtProcedure', 'Procedure
11497:   Function DetermineBrowser( const UserAgentStr : string ) : TBrowser
11498:   Function ExtExtract(const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool):bool;
11499:   Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11500:   Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11501:   Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11502:   Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11503:   Function StrToJS( const S : string; UseBR : boolean ) : string
11504:   Function CaseOf( const S : string; const Cases : array of string ) : integer
11505:   Function RCaseOf( const S : string; const Cases : array of string ) : integer
11506:   Function EnumToJSString( TypeInfo: PTypeInfo; Value : integer ) : string
11507:   Function SetPaddings(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11508:   Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11509:   Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11510:   Function IsUpperCase( S : string ) : boolean
11511:   Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11512:   Function BeautifyCSS( const AStyle : string ) : string
11513:   Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11514:   Function JSDateToDate( JSDate : string ) : TDateTime
11515: end;
11516: procedure SIRegister_JclShell(CL: TPSPascalCompiler);
11517: begin
11518:   TSHDeleteOption', '(
11519:     doSilent, doAllowUndo, doFilesOnly )
11520:   TSHDeleteOptions', 'set of TSHDeleteOption
11521:   TSHRenameOption', '(
11522:     roSilent, roRenameOnCollision )
11523:   TSHRenameOptions', 'set of TSHRenameOption
11524:   Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11525:   Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11526:   Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11527:   TEnumFolderFlag', '(
11528:     efFolders, efNonFolders, efIncludeHidden )
11529:   TEnumFolderFlags', 'set of TEnumFolderFlag
11530:   TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11531:   +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11532:   +'IEnumIdList; Folder : IShellFolder; end
11533:   Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11534:   Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11535:   Procedure SHEnumFolderClose( var F : TEnumFolderRec ) : Boolean
11536:   Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11537:   Function GetSpecialFolderLocation( const Folder : Integer ) : string
11538:   Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11539:   Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11540:   Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11541:   Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11542:   Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11543:   Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11544:   Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11545:   Function SHFreeMem( var P : Pointer ) : Boolean

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11544: Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PItemIdList
11545: Function PathToPidl( const Path : string; Folder : IShellFolder ) : PItemIdList
11546: Function PathToPidlBind( const FileName : string; out Folder : IShellFolder ) : PItemIdList
11547: Function PidlBindToParent( const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11548: Function PidlCompare( const Pidl1, Pidl2 : PItemIdList ) : Boolean
11549: Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList ) : Boolean
11550: Function PidlFree( var IdList : PItemIdList ) : Boolean
11551: Function PidlGetDepth( const Pidl : PItemIdList ) : Integer
11552: Function PidlGetLength( const Pidl : PItemIdList ) : Integer
11553: Function PidlGetNext( const Pidl : PItemIdList ) : PItemIdList
11554: Function PidlToPath( IdList : PItemIdList ) : string
11555: Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11556: Function StrRetToString( Idlist : PItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11557: PShellLink', '^TShellLink // will not work
11558: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11559: +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11560: +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11561: Procedure ShellLinkFree( var Link : TShellLink )
11562: Function ShellLinkResolve( const FileName : string; var Link : TShellLink ) : HRESULT
11563: Function ShellLinkCreate( const Link : TShellLink; const FileName : string ) : HRESULT
11564: Function ShellLinkCreateSystem( const Link:TShellLink;const Folder:Integer; const FileName:string ):HRESULT;
11565: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon ) : Boolean
11566: Function SHDlGetVersion( const FileName : string; var Version : TDllVersionInfo ) : Boolean
11567: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal ) : HICON
11568: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean ) : Boolean
11569: Function OverlayIconShortCut( var Large, Small : HICON ) : Boolean
11570: Function OverlayIconShared( var Large, Small : HICON ) : Boolean
11571: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList ) : string
11572: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11573: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11574: Function ShellExecAndWait(const FileName:string;const Paramets:string;const Verb:string;CmdShow:Int):Bool;
11575: Function ShellOpenAs( const FileName : string ) : Boolean
11576: Function ShellRasodial( const EntryName : string ) : Boolean
11577: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11578: Function GetfileNameIcon( const FileName : string; Flags : Cardinal ) : HICON
11579: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11580: Function GetfileExeType( const FileName : TfileName ) : TJclFileExeType
11581: Function ShellFindExecutable( const FileName, DefaultDir : string ) : string
11582: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD )
11583: Function OemKeyScan( wOemChar : Word ) : DWORD
11584: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD )
11585: end;
11586:
11587: procedure SIRegister_cXMLFunctions(CL: TPSPascalCompiler);
11588: begin
11589: xmlVersion', 'String '1.0 FindClass('TOBJECT'),'Exml
11590: //Function xmlValidChar( const Ch : AnsiChar ) : Boolean;
11591: Function xmlValidChar1( const Ch : UCS4Char ) : Boolean;
11592: Function xmlValidChar2( const Ch : WideChar ) : Boolean;
11593: Function xmlIsSpaceChar( const Ch : WideChar ) : Boolean
11594: Function xmlIsLetter( const Ch : WideChar ) : Boolean
11595: Function xmlIsDigit( const Ch : WideChar ) : Boolean
11596: Function xmlIsNameStartChar( const Ch : WideChar ) : Boolean
11597: Function xmlIsNameChar( const Ch : WideChar ) : Boolean
11598: Function xmlIsPubidChar( const Ch : WideChar ) : Boolean
11599: Function xmlValidName( const Text : UnicodeString ) : Boolean
11600: //xmlSpace', 'Char #$20 or #$9 or #$D or #$A);
11601: //Function xmlSkipSpace( var P : PWideChar ) : Boolean
11602: //Function xmlSkipEq( var P : PWideChar ) : Boolean
11603: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString ) : Boolean
11604: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer )
11605: : TUnicodeCodecClass
11606: Function xmlResolveEntityReference( const RefName : UnicodeString ) : WideChar
11607: Function xmlTag( const Tag : UnicodeString ) : UnicodeString
11608: Function xmlEndTag( const Tag : UnicodeString ) : UnicodeString
11609: Function xmlLAttrTag( const Tag : UnicodeString; const Attr : UnicodeString ) : UnicodeString
11610: Function xmlEmptyTag( const Tag, Attr : UnicodeString ) : UnicodeString
11611: Procedure xmlSafeTextInPlace( var Txt : UnicodeString )
11612: Function xmlSafeText( const Txt : UnicodeString ) : UnicodeString
11613: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer ) : UnicodeString
11614: Function xmlTabIndent( const IndentLevel : Integer ) : UnicodeString
11615: Function xmlComment( const Comment : UnicodeString ) : UnicodeString
11616: Procedure SelfTestcXMLFunctions
11617: end;
11618: (*-----*)
11619: procedure SIRegister_DepWalkUtils(CL: TPSPascalCompiler);
11620: begin
11621: Function AWaitCursor : IUnknown
11622: Function ChangeCursor( NewCursor : TCursor ) : IUnknown
11623: Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean )
11624: Function YesNo( const ACaption, AMsg : string ) : boolean
11625: Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings )
11626: Function GetBorlandLibPath( Version : integer; ForDelphi : boolean ) : string
11627: Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean ) : string
11628: Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings )
11629: Procedure GetSystemPaths( Strings : TStrings )
11630: Procedure MakeEditNumeric( EditHandle : integer )
11631: end;

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11632:
11633: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11634: begin
11635:   AddTypeS('TVideoCodec', '(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11636:   'BI_YUY2','LongWord').SetUInt( $32595559 );
11637:   'BI_UYVY','LongWord').SetUInt( $59565955 );
11638:   'BI_BTYUV','LongWord').SetUInt( $50313459 );
11639:   'BI_YVU9','LongWord').SetUInt( $39555659 );
11640:   'BI_YUV12','LongWord').SetUInt( $30323449 );
11641:   'BI_Y8','LongWord').SetUInt( $20203859 );
11642:   'BI_Y211','LongWord').SetUInt( $31313259 );
11643:   Function BICompressionToVideoCodec( Value : DWord ) : TVideoCodec
11644:   Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11645: end;
11646:
11647: (*-----*)
11648: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11649: begin
11650:   'WM_USER','LongWord').SetUInt( $0400 );
11651:   'WM_CAP_START','LongWord').SetUInt($0400);
11652:   'WM_CAP_END','longword').SetUInt($0400+85);
11653: //WM_CAP_START+ 85
11654: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11655: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt ) : LongInt
11656: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt ) : LongInt
11657: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt ) : LongInt
11658: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt ) : LongInt
11659: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11660: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11661: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt ) : LongInt
11662: Function capSetUserData( hwnd : THandle; lUser : LongInt ) : LongInt
11663: Function capGetUserData( hwnd : THandle ) : LongInt
11664: Function capDriverConnect( hwnd : THandle; I : Word ) : LongInt
11665: Function capDriverDisconnect( hwnd : THandle ) : LongInt
11666: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11667: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word ) : LongInt
11668: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11669: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt ) : LongInt
11670: Function capfileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11671: Function capfileAlloc( hwnd : THandle; dwSize : LongInt ) : LongInt
11672: Function capfileSaveAs( hwnd : THandle; szName : LongInt ) : Longint
11673: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt ) : LongInt
11674: Function capfileSaveDIB( hwnd : THandle; szName : LongInt ) : LongInt
11675: Function capEditCopy( hwnd : THandle ) : LongInt
11676: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11677: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11678: Function capGetAudioFormatSize( hwnd : THandle ) : LongInt
11679: Function capDlgVideoFormat( hwnd : THandle ) : LongInt
11680: Function capDlgVideoSource( hwnd : THandle ) : LongInt
11681: Function capDlgVideoDisplay( hwnd : THandle ) : LongInt
11682: Function capDlgVideoCompression( hwnd : THandle ) : LongInt
11683: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11684: Function capGetVideoFormatSize( hwnd : THandle ) : LongInt
11685: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11686: Function capPreview( hwnd : THandle; f : Word ) : LongInt
11687: Function capPreviewRate( hwnd : THandle; wMS : Word ) : LongInt
11688: Function capOverlay( hwnd : THandle; f : Word ) : LongInt
11689: Function capPreviewScale( hwnd : THandle; f : Word ) : LongInt
11690: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11691: Function capSetScrollPos( hwnd : THandle; lpP : LongInt ) : LongInt
11692: Function capGrabFrame( hwnd : THandle ) : LongInt
11693: Function capGrabFrameNoStop( hwnd : THandle ) : LongInt
11694: Function capCaptureSequence( hwnd : THandle ) : LongInt
11695: Function capCaptureSequenceNoFile( hwnd : THandle ) : LongInt
11696: Function capCaptureStop( hwnd : THandle ) : LongInt
11697: Function capCaptureAbort( hwnd : THandle ) : LongInt
11698: Function capCaptureSingleFrameOpen( hwnd : THandle ) : LongInt
11699: Function capCaptureSingleFrameClose( hwnd : THandle ) : LongInt
11700: Function capCaptureSingleFrame( hwnd : THandle ) : LongInt
11701: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11702: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11703: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt ) : LongInt
11704: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11705: Function capPaletteOpen( hwnd : THandle; szName : LongInt ) : LongInt
11706: Function capPaletteSave( hwnd : THandle; szName : LongInt ) : LongInt
11707: Function capPalettePaste( hwnd : THandle ) : LongInt
11708: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt ) : LongInt
11709: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt ) : LongInt
11710: //PCapDriverCaps', '^TCapDriverCaps // will not work
11711: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11712:   +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11713:   +'y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid'
11714:   +'eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11715: //PCapStatus', '^TCapStatus // will not work
11716: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11717:   +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOIN'
11718:   +'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapfileExists : BO'
11719:   +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11720:   +'rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'

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11721:     +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD;'  

11722:     +'wNumAudioAllocated : WORD; end  

11723: //PCaptureParms', '^TCaptureParms // will not work  

11724: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'  

11725:     +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'  

11726:     +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'  

11727:     +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'  

11728:     +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'  

11729:     +'ed : BOOL : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'  

11730:     +'wMCISearchBarTime : DWORD; dwMCISearchBarTime : DWORD; fStepCaptureAt2x : BOOL; wSt'  

11731:     +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'  

11732:     +'he : BOOL; AVStreamMaster : WORD; end  

11733: // PCapInfoChunk', '^TCapInfoChunk // will not work  

11734: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end  

11735: 'CONTROLCALLBACK_PREROLL','LongInt'( 1);  

11736: 'CONTROLCALLBACK_CAPTURING','LongInt'( 2);  

11737: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight  

: Integer; hwndParent : THandle; nID : Integer ) : THandle  

11738: Function  

capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;  

11739: 'IDS_CAP_BEGIN','LongInt'( 300);  

11740: 'IDS_CAP_END','LongInt'( 301);  

11741: 'IDS_CAP_INFO','LongInt'( 401);  

11742: 'IDS_CAP_OUTOFMEM','LongInt'( 402);  

11743: 'IDS_CAP_FILEEXISTS','LongInt'( 403);  

11744: 'IDS_CAP_ERRORPALOPEN','LongInt'( 404);  

11745: 'IDS_CAP_ERRORPALSEAVE','LongInt'( 405);  

11746: 'IDS_CAP_ERRORDIBSAVE','LongInt'( 406);  

11747: 'IDS_CAP_DEFAVIEXT','LongInt'( 407);  

11748: 'IDS_CAP_DEFPALEXT','LongInt'( 408);  

11749: 'IDS_CAP_CANTOPEN','LongInt'( 409);  

11750: 'IDS_CAP_SEQ_MSGSTART','LongInt'( 410);  

11751: 'IDS_CAP_SEQ_MSGSTOP','LongInt'( 411);  

11752: 'IDS_CAP_VIDEEDITERR','LongInt'( 412);  

11753: 'IDS_CAP_READONLYFILE','LongInt'( 413);  

11754: 'IDS_CAP_WRITEERROR','LongInt'( 414);  

11755: 'IDS_CAP_NODISKSPACE','LongInt'( 415);  

11756: 'IDS_CAP_SETFILESIZE','LongInt'( 416);  

11757: 'IDS_CAP_SAVEASPERCENT','LongInt'( 417);  

11758: 'IDS_CAP_DRIVER_ERROR','LongInt'( 418);  

11759: 'IDS_CAP_WAVE_OPEN_ERROR','LongInt'( 419);  

11760: 'IDS_CAP_WAVE_ALLOC_ERROR','LongInt'( 420);  

11761: 'IDS_CAP_WAVE_PREPARE_ERROR','LongInt'( 421);  

11762: 'IDS_CAP_WAVE_ADD_ERROR','LongInt'( 422);  

11763: 'IDS_CAP_WAVE_SIZE_ERROR','LongInt'( 423);  

11764: 'IDS_CAP_VIDEO_OPEN_ERROR','LongInt'( 424);  

11765: 'IDS_CAP_VIDEO_ALLOC_ERROR','LongInt'( 425);  

11766: 'IDS_CAP_VIDEO_PREPARE_ERROR','LongInt'( 426);  

11767: 'IDS_CAP_VIDEO_ADD_ERROR','LongInt'( 427);  

11768: 'IDS_CAP_VIDEO_SIZE_ERROR','LongInt'( 428);  

11769: 'IDS_CAP_FILE_OPEN_ERROR','LongInt'( 429);  

11770: 'IDS_CAP_FILE_WRITE_ERROR','LongInt'( 430);  

11771: 'IDS_CAP_RECORDING_ERROR','LongInt'( 431);  

11772: 'IDS_CAP_RECORDING_ERROR2','LongInt'( 432);  

11773: 'IDS_CAP_AVI_INIT_ERROR','LongInt'( 433);  

11774: 'IDS_CAP_NO_FRAME_CAP_ERROR','LongInt'( 434);  

11775: 'IDS_CAP_NO_PALETTE_WARN','LongInt'( 435);  

11776: 'IDS_CAP_MCI_CONTROL_ERROR','LongInt'( 436);  

11777: 'IDS_CAP_MCI_CANT_STEP_ERROR','LongInt'( 437);  

11778: 'IDS_CAP_NO_AUDIO_CAP_ERROR','LongInt'( 438);  

11779: 'IDS_CAP_AVI_DRAWDIB_ERROR','LongInt'( 439);  

11780: 'IDS_CAP_COMPRESSOR_ERROR','LongInt'( 440);  

11781: 'IDS_CAP_AUDIO_DROP_ERROR','LongInt'( 441);  

11782: 'IDS_CAP_STAT_LIVE_MODE','LongInt'( 500);  

11783: 'IDS_CAP_STAT_OVERLAY_MODE','LongInt'( 501);  

11784: 'IDS_CAP_STAT_CAP_INIT','LongInt'( 502);  

11785: 'IDS_CAP_STAT_CAP_FINI','LongInt'( 503);  

11786: 'IDS_CAP_STAT_PALETTE_BUILD','LongInt'( 504);  

11787: 'IDS_CAP_STAT_OPTPAL_BUILD','LongInt'( 505);  

11788: 'IDS_CAP_STAT_I_FRAMES','LongInt'( 506);  

11789: 'IDS_CAP_STAT_L_FRAMES','LongInt'( 507);  

11790: 'IDS_CAP_STAT_CAP_L_FRAMES','LongInt'( 508);  

11791: 'IDS_CAP_STAT_CAP_AUDIO','LongInt'( 509);  

11792: 'IDS_CAP_STAT_VIDEOCURRENT','LongInt'( 510);  

11793: 'IDS_CAP_STAT_VIDEOAUDIO','LongInt'( 511);  

11794: 'IDS_CAP_STAT_VIDEOONLY','LongInt'( 512);  

11795: 'IDS_CAP_STAT_FRAMESDROPPED','LongInt'( 513);  

11796: 'AVICAP32','String 'AVICAP32.dll  

11797: end;  

11798:  

11799: procedure SIRegister_ALFcnMisc(CL: TPPSPascalCompiler);  

11800: begin  

11801:   Function AlBoolToInt( Value : Boolean ) : Integer  

11802:   Function ALMediumPos( LTotal, LBorder, LObject : integer ) : Integer  

11803:   Function AlIsValidEmail( const Value : AnsiString ) : boolean  

11804:   Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime ) : TdateTime  

11805:   Function ALInc( var x : integer; Count : integer ) : Integer  

11806:   function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString  

11807:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;

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11808: procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11809: Function ALIsInteger(const S: AnsiString): Boolean;
11810: function ALIsDecimal(const S: AnsiString): boolean;
11811: Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11812: function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11813: function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11814: function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11815: function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11816: Function ALRandomStr1(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11817: Function ALRandomStr(const aLength: Longint): AnsiString;
11818: Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11819: Function ALRandomStrU(const aLength: Longint): String;
11820: end;
11821;
11822: procedure SIRegister_ALJSONDoc(CL: TPPSPascalCompiler);
11823: begin
11824: Procedure ALJSONTOTStrings(const AJsonStr: AnsiString; alst:TALStrings; const aNullStr:AnsiString;const
11825: aTrueStr: AnsiString; const aFalseStr : AnsiString)
11826: end;
11827: procedure SIRegister_ALWindows(CL: TPPSPascalCompiler);
11828: begin
11829:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11830:   +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11831:   +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11832:   +'; ullAvailExtendedVirtual : Int64; end
11833: TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11834: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11835: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11836: 'INVALID_SET_FILE_POINTER', 'LongInt'( DWORD ( - 1 ) );
11837: 'QUOTA_LIMITS_HARDWS_MIN_DISABLE', 'LongWord').SetUInt( $2 );
11838: 'QUOTA_LIMITS_HARDWS_MIN_ENABLE', 'LongWord').SetUInt( $1 );
11839: 'QUOTA_LIMITS_HARDWS_MAX_DISABLE', 'LongWord').SetUInt( $8 );
11840: 'QUOTA_LIMITS_HARDWS_MAX_ENABLE', 'LongWord').SetUInt( $4 );
11841: end;
11842;
11843: procedure SIRegister_IPCThrd(CL: TPPSPascalCompiler);
11844: begin
11845:   SIRegister_THandledObject(CL);
11846:   SIRegister_TEvent(CL);
11847:   SIRegister_TMutex(CL);
11848:   SIRegister_TSharedMem(CL);
11849:   'TRACE_BUF_SIZE', 'LongInt'( 200 * 1024 );
11850:   'TRACE_BUFFER', 'String 'TRACE_BUFFER
11851:   'TRACE_MUTEX', 'String 'TRACE_MUTEX
11852:   //PTTraceEntry', '^TTraceEntry // will not work
11853:   SIRegister_TIPCTracer(CL);
11854:   'MAX_CLIENTS', 'LongInt'( 6 );
11855:   'IPCTIMEOUT', 'LongInt'( 2000 );
11856:   'IPCBUFFER_NAME', 'String 'BUFFER_NAME
11857:   'BUFFER_MUTEX_NAME', 'String 'BUFFER_MUTEX
11858:   'MONITOR_EVENT_NAME', 'String 'MONITOR_EVENT
11859:   'CLIENT_EVENT_NAME', 'String 'CLIENT_EVENT
11860:   'CONNECT_EVENT_NAME', 'String 'CONNECT_EVENT
11861:   'CLIENT_DIR_NAME', 'String 'CLIENT_DIRECTORY
11862:   'CLIENT_DIR_MUTEX', 'String 'DIRECTORY_MUTEX
11863:   FindClass('TOBJECT'), 'EMonitorActive
11864:   FindClass('TOBJECT'), 'TIPCThread
11865:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSignal'
11866:   +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11867:   +'ach, evClientSwitch, evClientSignal, evClientExit )
11868:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11869:   TClientFlags', 'set of TClientFlag
11870:   //PEventData', '^TEventData // will not work
11871:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11872:   +'lag; Flags : TClientFlags; end
11873:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11874:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11875:   TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11876:   //PIPCEventInfo', '^TIPCEventInfo // will not work
11877:   TIPCEventInfo', 'record FID:Integer; FKind:TEventKind; FData:TEventData; end
11878:   SIRegister_TIPCEvent(CL);
11879:   //PClientDirRecords', '^TClientDirRecords // will not work
11880:   SIRegister_TCClientDirectory(CL);
11881:   TIPCState', '( stInactive, stDisconnected, stConnected )
11882:   SIRegister_TIPCThread(CL);
11883:   SIRegister_TIPCMonitor(CL);
11884:   SIRegister_TIPCCClient(CL);
11885:   Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11886:   end;
11887;
11888: (*-----*)
11889: procedure SIRegister_ALGSMComm(CL: TPPSPascalCompiler);
11890: begin
11891:   SIRegister_TALGSMComm(CL);
11892:   Function AlGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11893:   Procedure AlGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
AMessage:AnsiString);
11894:   Function AlGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString

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11895: Function AlGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
11896:   UseGreekAlphabet:Bool):Widestring;
11897: function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11898: end;
11899: procedure SIRегистer_ALHttpCommon(CL: TPSPascalCompiler);
11900: begin
11901:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11902:   TALHTTPProtocolVersion', '( HTTPpv_1_0, HTTPpv_1_1 )
11903:   TALHTTPMethod', '(HTTPmt_Get,HTTPmt_Post,HTTPmt_Head,HTTPmt_Trace,HTTPmt_Put,HTTPmt_Delete);
11904:   TIInternetScheme', 'integer
11905:   TALIPv6Binary', 'array[1..16] of Char;
11906: // TALIPv6Binary = array[1..16] of ansiChar;
11907: // TIInternetScheme = Integer;
11908: SIRегистer_TALHTTPRequestHeader(CL);
11909: SIRегистer_TALHTTPCookie(CL);
11910: SIRегистer_TALHTTPCookieCollection(CL);
11911: SIRегистer_TALHTTPResponseHeader(CL);
11912: Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11913: Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11914: // Procedure ALEXtractHTTPFields(Separators,WhiteSpace,Quotes:TSysCharSet;
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean);
11915: // Procedure ALEXtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11916: // Procedure ALEXtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11917: Function AlRemoveShemeFromUrl( aUrl : AnsiString ) : ansiString
11918: Function AlExtractShemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11919: Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11920: Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11921: Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11922: Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11923: Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11924: Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11925: Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
11926: Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
11927: Function AlCombineUrl( RelativeUrl, BaseUrl : AnsiString ) : AnsiString;
11928: Function AlCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11929: Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11930: Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11931: Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11932: Function ALRfc822StrToGMTDateTime( const s : AnsiString ) : TDateTime
11933: Function ALTryIPV4StrToNumeric( aIPV4Str : ansiString; var aIPV4Num : Cardinal ) : Boolean
11934: Function ALIPV4StrToNumeric( aIPV4 : ansiString ) : Cardinal
11935: Function ALNumericToIPV4Str( aIPV4 : Cardinal ) : ansiString
11936: Function ALZeroIpV6 : TALIPv6Binary
11937: Function ALTryIPV6StrToBinary( aIPV6Str : ansiString; var aIPv6Bin : TALIPv6Binary ) : Boolean
11938: Function ALIPV6StrTobinary( aIPv6 : ansiString ) : TALIPv6Binary
11939: Function ALBinaryToIPV6Str( aIPv6 : TALIPv6Binary ) : ansiString
11940: Function ALBinaryStrToIPV6Binary( aIPV6BinaryStr : ansiString ) : TALIPv6Binary
11941: end;
11942:
11943: procedure SIRегистer_ALFcnsHTML(CL: TPSPascalCompiler);
11944: begin
11945:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Bool;
11946:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11947:   Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
11948:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
11949:   Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
11950:   Function ALUTF8HTMLDecode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
useNumRef:bool):AnsiString;
11951:   Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11952:   Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean ) : AnsiString
11953:   Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
11954:   Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11955:   Procedure ALCompactHtmlTagParams( TagParams : TALStrings )
11956: end;
11957:
11958: procedure SIRегистer_ALInternetMessageCommon(CL: TPSPascalCompiler);
11959: begin
11960:   SIRегистer_TALEMailHeader(CL);
11961:   SIRегистer_TALNewsArticleHeader(CL);
11962:   Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):AnsiString;
11963:   Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11964:   Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
11965:   Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11966:   Function AlGenerateInternetMessageID : AnsiString;
11967:   Function AlGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11968:   Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
11969:   Function AlDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11970: end;
11971:
11972: (*-----*)
11973: procedure SIRегистer_ALFcnsWinSock(CL: TPSPascalCompiler);

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11974: begin
11975:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11976:   Function ALIPAddrToName( IPAddr : AnsiString) : AnsiString
11977:   Function ALgetLocalIPs : TALStrings
11978:   Function ALgetLocalHostName : AnsiString
11979: end;
11980:
11981: procedure SIRegister_ALFcncGI(CL: TPSPascalCompiler);
11982: begin
11983:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
11984:     TALWebRequest;ServerVariables:TALStrings);
11985:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
11986:     TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11987:   Procedure AlCGIInitDefaultServerVariables( ServerVariables : TALStrings);
11988:   Procedure AlCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
11989:     ScriptFileName:AnsiString;Url:Ansistr;
11990:     Procedure AlCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
11991:       ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11992:     Procedure AlCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
11993:       : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
11994:     Procedure AlCGIExec1( ScriptName,ScriptFileName , Url , X_REWRITE_URL , InterpreterFilename:AnsiString;
11995:       WebRequest : TALIsapiRequest;
11996:       overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;
11997:       +'overloadedRequestContentStream:Tstream;var
11998:       ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
11999:     end;
12000:   end;
12001:   procedure SIRegister_ALFcncExecute(CL: TPSPascalCompiler);
12002:   begin
12003:     TStartupInfoA', 'TStartupInfo
12004:     'SE_CREATE_TOKEN_NAME', 'String'( 'SeCreateTokenPrivilege
12005:     SE_ASSIGNPRIMARYTOKEN_NAME', 'String' SeAssignPrimaryTokenPrivilege
12006:     SE_LOCK_MEMORY_NAME', 'String)( 'SeLockMemoryPrivilege
12007:     SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege
12008:     SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege
12009:     SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege
12010:     SE_TCB_NAME', 'string 'SetcbPrivilege
12011:     SE_SECURITY_NAME', 'String 'SeSecurityPrivilege
12012:     SE TAKE OWNERSHIP NAME', 'String 'SeTakeOwnershipPrivilege
12013:     SE LOAD DRIVER NAME', 'String 'SeLoadDriverPrivilege
12014:     SE SYSTEM PROFILE NAME', 'String 'SeSystemProfilePrivilege
12015:     SE SYSTEMTIME NAME', 'String 'SeSystemtimePrivilege
12016:     SE PROF_SINGLE PROCESS NAME', 'String 'SeProfileSingleProcessPrivilege
12017:     SE INC BASE PRIORITY NAME', 'String 'SeIncreaseBasePriorityPrivilege
12018:     SE CREATE PAGEFILE NAME', 'String 'SeCreatePagefilePrivilege
12019:     SE CREATE PERMANENT NAME', 'String 'SeCreatePermanentPrivilege
12020:     SE BACKUP NAME', 'String 'SeBackupPrivilege
12021:     SE RESTORE NAME', 'String 'SeRestorePrivilege
12022:     SE SHUTDOWN NAME', 'String 'SeShutdownPrivilege
12023:     SE DEBUG NAME', 'String 'SeDebugPrivilege
12024:     SE AUDIT NAME', 'String 'SeAuditPrivilege
12025:     SE SYSTEM ENVIRONMENT NAME', 'String 'SeSystemEnvironmentPrivilege
12026:     SE CHANGE NOTIFY NAME', 'string 'SeChangeNotifyPrivilege
12027:     SE REMOTE SHUTDOWN NAME', 'String 'SeRemoteShutdownPrivilege
12028:     SE UNDOCK NAME', 'String 'SeUndockPrivilege
12029:     SE SYNC AGENT NAME', 'String 'SeSyncAgentPrivilege
12030:     SE ENABLE DELEGATION NAME', 'String 'SeEnableDelegationPrivilege
12031:     SE MANAGE VOLUME NAME', 'String 'SeManageVolumePrivilege
12032:     Function ALGetEnvironmentString : AnsiString
12033:     Function ALWinExec32( const FileName,CurrentDir,
12034:       Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12035:     Function ALWinExec321( const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12036:     Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer) : DWORD
12037:     Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer) : DWORD
12038:     Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean) : Boolean
12039:   end;
12040:
12041: procedure SIRegister_ALFcncFile(CL: TPSPascalCompiler);
12042: begin
12043:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
12044:     RemoveEmptySubDirectory : Boolean; const FileNameMask : ansistring; const MinFileAge : TdateTime):Boolean;
12045:   Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
12046:     RemoveEmptySubDirectory:Bool; const FileNameMask : ansistring; const MinFileAge : TdateTime) : Boolean;
12047:   Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
12048:     FileNameMask : ansistring; const FailIfExists : Boolean) : Boolean

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12049: Function ALDirectoryExists( const Directory : Ansistring ) : Boolean
12050: Function ALCreateDir( const Dir : Ansistring ) : Boolean
12051: Function ALRemoveDir( const Dir : Ansistring ) : Boolean
12052: Function ALDeleteFile( const FileName : Ansistring ) : Boolean
12053: Function ALRenameFile( const OldName, NewName : ansistring ) : Boolean
12054: end;
12055:
12056: procedure SIRегистер_ALFcнMime(CL: TPSpascalCompiler);
12057: begin
12058:   NativeInt', 'Integer
12059:   NativeUInt', 'Cardinal
12060:   Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12061:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12062:   Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12063:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12064:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12065:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12066:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12067:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12068:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12069:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt ) : NativeInt;
12070:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt );
12071:   + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12072:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal ) : NativeInt;
12073:   Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray);
12074:   Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12075:   Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12076:   Function ALMimeBase64Decode(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray):NativeInt;
12077:   Function ALMimeBase64DecodePartial1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : NativeInt;
12078:   Function ALMimeBase64DecodePartialEnd1(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal):NativeInt;
12079:   Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName )
12080:   Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName )
12081:   Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName )
12082:   Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream )
12083:   Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream )
12084:   Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream )
12085:   'CALMimeBase64_ENCODED_LINE_BREAK', 'LongInt'( 76 );
12086:   'CALMimeBase64_DECODED_LINE_BREAK', 'LongInt'( CALMimeBase64_ENCODED_LINE_BREAK div 4 * 3 );
12087:   'CALMimeBase64_BUFFER_SIZE', 'LongInt'( CALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4 );
12088:   Procedure ALFillMimeContentTypeByExtList( AMIMEList : TALStrings )
12089:   Procedure ALFillExtByMimeContentTypeList( AMIMEList : TALStrings )
12090:   Function ALGetDefaultFileExtFromMimeType( aContentType : AnsiString ) : AnsiString
12091:   Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString ) : AnsiString
12092: end;
12093:
12094: procedure SIRегистер_ALXmlDoc(CL: TPSpascalCompiler);
12095: begin
12096:   'CALXMLNodeMaxListSize', 'LongInt'( Maxint div 16 );
12097:   FindClass( 'TOBJECT' ), 'TALXMLNode
12098:   FindClass( 'TOBJECT' ), 'TALXMLNodelist
12099:   FindClass( 'TOBJECT' ), 'TALXMLDocument
12100:   TALXMLParseProcessingInstructionEvent', 'Procedure ( Sender:TObject; const Target,Data:Ansistring )
12101:   TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: AnsiString )
12102:   TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co'
12103:   + 'nst Name : AnsiString; const Attributes : TALStrings )
12104:   TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString )
12105:   TALXmlNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '
12106:   + 'ntCDATA, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12107:   + 'ntDocType, ntDocFragment, ntNotation )
12108:   TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12109:   TALXMLDocOptions', 'set of TALXMLDocOption
12110:   TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12111:   TALXMLParseOptions', 'set of TALXMLParseOption
12112:   TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12113:   PALPointerXMLNodelist', '^PALPointerXMLNodelist // will not work
12114:   SIRегистер_EALXMLDocError(CL);
12115:   SIRегистер_TALXMLNodelist(CL);
12116:   SIRегистер_TALXMLNode(CL);
12117:   SIRегистер_TALXmlElementNode(CL);
12118:   SIRегистер_TALXmlAttributeNode(CL);
12119:   SIRегистер_TALXmlTextNode(CL);
12120:   SIRегистер_TALXmlDocumentNode(CL);
12121:   SIRегистер_TALXmlCommentNode(CL);
12122:   SIRегистер_TALXmlProcessingInstrNode(CL);
12123:   SIRегистер_TALXmlCDataNode(CL);
12124:   SIRегистер_TALXmlEntityRefNode(CL);
12125:   SIRегистер_TALXmlEntityNode(CL);

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12126: SIRегистrier_TALXmlDocTypeNode(CL);
12127: SIRегистrier_TALXmlDocFragmentNode(CL);
12128: SIRегистrier_TALXmlNotationNode(CL);
12129: SIRегистrier_TALXMLDocument(CL);
12130: cALXMLENT8EncodingStr', 'String 'UTF-8
12131: cALXMLENT8HeaderStr', 'String <?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' +#13#10);
12132: CALNSDelim', 'String ': 
12133: CALXML', 'String 'xml
12134: CALVersion', 'String 'version
12135: CALEncoding', 'String 'encoding
12136: CALStandalone', 'String 'standalone
12137: CALDefaultNodeIndent', 'String '
12138: CALXmlDocument', 'String 'DOCUMENT
12139: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TalXMLDocument
12140: Procedure ALClearXMLDocument(const rootname:AnsiString;xmldoc:TalXMLDocument;const
EncodingStr:AnsiString);
12141: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildnodeName,
ChildnodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12142: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildnodeName, ChildnodeValue : AnsiString; const Recurse : Boolean ) : TalxmlNode
12143: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean):TalxmlNode
12144: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName,AttributeValue : AnsiString; const Recurse : Boolean ) : TalxmlNode
12145: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString ) :
AnsiString
12146: end;
12147:
12148: procedure SIRегистrier_TeCanvas(CL: TPSPPascalCompiler);
12149: //based on TEEProc, TeCanvas, TEEEngine, TChart
12150: begin
12151: 'TeePiStep','Double').setExtended( Pi / 180.0 );
12152: 'TeeDefaultPerspective','LongInt'( 100 );
12153: 'TeeMinAngle','LongInt'( 270 );
12154: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12155: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12156: 'teeclCream','LongWord( TColor ( $F0FBFF ) );
12157: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ) );
12158: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12159: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12160: 'teeclCream','LongWord').SetUInt( TColor ( $F0FBFF ) );
12161: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ) );
12162: 'TA_LEFT','LongInt'( 0 );
12163: 'TA_RIGHT','LongInt'( 2 );
12164: 'TA_CENTER','LongInt'( 6 );
12165: 'TA_TOP','LongInt'( 0 );
12166: 'TA_BOTTOM','LongInt'( 8 );
12167: 'teePATCOPY','LongInt'( 0 );
12168: 'NumCirclePoints','LongInt'( 64 );
12169: 'teeDEFAULT_CHARSET','LongInt'( 1 );
12170: 'teeANTIALIASED_QUALITY','LongInt'( 4 );
12171: 'TA_LEFT','LongInt'( 0 );
12172: 'bs_Solid','LongInt'( 0 );
12173: 'teepf24Bit','LongInt'( 0 );
12174: 'teepfDevice','LongInt'( 1 );
12175: 'CM_MOUSELEAVE','LongInt'( 10000 );
12176: 'CM_SYSCOLORCHANGE','LongInt'( 10001 );
12177: 'DC_BRUSH','LongInt'( 18 );
12178: 'DC_PEN','LongInt'( 19 );
12179: teeCOLORREF', 'LongWord
12180: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12181: //TNotifyEvent', 'Procedure ( Sender : TObject )
12182: SIRегистrier_TFilterRegion(CL);
12183: SIRегистrier_IFormCreator(CL);
12184: SIRегистrier_TTeeFilter(CL);
12185: //TFilterClass', 'class of TTeeFilter
12186: SIRегистrier_TFilterItems(CL);
12187: SIRегистrier_TConvolveFilter(CL);
12188: SIRегистrier_TBlurFilter(CL);
12189: SIRегистrier_TTeePicture(CL);
12190: TPenEndStyle', '( esRound, esSquare, esFlat )
12191: SIRегистrier_TChartPen(CL);
12192: SIRегистrier_TChartHiddenPen(CL);
12193: SIRегистrier_TDottedGrayPen(CL);
12194: SIRегистrier_TDarkGrayPen(CL);
12195: SIRегистrier_TWhitePen(CL);
12196: SIRегистrier_TChartBrush(CL);
12197: TTeeView3DScrolled', 'Procedure ( IsHoriz : Boolean)
12198: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12199: SIRегистrier_TVew3DOptions(CL);
12200: FindClass('TOBJECT'), 'TTeeCanvas
12201: TTeeTransparency', 'Integer
12202: SIRегистrier_TTeeBlend(CL);
12203: FindClass('TOBJECT'), 'TCanvas3D
12204: SIRегистrier_TTeeShadow(CL);
12205: teeTGradientDirection', '(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )
12206: FindClass('TOBJECT'), 'TSubGradient
12207: SIRегистrier_TCustomTeeGradient(CL);

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12208: SIRегистер_TSubGradient(CL);
12209: SIRегистер_TTeeGradient(CL);
12210: SIRегистер_TTeeFontGradient(CL);
12211: SIRегистер_TTeeFont(CL);
12212: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12213: TCanvasTextAlign', 'Integer
12214: TTeeCanvasHandle', 'HDC
12215: SIRегистер_TTeeCanvas(CL);
12216: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12217: SIRегистер_TFloatXYZ(CL);
12218: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12219: TRGB', 'record blue: byte; green: byte; red: byte; end
12220: {TRGB=packed record
12221:   Blue : Byte;
12222:   Green : Byte;
12223:   Red : Byte;
12224: //$/IFDEF CLX //Alpha : Byte; // Linux end;}
12225:
12226: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12227:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12228: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12229: TCanvas3DPlane', '( cpX, cpY, cpZ )
12230: //IInterface', 'IUnknown
12231: SIRегистер_TCanvas3D(CL);
12232: SIRегистер_TTeeCanvas3D(CL);
12233: TTrianglePoints', 'Array[0..2] of TPoint;
12234: TFourPoints', 'Array[0..3] of TPoint;
12235: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12236: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12237: Function Point3D( const x, y, z : Integer) : TPoint3D
12238: Procedure SwapDouble( var a, b : Double)
12239: Procedure SwapInteger( var a, b : Integer)
12240: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12241: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12242: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12243: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12244: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12245: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12246: Procedure UnClipCanvas( ACanvas : TCanvas)
12247: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12248: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12249: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12250: 'TeeCharForHeight', 'String 'W
12251: 'DarkerColorQuantity', 'Byte').SetUInt( 128 );
12252: 'DarkColorQuantity', 'Byte').SetUInt( 64 );
12253: TButtonGetColorProc', 'Function : TColor
12254: SIRегистер_TTeeButton(CL);
12255: SIRегистер_TButtonColor(CL);
12256: SIRегистер_TComboFlat(CL);
12257: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12258: Function TeePoint( const ax, ay : Integer) : TPoint
12259: Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12260: Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12261: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12262: Function OrientRectangle( const R : TRect) : TRect
12263: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12264: Function PolygonBounds( const P : array of TPoint) : TRect
12265: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12266: Function RGBValue( const Color : TColor) : TRGB
12267: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12268: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12269: Function PointAtDistance( AFrom, ATo : TPoint; Adist : Integer) : TPoint
12270: Function TeeCull( const P : TFourPoints) : Boolean;
12271: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12272: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12273: Procedure SmoothStretch( Src, Dst : TBitmap);
12274: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12275: Function TeeDistance( const x, y : Double) : Double
12276: Function TeeLoadLibrary( const FileName : String) : HInst
12277: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12278: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12279: //Procedure TeeCalcLines( var Lines : TRGBAArray; Bitmap : TBitmap)
12280: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12281: SIRегистер_ICanvasHyperlinks(CL);
12282: SIRегистер_ICanvasToolTips(CL);
12283: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12284: end;
12285:
12286: procedure SIRегистер_ovcmisc(CL: TPSPascalCompiler);
12287: begin
12288:   TOvcHdc', 'Integer
12289:   TOvcHWND', 'Cardinal
12290:   TOvcHdc', 'HDC
12291:   TOvc HWND', 'HWND
12292: Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12293: Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR
12294: Function ovCompeStruct( const S1, S2, Size : Cardinal) : Integer
12295: Function DefaultEpoch : Integer

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12296: Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12297: Procedure FixRealPrim( P : PChar; DC : Char)
12298: Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer ) : string
12299: Function GetLeftButton : Byte
12300: Function GetNextDlgItem( Ctrl : TOvcHWnd ) : hWnd
12301: Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte)
12302: Function GetShiftFlags : Byte
12303: Function ovCreateRotatedFont( F : TFont; Angle : Integer ) : hFont
12304: Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle;Height:Integer;Ctl3D:Boolean): Integer
12305: Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet ) : string
12306: Function ovIsForegroundTask : Boolean
12307: Function ovTrimLeft( const S : string ) : string
12308: Function ovTrimRight( const S : string ) : string
12309: Function ovQuotedStr( const S : string ) : string
12310: Function ovWordCount( const S : string; const WordDelims : TCharSet ) : Integer
12311: Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12312: Function PtrDiff( const P1, P2 : PChar ) : Word
12313: Procedure PtrInc( var P, Delta : Word )
12314: Procedure PtrDec( var P, Delta : Word )
12315: Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer )
12316: Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer )
12317: Function ovMinI( X, Y : Integer ) : Integer
12318: Function ovMaxI( X, Y : Integer ) : Integer
12319: Function ovMinL( X, Y : LongInt ) : LongInt
12320: Function ovMaxL( X, Y : LongInt ) : LongInt
12321: Function GenerateComponentName( PF : TWinControl; const Root : string ) : string
12322: Function PartialCompare( const S1, S2 : string ) : Boolean
12323: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12324: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12325: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12326: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
TransparentColor : TColor )
12327: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
TransparentColor : TColorRef )
12328: Function ovWidthOf( const R : TRect ) : Integer
12329: Function ovHeightOf( const R : TRect ) : Integer
12330: Procedure ovDebugOutput( const S : string )
12331: Function GetArrowWidth( Width, Height : Integer ) : Integer
12332: Procedure StripCharSeq( CharSeq : string; var Str : string )
12333: Procedure StripCharFromEnd( aChr : Char; var Str : string )
12334: Procedure StripCharFromFront( aChr : Char; var Str : string )
12335: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12336: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12337: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12338: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12339: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12340: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12341: Function CreateMetaFile( p1 : PChar ) : HDMC
12342: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12343: Function DrawText(hDC: HDC;lpString:PChar;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12344: Function DrawTextS(hDC: HDC;lpString:string;nCount:Integer; var lpRect:TRect;uFormat:UINT):Integer
12345: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12346: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12347: Function SetMapMode( DC : HDC; p2 : Integer ) : Integer
12348: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12349: //Function SetPaletteEntries(Palette:HPalette;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12350: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12351: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : BOOL
12352: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12353: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12354: Function StretchBlt(DestDC: HDC; X, Y, Width, Height: Int; SrcDC: HDC; XSrc, YSrc, SrcWidth,
SrcHeight: Int; Rop: DWORD): BOOL
12355: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12356: Function StretchDIBits(DC : HDC; DestX, DestY, DestWidth, DestHeight, SrcX, SrcY, SrcWidth,
SrcHeight: Int; Bits: int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD) : Integer
12357: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12358: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12359: Function SetSystemPaletteUse( DC : HDC; p2 : UINT ) : UINT
12360: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12361: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12362: Function SetTextAlign( DC : HDC; Flags : UINT ) : UINT
12363: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12364: Function UpdateColors( DC : HDC ) : BOOL
12365: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12366: Function GetViewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12367: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12368: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12369: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12370: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12371: Function MaskBlt(DestDC: HDC; XDest, YDest, Width, Height: Integer; SrcDC : HDC; XScr, YScr : Integer; Mask :
HBITMAP; xMask, yMask : Integer; Rop : DWORD) : BOOL
12372: Function PlgBlt(DestDC: HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,
yMask:Int):BOOL;
12373: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12374: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12375: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD ) : BOOL
12376: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12377: Function PlayMetaFile( DC : HDC; MF : HMETAFILE ) : BOOL

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12378: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12379: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12380: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12381: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12382: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12383: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12384: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12385: end;
12386:
12387: procedure SIRegister_ovcfiler(CL: TPPSPascalCompiler);
12388: begin
12389:   SIRegister_TOvcAbstractStore(CL);
12390:   //PExPropInfo', '^TExPropInfo // will not work
12391:   // TExPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12392:   SIRegister_TOvcPropertyList(CL);
12393:   SIRegister_TOvcDataFiler(CL);
12394:   Procedure UpdateStoredlist( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean )
12395:   Procedure UpdateStoredlist1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean )
12396:   Function CreateStoredItem( const CompName, PropName : string ) : string
12397:   Function ParseStoredItem( const Item : string; var CompName, PropName : string ) : Boolean
12398:   //Function GetPropType( PropInfo : PExPropInfo ) : PTypeInfo
12399: end;
12400:
12401: procedure SIRegister_ovccoco(CL: TPPSPascalCompiler);
12402: begin
12403:   'ovsetsize','LongInt'( 16 );
12404:   'etSyntax','LongInt'( 0 );
12405:   'etSemantic','LongInt'( 1 );
12406:   'chCR','Char #13';
12407:   'chLF','Char #10';
12408:   'chLineSeparator',' chCR';
12409:   SIRegister_TCocoError(CL);
12410:   SIRegister_TCommentItem(CL);
12411:   SIRegister_TCommentList(CL);
12412:   SIRegister_TSymbolPosition(CL);
12413:   TGenListType', '( glNever, glAlways, glOnError )
12414:   TovBitSet', 'set of Integer
12415:   //PStartTable', '^TStartTable // will not work
12416:   'TovCharSet', 'set of AnsiChar
12417:   TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12418:   TCommentEvent', 'Procedure ( Sender : TObject; Commentlist : TCommentList)
12419:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12420:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12421:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP'
12422:     +'osition; const Data : string; ErrorType : integer)
12423:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12424:   TGetCH', 'Function ( pos : longint ) : char
12425:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer )
12426:   SIRegister_TCocoRScanner(CL);
12427:   SIRegister_TCocoRGrammar(CL);
12428:   '_EF','Char #0';
12429:   '_TAB','Char').SetString( #09 );
12430:   '_CR','Char').SetString( #13 );
12431:   '_LF','Char').SetString( #10 );
12432:   '_EL','').SetString( _CR );
12433:   '_EOF','Char').SetString( #26 );
12434:   'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12435:   'minErrDist','LongInt'( 2 );
12436:   Function ovPadL( S : string; ch : char; L : integer ) : string
12437: end;
12438:
12439: TFormSettings = record
12440:   CurrencyFormat: Byte;
12441:   NegCurrFormat: Byte;
12442:   ThousandSeparator: Char;
12443:   DecimalSeparator: Char;
12444:   CurrencyDecimals: Byte;
12445:   DateSeparator: Char;
12446:   TimeSeparator: Char;
12447:   ListSeparator: Char;
12448:   CurrencyString: string;
12449:   ShortDateFormat: string;
12450:   LongDateFormat: string;
12451:   TimeAMString: string;
12452:   TimePMString: string;
12453:   ShortTimeFormat: string;
12454:   LongTimeFormat: string;
12455:   ShortMonthNames: array[1..12] of string;
12456:   LongMonthNames: array[1..12] of string;
12457:   ShortDayNames: array[1..7] of string;
12458:   LongDayNames: array[1..7] of string;
12459:   TwoDigitYearCenturyWindow: Word;
12460: end;
12461:
12462: procedure SIRegister_OvcFormatSettings(CL: TPPSPascalCompiler);
12463: begin
12464:   Function ovFormatSettings : TFormSettings
12465: end;
12466:

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12467: procedure SIRegister_ovcstr(CL: TPSPascalCompiler);
12468: begin
12469:   TOvcCharSet', 'set of Char
12470:   ovBTable', 'array[0..255] of Byte
12471:   //BTable = array[0..{$IFDEF UNICODE}{$IFDEF {$ELSE}}{$ENDIF}{$ENDIF}{$ENDIF} of Byte;
12472:   Function BinaryBPChar( Dest : PChar; B : Byte ) : PChar
12473:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12474:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12475:   Procedure BMMakeTable( MatchString: PChar; var BT : ovBTable )
12476:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12477:   Function BMSearchUC(var Buffer,BufLength:Cardinal; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12478:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12479:   Function DatabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12480:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12481:   Function HexLPChar( Dest : PChar; L : LongInt ) : PChar
12482:   Function HexPtrPChar( Dest : PChar; P : TObject ) : PChar
12483:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12484:   Function LoCaseChar( C : Char ) : Char
12485:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12486:   Function StrDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12487:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal ) : PChar
12488:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12489:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)
12490:   Function StrlCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12491:   Function StrlDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12492:   Function StrlInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12493:   Function StrlInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12494:   Function StrlPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12495:   Function StrToInt( S : PChar; var I : LongInt ) : Boolean
12496:   Procedure TrimAllSpacesPChar( P : PChar )
12497:   Function TrimEmbeddedZeros( const S : string ) : string
12498:   Procedure TrimEmbeddedZerosPChar( P : PChar )
12499:   Function TrimTrailPrimPChar( S : PChar ) : PChar
12500:   Function TrimTrailingChar( Dest, S : PChar ) : PChar
12501:   Function TrimTrailingZeros( const S : string ) : string
12502:   Procedure TrimTrailingZerosPChar( P : PChar )
12503:   Function UpCaseChar( C : Char ) : Char
12504:   Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12505:   Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12506: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal) : Boolean;
12507: end;
12508:
12509: procedure SIRegister_AfUtils(CL: TPSPascalCompiler);
12510: begin
12511:   //PraiseFrame', '^TRaiseFrame // will not work
12512:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12513:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12514:   Procedure SafeCloseHandle( var Handle : THandle )
12515:   Procedure ExchangeInteger( X1, X2 : Integer )
12516:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12517:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12518:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12519:
12520: FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12521:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12522: function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12523:   function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12524:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12525:                                         SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12526:                                         const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12527:                                         var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12528:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12529:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12530:                                         SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12531:                                         AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12532:                                         ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12533:                                         var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12534:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12535:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12536:                                         SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12537:                                         AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12538:                                         ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12539:                                         var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12540: function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12541: function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12542: function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12543:                               lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12544:                               lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12545:                               dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12546:                               const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12547: function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12548:   function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12549:                           pSecurityDescriptor: PSecurityDescriptor;nLength:DWORD;var lpnLengthNeeded: DWORD):BOOL; stdcall;
12550:   function GetUserNome(lpBuffer: PKOLOChar; var nSize: DWORD): BOOL; stdcall;
12551:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLOChar;
12552:                                   dwTimeOut: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12553:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLOChar;
12554:                      dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;

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12555:     function LookupAccountName(lpSystemName, lpAccountName: PKOLChar;
12556:         Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLChar;
12557:             var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12558:     function LookupAccountSid(lpSystemName: PKOLChar; Sid: PSID;
12559:         Name: PKOLChar; var cbName: DWORD; ReferencedDomainName: PKOLChar;
12560:             var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12561:     function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLChar;
12562:         lp.DisplayName: PKOLChar; var cbDisplayname, lpLanguageId: DWORD): BOOL; stdcall;
12563:     function LookupPrivilegeName(lpSystemName: PKOLChar;
12564:         var lpLuid: TLargeInteger; lpName: PKOLChar; var cbName: DWORD): BOOL; stdcall;
12565:     function LookupPrivilegeValue(lpSystemName, lpName: PKOLChar;
12566:         var lpLuid: TLargeInteger): BOOL; stdcall;
12567:     function ObjectCloseAuditAlarm(SubsystemName: PKOLChar;
12568:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12569:     function ObjectDeleteAuditAlarm(SubsystemName: PKOLChar;
12570:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12571:     function ObjectOpenAuditAlarm(SubsystemName: PKOLChar; HandleId: Pointer;
12572:         ObjectTypeName: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12573:         ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12574:             var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12575:                 var GenerateOnClose: BOOL): BOOL; stdcall;
12576:     function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLChar;
12577:         HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12578:             var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12579:     function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12580:     function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12581:     function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12582:         ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12583:     function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12584:         lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12585:             var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12586:     function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12587:         var phkResult: HKEY): Longint; stdcall;
12588:     function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12589:         var phkResult: HKEY): Longint; stdcall;
12590:     function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12591:         Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12592:             lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12593:                 lpdwDisposition: PDWORD): Longint; stdcall;
12594:     function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12595:     function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12596:     function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12597:         var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12598:             lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12599:     function RegEnumKey(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar; cbName: DWORD): Longint; stdcall;
12600:     function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12601:         var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12602:             lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12603:     function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12604:     function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12605:     function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12606:         ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12607:     function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12608:         lpcbClass: PDWORD; lpReserved: Pointer;
12609:             lpcbSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12610:                 lpcbMaxValueNameLen, lpcbMaxValueLen, lpcbSecurityDescriptor: PDWORD;
12611:                 lpftLastWriteTime: PFileTime): Longint; stdcall;
12612:     function RegQueryMultipleValues(hKey: HKEY; var ValList;
12613:         NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12614:     function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12615:         lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12616:     function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12617:         lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12618:     function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12619:         lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12620:     function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12621:     function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12622:         lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12623:     function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12624:         dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12625:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12626:         Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12627:     function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12628:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12629:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12630:         dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12631:             dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12632:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12633:         pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12634:
12635:     Function wAddAtom( lpString : PKOLChar ) : ATOM
12636:     Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL ) : THandle
12637:         //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12638:             lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeOut : DWORD ) : BOOL
12639:             //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12640:             Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12641:                 lpString2 : PKOLChar; cchCount2 : Integer ) : Integer
12642:             Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12643:                 //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12644:                     TFNProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL

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12642: Function w.CreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12643: Function w.CreateDirectoryEx(lpTemplateDirectory,
lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttribs):BOOL;
12644: Function w>CreateEvent(lpEventAttribs:PSecurityAttrib:bManualReset,
bInitialState:BOOL;lpName:PKOLChar):THandle;
12645: Function w>CreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD:hTemplateFile:THandle ):THandle
12646: Function w>CreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; fProtect,
dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12647: Function w>CreateHardLink(lpFileName,
lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL
12648: Function CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle;
12649: Function w>CreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12650: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
Pointer;lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var
lpProcessInfo:TProcessInformation):BOOL
12651: Function w>CreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
Longint; lpName : PKOLChar) : THandle
12652: Function
wCreateWaitableTimer(lpTimerAttribs:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLChar):THandle;
12653: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12654: Function wDeleteFile( lpFileName : PKOLChar ) : BOOL
12655: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12656: //Function
wEnumCalendarInfo(lpCalInEnumProc:TFNCalInEnumProc;Locale:LCID;Calendar:CALID;CalType:CALTYPE):BOOL;
12657: //Function wEnumDateFormats(lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD) : BOOL
12658: //Function
wEnumResourceNames(hModule : HMODULE;lpType:PKOLChar;lpEnumFunc:ENUMRESNAMEPROC;lParam:Longint):BOOL;
12659: //Function wEnumResourceTypes( hModule : HMODULE; lpEnumFunc : ENUMRESTYPEPEPROC;lParam:Longint):BOOL;
12660: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD) : BOOL
12661: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD) : BOOL
12662: //Function wEnumTimeFormats(lpTimeFmtEnumProc:TFNTimeFmtEnumProc;Locale:LCID;dwFlags:DWORD):BOOL;
12663: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD ) : DWORD
12664: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar )
12665: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12666: Function wFindAtom( lpString : PKOLChar ) : ATOM
12667: Function
wFindFirstChangeNotification(lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD):THandle;
12668: Function wFindFirstFile( lpFileName : PKOLChar; var lpFindFileData : TWIN32FindData ) : THandle
12669: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFIndexInfoLevels; lpFindFileData :
Pointer; fSearchOp : TFIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12670: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData ) : BOOL
12671: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar ) : HRSRC
12672: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word ) : HRSRC
12673: Function
wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Integer):Integer;
12674: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer ) : DWORD
12675: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar ) : BOOL
12676: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12677: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD ) : BOOL
12678: Function wGetCommandLine : PKOLChar
12679: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD ) : DWORD
12680: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD ) : BOOL
12681: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD ) : DWORD
12682: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer ) : Integer
12683: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12684: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar,
lpDateStr : PKOLChar; cchDate : Integer ) : Integer
12685: //Function wGetDefaultCommConfig( lpszName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12686: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12687: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL
12688: Function wGetDriveType( lpRootPathName : PKOLChar ) : UINT
12689: Function wGetEnvironmentStrings : PKOLChar
12690: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD ) : DWORD;
12691: Function wGetFileAttributes( lpFileName : PKOLChar ) : DWORD
12692: //Function
wGetFileAttributesEx(lpFileName:PKOLChar;fInfoLevelId:TGetFileExInfoLevs;lpFileInform:Pointer):BOOL;
12693: Function wGetFullPathName(lpFileName:PKOLChar;nBufferLeng:WORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12694: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:lctype;lpLCDData:PKOLChar;cchData:Integer): Integer
12695: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12696: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD ) : DWORD
12697: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12698: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
lpCollectDataTimeOut : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12699: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt,
lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12700: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;
12701: Function
wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12702: Function wGetPrivateProfileSectionNames(lpszReturnBuffer:PKOLChar;nSize:DWORD;lpFileName:PKOLChar):DWORD;

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12703: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLChar;lpReturnedStr: PKOLChar;
nSize:DWORD; lpFileName : PKOLChar) : DWORD
12704: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12705: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12706: Function wGetProfileString(lpAppName,lpKeyName,
lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD
12707: Function wGetShortPathName( lpszLongPath:PKOLChar;lpszShortPath: PKOLChar; cchBuffer : DWORD ) : DWORD
12708: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo)
12709: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
lpCharType):BOOL
12710: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12711: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar ):UINT
12712: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12713: //Function
wGetTimeFormat(Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12714: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
12715: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
: DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12716: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12717: Function wGlobalAddAtom( lpString : PKOLChar) : ATOM
12718: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12719: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12720: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12721: Function
wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int
12722: Function wLoadLibrary( lpLibFileName : PKOLChar) : HMODULE
12723: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12724: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar) : BOOL
12725: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12726: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TfnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12727: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL;lpName:PKOLChar ) : THandle
12728: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THandle
12729: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12730: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ):THandle
12731: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12732: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12733: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
lpNumberOfEventsRead:DWORD):BOOL;
12734: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12735: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12736: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12737: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
lpNumbOfEventsRead:DWORD):BOOL;
12738: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
: TCoord; var lpReadRegion : TSmallRect ) : BOOL
12739: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12740: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12741: //Function wScrollConsoleBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12742: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12743: Function wSetComputerName( lpComputerName : PKOLChar) : BOOL
12744: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar) : BOOL
12745: Function wSetCurrentDirectory( lpPathName : PKOLChar) : BOOL
12746: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12747: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar) : BOOL
12748: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12749: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDatA : PKOLChar ) : BOOL
12750: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12751: //Function wUpdateResource(hUpdate:THandle;lpType,
lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12752: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12753: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12754: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsWritten : DWORD;
var lpNumberOfCharsWritten : DWORD; var lpReserved : Pointer) : BOOL
12755: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
var lpNumberOfEventsWritten : DWORD ) : BOOL
12756: //Function wWriteConsoleOutput( hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12757: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12758: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12759: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12760: Function wWriteProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12761: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12762: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12763: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12764: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12765: Function wlstrcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12766: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12767: Function wlstrrlen( lpString : PKOLChar ) : Integer
12768: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruc :
PNetConnectInfoStruct ) : DWORD
12769: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
lpUserName:PKOLChar;dwFlags:DWORD):DWORD;

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12770: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12771: lpUserName:PKOLChar; dwFlags : DWORD ) : DWORD
12772: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar) : DWORD
12773: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL) : DWORD
12774: //Function wWNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct) : DWORD
12775: //Function wWNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct) : DWORD
12776: //Function wWNetEnumResource(bEnum:THandle;var lpcCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12777: Function wWNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12778: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
12779: : PKOLChar; nNameBufSize : DWORD) : DWORD
12780: Function wWNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12781: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12782: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12783: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12784: lpBufferSize:DWORD):DWORD;
12785: Function wWNetGetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12786: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12787: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12788: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12789: Function wVerFindfile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
12790: lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT ) : DWORD
12791: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
12792: szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12793: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12794: Function wAddFontResource( FileName : PKOLChar ) : Integer
12795: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : Integer
12796: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12797: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12798: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12799: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12800: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC
12801: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
12802: fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
12803: fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT;
12804: Function wCreateFontIndirect( const p1 : TLogFont ) : HFONT
12805: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV ) : HFONT
12806: Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12807: Function wCreateMetaFile( p1 : PKOLChar ) : HDC
12808: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12809: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12810: pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int;
12811: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFnFontEnumProc; p4 : LPARAM ) : BOOL
12812: //Function wEnumFontFamiliesEx( DC:HDC;var p2:TLogFont;p3:TFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12813: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fntermprc:TFNFontEnumProc;lpszData:PKOLChar):Integer;
12814: //Function wEnumICMPprofiles( DC : HDC; ICMProc : TFNICMEnumProc; p3 : LPARAM ) : Integer
12815: //Function wExtTextOut( DC:HDC,X,
12816: Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12817: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12818: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts ) : BOOL
12819: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12820: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12821: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12822: //Function wGetCharacterPlacement( DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12823: Function wGetEnhMetaFile( p1 : PKOLChar ) : HENHMETAFILE
12824: //Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12825: Function wGetMetafile( p1 : PKOLChar ) : HMETAFILE
12826: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12827: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12828: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12829: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12830: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12831: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12832: //Function wGetTextMetrics( DC : HDC; var TM : TTTextMetric ) : BOOL
12833: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12834: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12835: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12836: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12837: Function wSetICMPProfile( DC : HDC; Name : PKOLChar ) : BOOL
12838: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12839: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12840: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UInt ) : BOOL
12841: Function wwglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD ) : BOOL
12842: //Function wwglUseFontOutlines(p1:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12843: Function wAppendMenu( hMenu : HMENU; uFlags, uidNewItem : UInt; lpNewItem : PKOLChar ) : BOOL
12844: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL

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12845: //Function
wCallWindowProc(lpPrevWndFunc:TFNWndProc,hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12846: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12847: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar,var lpDevMode: TDeviceMode; wnd : HWND;
dwFlags : DWORD; lParam : Pointer ) : Longint
12848: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12849: Function wCharLower( lpsz : PKOLChar ) : PKOLchar
12850: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12851: Function wCharNext( lpsz : PKOLChar ) : PKOLchar
12852: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12853: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLchar
12854: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12855: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12856: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12857: Function wCharUpper( lpsz : PKOLChar ) : PKOLchar
12858: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12859: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer ) : Integer
12860: Function wCreateAcceleratorTable( var Accel, Count : Integer ) : HACCEL
12861: //Function wCreateDesktop(lpszDesktop,
lpszDevice:PKOLChar;pDevMode:pDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12862: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12863: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12864: Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12865: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle DWWORD;X,Y,
nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInst:HINST;lpParam:Pointer):HWND
12866: //Function wCreateWindowStation(lpinsta:PKOLChar;dwReserv,
dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12867: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12868: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12869: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam: LPARAM ):LRESULT;
12870: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam: LPARAM ):LRESULT
12871: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
: HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12872: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
: TFNDlgProc; dwInitParam : LPARAM ) : Integer
12873: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12874: Function wDlgDirList(hDlg:HWND;lpPathSpec:PKOLChar;nIDLListBox,
nIDStaticPath:Integer;ufileType:UINT):Integer;
12875: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Int;ufiletype:UINT):Int;
12876: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer): BOOL
12877: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12878: //Function wDrawState(DC:HDC;Brush:HBRUSH,CBFunc:TFNDrawStateProc;lData:LPARAM;wDat:WPARA;x,y,cx,
cy:Int;Flags:UINT):BOOL;
12879: Function wDrawText(hDC:DC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12880: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12881: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12882: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int;var
pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12883: // Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLchar; var lpWndClass : TWndClass ) : BOOL
12884: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLchar; var WndClass : TWndClassEx ) : BOOL
12885: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12886: Function wGetClassName( hWnd : HWND; lpClassName : PKOLchar; nMaxCount : Integer ) : Integer
12887: Function wGetClipboardFormatName( format : UINT; lpszFormatName:PKOLchar;cchMaxCount:Integer):Integer;
12888: Function wGetDlgItemText( hDlg:HWND;nIDDlgItem:Integer;lpString:PKOLchar;nMaxCount:Integer):UINT
12889: Function wGetKeyNameText( lParam : Longint; lpString : PKOLchar; nSize : Integer ) : Integer
12890: Function wGetKeyboardLayoutName( pwszKLID : PKOLchar ) : BOOL
12891: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12892: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLchar;nMaxCount:Integer;uFlag:UINT):Integer;
12893: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
12894: Function wGetProp( hWnd : HWND; lpString : PKOLchar ) : THandle
12895: //Function wGetTabbedTextExtent( hDC : HDC; lpString : PKOLchar; nCount, nTabPositions : Integer; var
lpnTabStopPositions ) : DWORD
12896: //Function w GetUserObjectInfrom(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
lpnLengthNeed:DWORD)BOOL;
12897: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12898: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLchar; cchFileNameMax : UINT ) : UINT
12899: Function wGetWindowText( hWnd : HWND; lpString : PKOLchar; nMaxCount : Integer ) : Integer
12900: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12901: //Function wGrayString(hDC:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARAM;nCnt,X,Y,nWidt,
nHeight:Int):BOOL;
12902: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLchar ) : BOOL
12903: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12904: Function wIsCharAlpha( ch : KOLchar ) : BOOL
12905: Function wIsCharAlphaNumeric( ch : KOLchar ) : BOOL
12906: Function wIsCharLower( ch : KOLchar ) : BOOL
12907: Function wIsCharUpper( ch : KOLchar ) : BOOL
12908: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12909: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLchar ) : HACCEL
12910: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLchar ) : HBITMAP
12911: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLchar ) : HCURSOR
12912: Function wLoadCursorFromFile( lpFileName : PKOLchar ) : HCURSOR
12913: Function wLoadIcon( hInst:HINST;lpIconName : PKOLchar ) : HICON
12914: Function wLoadImage(hInst:HINST;imageName:PKOLchar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12915: Function wLoadKeyboardLayout( pwszKLID : PKOLchar; Flags : UINT ) : HKL
12916: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLchar ) : HMENU

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12917: //Function wLoadMenuIndirect( lpMenuTemplate : Pointer ) : HMENU
12918: Function wLoadString(hInstance:HINST;uID: UINT; lpBuffer :PKOLChar;nBufferMax:Integer):Integer
12919: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12920: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwHkl : HKL ) : UINT
12921: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12922: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12923: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12924: Function wModifyMenu( hMu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12925: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12926: //Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12927: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12928: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12929: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD): HDESK
12930: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD ) : HWINSTA
12931: Function wPeekMessage( var lpMsg : TMsg; hWnd: HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ) : BOOL
12932: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12933: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12934: Function wRealGetWindowClass( hwnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
12935: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12936: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12937: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UIntN
12938: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12939: Function wRegisterWindowMessage( lpString : PKOLChar ) : UIntN
12940: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12941: Function wSendDlgItemMessage( hDlg:HWND;nIDDlItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12942: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12943: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
12944: lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL
12945: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
12946: lpdwResult:DWORD) : LRESULT
12947: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12948: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12949: Function wSetDlgItemText( hDlg : HWND; nIDDlItem : Integer; lpString : PKOLChar ) : BOOL
12950: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UIntN; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12951: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
12952: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12953: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
12954: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12955: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
12956: //Function wSetWindowsHookEx( idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
12957: Function wTabbedTextOut(hdc:HDC;X,Y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
12958: lpnTabStopPositions,nTabOrigin:Int):Longint;
12959: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12960: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12961: Function wVKeyScan( ch : KOLChar ) : SHORT
12962: Function wVKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
12963: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UIntN; dwData : DWORD ) : BOOL
12964: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12965: Function wwwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
12966: //TestDrive!
12967: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL'
12968: 'PROC_CONVERTSIDTOSTRINGSSIDA','String').SetString( 'ConvertSidToStringSidA'
12969: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
12970: Function GetLocalUserSidStr( const UserName : string ) : string
12971: Function getPid4user( const domain : string; const user : string; var pid : dword ) : boolean
12972: Function Impersonate2User( const domain : string; const user : string ) : boolean
12973: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12974: Function KillProcessByName( const exename : string; var found : integer ) : integer
12975: end;
12976:
12977: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12978: begin
12979: 'AfMaxSyncSlots','LongInt'( 64 );
12980: 'AfSynchronizeTimeout','LongInt'( 2000 );
12981: TafSyncSlotID', 'DWORD
12982: TafSyncStatistics','record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end;
12983: TafSafeSyncEvent', 'Procedure ( ID : TafSyncSlotID )
12984: TafSafeDirectSyncEvent', 'Procedure
12985: Function AfNewSyncSlot( const AEvent : TafSafeSyncEvent ) : TafSyncSlotID
12986: Function AfReleaseSyncSlot( const ID : TafSyncSlotID ) : Boolean
12987: Function AfEnableSyncSlot( const ID : TafSyncSlotID; Enable : Boolean ) : Boolean
12988: Function AfValidateSyncSlot( const ID : TafSyncSlotID ) : Boolean
12989: Function AfSyncEvent( const ID : TafSyncSlotID; Timeout : DWORD ) : Boolean
12990: Function AfDirectSyncEvent( Event : TafSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
12991: Function AfIsSyncMethod : Boolean
12992: Function AfSyncWnd : HWnd
12993: Function AfSyncStatistics : TafSyncStatistics
12994: Procedure AfClearSyncStatistics
12995: end;
12996:
12997: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
12998: begin
12999: 'fBinary','LongWord')($00000001);
13000: 'fParity','LongWord')($00000002);
13001: 'fOutxCtsFlow','LongWord').SetUInt( $00000004 );
13002: 'fOutxDsrFlow','LongWord')($00000008 );

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13003: 'fDtrControl','LongWord')($00000030);
13004: 'fDtrControlDisable','LongWord')($00000000);
13005: 'fDtrControlEnable','LongWord')($00000010);
13006: 'fDtrControlHandshake','LongWord')($00000020);
13007: 'fDsrsensitivity','LongWord')($00000040);
13008: 'fTxContinueOnKoff','LongWord')($00000080);
13009: 'fOutX','LongWord')($00000100);
13010: 'fInX','LongWord')($00000200);
13011: 'fErrorChar','LongWord')($00000400);
13012: 'fNull','LongWord')($00000800);
13013: 'fRtsControl','LongWord')($00003000);
13014: 'fRtsControlDisable','LongWord')($00000000);
13015: 'fRtsControlEnable','LongWord')($00001000);
13016: 'fRtsControlHandshake','LongWord')($00002000);
13017: 'fRtsControlToggle','LongWord')($00003000);
13018: 'fAbortOnError','LongWord')($00004000);
13019: 'fDummy2','LongWord')($FFFF8000);
13020: TAfcCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13021: FindClass('TObject'), 'EAfComPortCoreError
13022: FindClass('TObject'), 'TAfComPortCore
13023: TAfcComPortCoreEvent', 'Procedure ( Sender : TAfcComPortCore; Event'
13024: +'tKind : TAfcCoreEvent; Data : DWORD)
13025: SIRegister_TAfcComPortCoreThread(CL);
13026: SIRegister_TAfcComPortEventThread(CL);
13027: SIRegister_TAfcComPortWriteThread(CL);
13028: SIRegister_TAfcComPortCore(CL);
13029: Function FormatDeviceName( PortNumber : Integer ) : string
13030: end;
13031:
13032: procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
13033: begin
13034: TAfIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13035: TAfIOFileStreamExistsEvent', 'Function ( const fileName : String ) : Boolean
13036: SIRegister_TApplicationFileIO(CL);
13037: TDataFileCapability', '( dfcRead, dfcWrite )
13038: TDataFileCapabilities', 'set of TDataFileCapability
13039: SIRegister_TDatafile(CL);
13040: //TDataFileClass', 'class of TDataFile
13041: Function ApplicationFileIODefined : Boolean
13042: Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13043: Function FileStreamExists(const fileName: String) : Boolean
13044: //Procedure Register
13045: end;
13046:
13047: procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13048: begin
13049: TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13050: +', uftCstring, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13051: +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13052: TALFBXScale', 'Integer
13053: FindClass('TObject'), 'EALFBXConvertError
13054: SIRegister_EALFBXError(CL);
13055: SIRegister_EALFBXException(CL);
13056: FindClass('TObject'), 'EALFBXGFixError
13057: FindClass('TObject'), 'EALFBXDSQLError
13058: FindClass('TObject'), 'EALFBXDynError
13059: FindClass('TObject'), 'EALFBXBakError
13060: FindClass('TObject'), 'EALFBXGSecError
13061: FindClass('TObject'), 'EALFBXLicenseError
13062: FindClass('TObject'), 'EALFBXGStatError
13063: //EALFBXExceptionClass', 'class of EALFBXError
13064: TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13065: +'37, csDOS850, csDOS852, csDOS853, csDOS860, csDOS861, csDOS863, csDOS865, '
13066: +'csEUUCJ_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13067: +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13068: +' csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13069: +'SDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13070: +'4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13071: +'8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13072: TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13073: +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13074: +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13075: +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13076: TALFBXTransParams', 'set of TALFBXTransParam
13077: Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13078: Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13079: Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13080: 'CALFBXMaxParamLength', 'LongInt'( 125 );
13081: TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13082: TALFBXParamsFlags', 'set of TALFBXParamsFlag
13083: //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13084: //PALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13085: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete, '
13086: +'stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis'
13087: +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13088: SIRegister_TALFBXSQLDA(CL);
13089: //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13090: SIRegister_TALFBXPoolStream(CL);
13091: //PALFBXBlobData', '^TALFBXBlobData // will not work

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13092: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13093: //PALFBXArrayDesc', '^TALFBXArrayDesc // will not work
13094: //TALFBXArrayDesc', 'TISCArryDesc
13095: //TALFBXBlobDesc', 'TISCBlobDesc
13096: //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13097: //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13098: SIRegister_TALFBXSQLResult(CL);
13099: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13100: SIRegister_TALFBXSQLParams(CL);
13101: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13102: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13103: +'atementType : TALFBXstatementType; end
13104: FindClass('TOBJECT'), TALFBXLibrary
13105: //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13106: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13107: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13108: +'/' Excep : EALFBXExceptionClass)
13109: SIRegister_TALFBXLibrary(CL);
13110: 'calfBXDateOffset', 'LongInt'( 15018 );
13111: 'calfBXTIMECoef', 'LongInt'( 864000000 );
13112: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double );
13113: //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp );
13114: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13115: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word )
13116: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13117: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp );
13118: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp );
13119: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp );
13120: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13121: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord ) : Cardinal
13122: TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prIgno )
13123: TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13124: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13125: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13126: end;
13127:
13128: procedure SIRegister_ALFBXClient(CL: TPSPPascalCompiler);
13129: begin
13130:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13131:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13132:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13133:   +'egeger; First : Integer; CacheThreshold : Integer; end
13134:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13135:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13136:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13137:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13138:   +'_writes : int64; page_fetches : int64; page_marks : int64; end
13139:   SIRegister_TALFBXClient(CL);
13140:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13141:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13142:   SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13143:   SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13144:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13145:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13146:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13147:   SIRegister_TALFBXConnectionPoolClient(CL);
13148:   SIRegister_TALFBXEventThread(CL);
13149:   SIRegister_TALFBXEventThread(CL);
13150:   Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13151: end;
13152:
13153: procedure SIRegister_ovcBidi(CL: TPSPPascalCompiler);
13154: begin
13155:   _OSVERSIONINFOA = record
13156:     dwOSVersionInfoSize: DWORD;
13157:     dwMajorVersion: DWORD;
13158:     dwMinorVersion: DWORD;
13159:     dwBuildNumber: DWORD;
13160:     dwPlatformId: DWORD;
13161:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13162:   end;
13163:   TOSversionInfoA', '_OSVERSIONINFOA
13164:   TOSversionInfo', 'TOSVersionInfoA
13165:   'WS_EX_RIGHT', 'LongWord')($00001000);
13166:   'WS_EX_LEFT', 'LongWord')($00000000);
13167:   'WS_EX_RTLREADING', 'LongWord')($00002000);
13168:   'WS_EX_LTRREADING', 'LongWord')($00000000);
13169:   'WS_EX_LEFTSCROLLBAR', 'LongWord')($00004000);
13170:   'WS_EX_RIGHTSCROLLBAR', 'LongWord')($00000000);
13171:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13172:   'LAYOUT_RTL', 'LongWord')($00000001);
13173:   'LAYOUT_BTT', 'LongWord')($00000002);
13174:   'LAYOUT_VBH', 'LongWord')($00000004);
13175:   'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord')($00000008);
13176:   'NOMIRRORBITMAP', 'LongWord')($00000000);
13177:   Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13178:   Function GetLayout( dc : hdc ) : DWORD
13179:   Function IsBidi : Boolean
13180:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL

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13181: Function GetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
13182: Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD) : BOOL
13183: Function GetPriorityClass( hProcess : THandle) : DWORD
13184: Function OpenClipboard( hWndNewOwner : HWND) : BOOL
13185: Function CloseClipboard : BOOL
13186: Function GetClipboardSequenceNumber : DWORD
13187: Function GetClipboardOwner : HWND
13188: Function SetClipboardViewer( hWndNewViewer : HWND) : HWND
13189: Function GetClipboardViewer : HWND
13190: Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND) : BOOL
13191: Function SetClipboardData( uFormat : UINT; hMem : THandle) : THandle
13192: Function GetClipboardData( uFormat : UINT) : THandle
13193: Function RegisterClipboardFormat( lpszFormat : PChar) : UINT
13194: Function CountClipboardFormats : Integer
13195: Function EnumClipboardFormats( format : UINT) : UINT
13196: Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13197: Function EmptyClipboard : BOOL
13198: Function IsClipboardFormatAvailable( format : UINT) : BOOL
13199: Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer) : Integer
13200: Function GetOpenClipboardWindow : HWND
13201: Function EndDialog( hDlg : HWND; nResult : Integer) : BOOL
13202: Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer) : HWND
13203: Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13204: Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13205: Function SetDlgItemText( hDlg : HWND; nIDButton : Integer; lpString : PChar) : BOOL
13206: Function CheckDlgButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer) : BOOL
13207: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer) : BOOL
13208: Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer) : UINT
13209: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13210: end;
13211:
13212: procedure SIRegister_DXPUtils(CL: TPSPascalCompiler);
13213: begin
13214:   Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13215:   Function GetTemporaryFilesPath : String
13216:   Function GetTemporaryFileName : String
13217:   Function FindFileInPaths( const fileName, paths : String) : String
13218:   Function PathsToString( const paths : TStrings) : String
13219:   Procedure StringToPaths( const pathsString : String; paths : TStrings)
13220: //Function MacroExpandPath( const aPath : String) : String
13221: end;
13222:
13223: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13224: begin
13225:   SIRegister_TALMultiPartBaseContent(CL);
13226:   SIRegister_TALMultiPartBaseContents(CL);
13227:   SIRegister_TALMultiPartBaseStream(CL);
13228:   SIRegister_TALMultiPartBaseEncoder(CL);
13229:   SIRegister_TALMultiPartBaseDecoder(CL);
13230:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString) : AnsiString
13231:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13232:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13233: end;
13234:
13235: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13236: begin
13237:   TdriveSize', 'record FreeS : Int64; TotalsS : Int64; end
13238:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13239:   +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13240:   Function aAllocPadedMem( Size : Cardinal) : TObject
13241:   Procedure aFreePadedMem( var P : TObject);
13242:   Procedure aFreePadedMem( var P : PChar);
13243:   Function aCheckPadedMem( P : Pointer) : Byte
13244:   Function aGetPadMemSize( P : Pointer) : Cardinal
13245:   Function aAllocMem( Size : Cardinal) : Pointer
13246:   Function aStrLen( const Str : PChar) : Cardinal
13247:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal) : PChar
13248:   Function aStrECopy( Dest : PChar; const Source : PChar) : PChar
13249:   Function aStrCopy( Dest : PChar; const Source : PChar) : PChar
13250:   Function aStrEnd( const Str : PChar) : PChar
13251:   Function aStrScan( const Str : PChar; aChr : Char) : PChar
13252:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal) : PChar
13253:   Function aPCharLength( const Str : PChar) : Cardinal
13254:   Function aPCharUpper( Str : PChar) : PChar
13255:   Function aPCharLower( Str : PChar) : PChar
13256:   Function aStrCat( Dest : PChar; const Source : PChar) : PChar
13257:   Function aLastDelimiter( const Delimiters, S : String) : Integer
13258:   Function aCopyTail( const S : String; Len : Integer) : String
13259:   Function aInt2Thos( I : Int64) : String
13260:   Function aUpperCase( const S : String) : String
13261:   Function aLowerCase( const S : string) : String
13262:   Function aCompareText( const S1, S2 : string) : Integer
13263:   Function aSameText( const S1, S2 : string) : Boolean
13264:   Function aInt2Str( Value : Int64) : String
13265:   Function aStr2Int( const Value : String) : Int64
13266:   Function aStr2IntDef( const S : string; Default : Int64) : Int64
13267:   Function aGetFileExt( const FileName : String) : String
13268:   Function aGetFilePath( const FileName : String) : String
13269:   Function aGetFileName( const FileName : String) : String

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13270: Function aChangeExt( const FileName, Extension : String ) : String
13271: Function aAdjustLineBreaks( const S : string ) : string
13272: Function aGetWindowStr( WinHandle : HWND ) : String
13273: Function aDiskSpace( Drive : String ) : TdriveSize
13274: Function aFileExists( FileName : String ) : Boolean
13275: Function aFileSize( FileName : String ) : Int64
13276: Function aDirectoryExists( const Name : string ) : Boolean
13277: Function aSysErrorMessage( ErrorCode : Integer ) : string
13278: Function aShortPathName( const LongName : string ) : string
13279: Function aGetWindowVer : TWinVerRec
13280: procedure InitDriveSpacePtr;
13281: end;
13282:
13283: procedure SIRegister_MakeApp(CL: TPSPascalCompiler);
13284: begin
13285:   aZero', 'LongInt'( 0 );
13286:   'makeappDEF', 'LongInt'( - 1 );
13287:   'CS_VREDRAW', 'LongInt'( DWORD ( 1 ) );
13288:   'CS_HREDRAW', 'LongInt'( DWORD ( 2 ) );
13289:   'CS_KEYCVTWINDOW', 'LongInt'( 4 );
13290:   'CS_DBLCLKS', 'LongInt'( 8 );
13291:   'CS_OWNDC', 'LongWord')( $20 );
13292:   'CS_CLASSDC', 'LongWord')( $40 );
13293:   'CS_PARENTDC', 'LongWord')( $80 );
13294:   'CS_NOKEYCWT', 'LongWord')( $100 );
13295:   'CS_NOCLOSE', 'LongWord')( $200 );
13296:   'CS_SAVEBITS', 'LongWord')( $800 );
13297:   'CS_BYTEALIGNCLIENT', 'LongWord')( $1000 );
13298:   'CS_BYTEALIGNWINDOW', 'LongWord')( $2000 );
13299:   'CS_GLOBALCLASS', 'LongWord')( $4000 );
13300:   'CS_IME', 'LongWord')( $10000 );
13301:   'CS_DROPSHADOW', 'LongWord')( $20000 );
13302:   //TPanelFunc', 'TPanelFunc // will not work
13303:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13304:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13305:   TFontLooks', 'set of TFontLook
13306: TMessagefunc', 'function(hWnd,iMsg,wParam:lParam:Integer):Integer
13307: Function SetWinClass(const ClassName:String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13308: Function SetWinClassO( const ClassName : String; pMessFunc : Tobject; wcStyle : Integer): Word
13309: Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer ) : Word
13310: Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13311: Procedure RunMsgLoop( Show : Boolean )
13312: Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13313: Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
  ID_Number:Cardinal;hFont:Int):Int;
13314: Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13315: Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13316: Function MakePanel(Left,Top,Width,Height,
  hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13317: Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13318: Function id4menu( a, b : Byte; c : Byte; d : Byte ) : Cardinal
13319: Procedure DoInitMakeApp //set first to init formclasscontrol!
13320: end;
13321:
13322: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13323: begin
13324:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13325:   +'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13326:   TScreenSaverOptions', 'set of TScreenSaverOption
13327:   'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
  ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13328:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13329:   SIRegister_TScreensaver(CL);
13330:   //Procedure Register
13331:   Procedure SetScreenSaverPassword
13332:   end;
13333:
13334: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13335: begin
13336:   FindClass('TOBJECT'), 'TXCollection
13337:   SIRegister_EFilerException(CL);
13338:   SIRegister_TXCollectionItem(CL);
13339:   //TXCollectionItemClass', 'class of TXCollectionItem
13340:   SIRegister_TXCollection(CL);
13341:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13342:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13343:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13344:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13345:   Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13346:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13347:   end;
13348:
13349: procedure SIRegister_XOpenGL(CL: TPSPascalCompiler);
13350: begin
13351:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13352:   Procedure xglMapTexCoordToNull
13353:   Procedure xglMapTexCoordToMain
13354:   Procedure xglMapTexCoordToSecond
13355:   Procedure xglMapTexCoordToDual

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13356: Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal);
13357: Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal);
13358: Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal)
13359: Procedure xglBeginUpdate
13360: Procedure xglEndUpdate
13361: Procedure xglPushState
13362: Procedure xglPopState
13363: Procedure xglForbidSecondTextureUnit
13364: Procedure xglAllowSecondTextureUnit
13365: Function xglGetBitWiseMapping : Cardinal
13366: end;
13367:
13368: procedure SIRegister_VectorLists(CL: TPSPPascalCompiler);
13369: begin
13370:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory)
13371:   TBaseListOptions', 'set of TBaseListOption
13372:   SIRegister_TBaseList(CL);
13373:   SIRegister_TBaseVectorList(CL);
13374:   SIRegister_TAffineVectorList(CL);
13375:   SIRegister_TVectorList(CL);
13376:   SIRegister_TTexPointList(CL);
13377:   SIRegister_TXIntegerList(CL);
13378:   //PSingleArrayList', '^TSingleArrayList // will not work
13379:   SIRegister_TSingleList(CL);
13380:   SIRegister_TByteList(CL);
13381:   SIRegister_TQuaternionList(CL);
13382:   Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13383:   Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13384:   Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13385: end;
13386:
13387: procedure SIRegister_MeshUtils(CL: TPSPPascalCompiler);
13388: begin
13389:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13390:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13391:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13392:   Procedure ConvertIndexedListToList( const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList);
13393:   Function BuildVectorCountOptimizedIndices( const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList
13394:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13395:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13396:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList )
13397:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13398:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13399:   Procedure RemapIndices( indices, indicesMap : TIntegerList )
13400:   Procedure UnifyTrianglesWinding( indices : TIntegerList )
13401:   Procedure InvertTrianglesWinding( indices : TIntegerList )
13402:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13403:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList ) : TIntegerList
13404:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single )
13405:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean);
TPersistentObjectList;
13406:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13407:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices :
TIntegerList; normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13408: end;
13409:
13410: procedure SIRegister_JclSysUtils(CL: TPSPPascalCompiler);
13411: begin
13412:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte )
13413:   Procedure FreeMemAndNil( var P : TObject )
13414:   Function PCharOrNil( const S : string ) : PChar
13415:   SIRegister_TJclReferenceMemoryStream(CL);
13416:   FindClass('TOBJECT'), EJclVMTError
13417:   {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13418:   Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13419:   Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer )
13420:   PDynamicIndexList', '^TDynamicIndexList // will not work
13421:   PDynamicAddressList', '^TDynamicAddressList // will not work
13422:   Function GetDynamicMethodCount( AClass : TClass ) : Integer
13423:   Function GetDynamicIndexList( AClass : TClass ) : PDynamicIndexList
13424:   Function GetDynamicAddressList( AClass : TClass ) : PDynamicAddressList
13425:   Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13426:   Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13427:   Function GetInitTable( AClass : TClass ) : PTypeInfo
13428:   PFieldEntry', '^TFieldEntry // will not work
13429:   TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13430:   Function JIsClass( Address : Pointer ) : Boolean
13431:   Function JIsObject( Address : Pointer ) : Boolean
13432:   Function GetImplementorOfInterface( const I : IInterface ) : TObject
13433:   TdigitCount', 'Integer
13434:   SIRegister_TJclNumericFormat(CL);
13435:   Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13436:   TTextHandler', 'Procedure ( const Text : string )
13437: // 'ABORT_EXIT_CODE', 'LongInt'( ERROR_CANCELLED 1223);

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13438: Function JExecute(const
13439:   CommandLine:string;OutputLineCallback:TTextHandler;RawOutput:Bool;AbortPtr:PBool):Card;
13440: Function JExecute1(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13441: Function ReadKey : Char //to and from the DOS console !
13442:   TModuleHandle', 'HINST
13443:   //TModuleHandle', 'Pointer
13443:   'INVALID_MODULEHANDLE_VALUE', 'LongInt'( TModuleHandle ( 0 ));
13444: Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13445: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13446: Procedure UnloadModule( var Module : TModuleHandle )
13447: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13448: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13449: Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size: Cardinal):Boolean;
13450: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13451: FindClass('TOBJECT'),'EJclConversionError
13452: Function JStrToBoolean( const S : string ) : Boolean
13453: Function JBooleanToStr( B : Boolean ) : string
13454: Function JIntToBool( I : Integer ) : Boolean
13455: Function JBoolToInt( B : Boolean ) : Integer
13456: 'ListSeparator','String '
13457: 'ListSeparator1','String :
13458: Procedure ListAddItems( var List : string; const Separator, Items : string )
13459: Procedure ListIncludeItems( var List : string; const Separator, Items : string )
13460: Procedure ListRemoveItems( var List : string; const Separator, Items : string )
13461: Procedure ListDelItem( var List : string; const Separator : string; const Index : Integer )
13462: Function ListItemCount( const List, Separator : string ) : Integer
13463: Function ListItem( const List, Separator : string; const Index : Integer ) : string
13464: Procedure ListItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13465: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13466: Function SystemToObjectInstance : LongWord
13467: Function IsCompiledWithPackages : Boolean
13468: Function JJclGUIDToString( const GUID : TGUID ) : string
13469: Function JJclStringToGUID( const S : string ) : TGUID
13470: SIRegister_TJclIntfCriticalSection(CL);
13471: SIRegister_TJclSimpleLog(CL);
13472: Procedure InitSimpleLog( const ALogFile : string )
13473: end;
13474:
13475: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13476: begin
13477:   FindClass('TOBJECT'),'EJclBorRADException
13478:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )'
13479:   TJclBorRADToolEdition', '( deOPEN, dePRO, desVR )'
13480:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )'
13481:   TJclBorRADToolPath', 'string
13482:   'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11 );
13483:   'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11 );
13484:   'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5 );
13485: BorRADToolRepositoryPagesSection','String 'Repository Pages
13486: BorRADToolRepositoryDialogsPage','String 'Dialogs
13487: BorRADToolRepositoryFormsPage','String 'Forms
13488: BorRADToolRepositoryProjectsPage','String 'Projects
13489: BorRADToolRepositoryDataModulesPage','String 'Data Modules
13490: BorRADToolRepositoryObjectType','String 'Type
13491: BorRADToolRepositoryFormTemplate','String 'FormTemplate
13492: BorRADToolRepositoryProjectTemplate','String 'ProjectTemplate
13493: BorRADToolRepositoryObjectName','String 'Name
13494: BorRADToolRepositoryObjectPage','String 'Page
13495: BorRADToolRepositoryObjectIcon','String 'Icon
13496: BorRADToolRepositoryObjectDescr','String 'Description
13497: BorRADToolRepositoryObjectAuthor','String 'Author
13498: BorRADToolRepositoryObjectAncestor','String 'Ancestor
13499: BorRADToolRepositoryObjectDesigner','String 'Designer
13500: BorRADToolRepositoryDesignerDfm','String 'dfm
13501: BorRADToolRepositoryDesignerXfm','String 'xfm
13502: BorRADToolRepositoryObjectNewForm','String 'DefaultNewForm
13503: BorRADToolRepositoryObjectMainForm','String 'DefaultMainForm
13504: SourceExtensionDelphiPackage','String '.dpk
13505: SourceExtensionBCBPackage','String '.bpk
13506: SourceExtensionDelphiProject','String '.dpr
13507: SourceExtensionBCBProject','String '.bpr
13508: SourceExtensionBDSProject','String '.bdsproj
13509: SourceExtensionDProject','String '.dproj
13510: BinaryExtensionPackage','String '.bpl
13511: BinaryExtensionLibrary','String '.dll
13512: BinaryExtensionExecutable','String '.exe
13513: CompilerExtensionDCP','String '.dcp
13514: CompilerExtensionBPI','String '.bpi
13515: CompilerExtensionLIB','String '.lib
13516: CompilerExtensionTDS','String '.tds
13517: CompilerExtensionMAP','String '.map
13518: CompilerExtensionDRC','String '.drc
13519: CompilerExtensionDEF','String '.def
13520: SourceExtensionCPP','String '.cpp
13521: SourceExtensionH','String '.h
13522: SourceExtensionPAS','String '.pas
13523: SourceExtensionDFM','String '.dfm
13524: SourceExtensionXFM','String '.xfm
13525: SourceDescriptionPAS','String 'Pascal source file

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13526: SourceDescriptionCPP', 'String 'C++ source file
13527: DesignerVCL', 'String 'VCL
13528: DesignerCLX', 'String 'CLX
13529: ProjectTypePackage', 'String 'package
13530: ProjectTypeLibrary', 'String 'library
13531: ProjectTypeProgram', 'String 'program
13532: Personality32Bit', 'String '32 bit
13533: Personality64Bit', 'String '64 bit
13534: PersonalityDelphi', 'String 'Delphi
13535: PersonalityDelphiDotNet', 'String 'Delphi.net
13536: PersonalityBCB', 'String 'C++Builder
13537: PersonalityCSB', 'String 'C#Builder
13538: PersonalityVB', 'String 'Visual Basic
13539: PersonalityDesign', 'String 'Design
13540: PersonalityUnknown', 'String 'Unknown personality
13541: PersonalityBDS', 'String 'Borland Developer Studio
13542: DOFDirectoriesSection', 'String 'Directories
13543: DOFUnitOutputDirKey', 'String 'UnitOutputDir
13544: DOFSearchPathName', 'String 'SearchPath
13545: DOFConditionals', 'String 'Conditionals
13546: DOFLinkerSection', 'String 'Linker
13547: DOFPackagesKey', 'String 'Packages
13548: DOFCompilerSection', 'String 'Compiler
13549: DOFPackageNoLinkKey', 'String 'PackageNoLink
13550: DOFAdditionalSection', 'String 'Additional
13551: DOFOptionsKey', 'String 'Options
13552: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13553: +'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13554: +'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13555: TJclBorPersonalities', 'set of TJclBorPersonality
13556: TJclBorDesigner', '( bdVCL, bdCLX )
13557: TJclBorDesigners', 'set of TJclBorDesigner
13558: TJclBorPlatform', '( bp32bit, bp64bit )
13559: FindClass('TOBJECT'), 'TJclBorRADToolInstallation
13560: SIRegister_TJclBorRADToolInstallationObject(CL);
13561: SIRegister_TJclBorLandOpenHelp(CL);
13562: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13563: TJclHelp2Objects', 'set of TJclHelp2Object
13564: SIRegister_TJclHelp2Manager(CL);
13565: SIRegister_TJclBorRADToolIDETool(CL);
13566: SIRegister_TJclBorRADToolIDEPackages(CL);
13567: SIRegister_IJclCommandLineTool(CL);
13568: FindClass('TOBJECT'), 'EJclCommandLineToolError
13569: SIRegister_TJclCommandLineTool(CL);
13570: SIRegister_TJclBorLandCommandLineTool(CL);
13571: SIRegister_TJclBCC32(CL);
13572: SIRegister_TJclDCC32(CL);
13573: TJclDCC', 'TJclDCC32
13574: SIRegister_TJclBpr2Mak(CL);
13575: SIRegister_TJclBorLandMake(CL);
13576: SIRegister_TJclBorRADToolPalette(CL);
13577: SIRegister_TJclBorRADToolRepository(CL);
13578: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13579: TCommandLineTools', 'set of TCommandLineTool
13580: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13581: SIRegister_TJclBorRADToolInstallation(CL);
13582: SIRegister_TJclBCBInstallation(CL);
13583: SIRegister_TJclDelphiInstallation(CL);
13584: SIRegister_TJclDCCIL(CL);
13585: SIRegister_TJclBDSInstallation(CL);
13586: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13587: SIRegister_TJclBorRADToolInstallations(CL);
13588: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13589: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13590: Function IsDelphiPackage( const FileName : string ) : Boolean
13591: Function IsDelphiProject( const FileName : string ) : Boolean
13592: Function IsBCBPackage( const FileName : string ) : Boolean
13593: Function IsBCBProject( const FileName : string ) : Boolean
13594: Procedure GetDPRFileInfo( const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString );
13595: Procedure GetBPRFileInfo( const BPRFileName:string;out BinaryFileName:string;const Descript:PString );
13596: Procedure GetDPKFileInfo( const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13597: Procedure GetBPKFileInfo( const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13598: function SamePath(const Path1, Path2: string): Boolean;
13599: end;
13600:
13601: procedure SIRegister_JclFileUtils_max(CL: TPSPascalCompiler);
13602: begin
13603:   'ERROR_NO_MORE_FILES', LongInt( 18 );
13604:   //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13605:   //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13606:   //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13607:   'LPathSeparator','String '/'
13608:   'LDirDelimiter','String '
13609:   'LDirSeparator','String '
13610:   'JXPathDevicePrefix','String '\.\.
13611:   'JXPathSeparator','String \
13612:   'JXDirDelimiter','String \

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13613: 'JXDirSeparator','String ';
13614: 'JXPathUncPrefix','String '\\
13615: 'faNormalFile','LongWord')($$00000080);
13616: //faUnixSpecific,'faSymLink';
13617: JXTCompactPath', '( cpCenter, cpEnd )
13618: _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13619: +'tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime : '
13620: +' TFileTime; nfileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13621: TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13622: WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13623:
13624: Function jxPathAddSeparator( const Path : string ) : string
13625: Function jxPathAddExtension( const Path, Extension : string ) : string
13626: Function jxPathAppend( const Path, Append : string ) : string
13627: Function jxPathBuildRoot( const Drive : Byte ) : string
13628: Function jxPathCanonicalize( const Path : string ) : string
13629: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13630: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13631: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
13632: Function jxPathExtractFileDirName( const S : string ) : string
13633: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13634: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13635: Function jxPathGetDepth( const Path : string ) : Integer
13636: Function jxPathGetLongName( const Path : string ) : string
13637: Function jxPathGetShortName( const Path : string ) : string
13638: Function jxPathGetLongName( const Path : string ) : string
13639: Function jxPathGetShortName( const Path : string ) : string
13640: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13641: Function jxPathGetTempPath : string
13642: Function jxPathIsAbsolute( const Path : string ) : Boolean
13643: Function jxPathIsChild( const Path, Base : string ) : Boolean
13644: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13645: Function jxPathIsUNC( const Path : string ) : Boolean
13646: Function jxPathRemoveSeparator( const Path : string ) : string
13647: Function jxPathRemoveExtension( const Path : string ) : string
13648: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13649: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13650: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13651: JxTFileListOptions', 'set of TFileListOption
13652: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13653: TFileHandler', 'Procedure ( const FileName : string )
13654: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec )
13655: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13656: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFFileMatchFunc):Bool;
13657: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13658: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13659: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13660: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13661: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13662: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13663: Procedure jxCreatEmptyFile( const FileName : string )
13664: Function jxCloseVolume( var Volume : THandle ) : Boolean
13665: Function jxDelteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13666: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13667: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13668: Function jxDelTree( const Path : string ) : Boolean
13669: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13670: Function jxDiskInDrive( Drive : Char ) : Boolean
13671: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13672: Function jxFileCreateTemp( var Prefix : string ) : THandle
13673: Function jxFilBackup( const FileName : string; Move : Boolean ) : Boolean
13674: Function jxFilCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13675: Function jxFilDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13676: Function jxFilExists( const FileName : string ) : Boolean
13677: Function jxFilMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13678: Function jxFilRestore( const FileName : string ) : Boolean
13679: Function jxGetBackupFileName( const FileName : string ) : string
13680: Function jxIsBackupFileName( const FileName : string ) : Boolean
13681: Function jxFilGetDisplayName( const FileName : string ) : string
13682: Function jxFilGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13683: Function jxFilGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13684: Function jxFilGetSize( const FileName : string ) : Int64
13685: Function jxFilGetTempName( const Prefix : string ) : string
13686: Function jxFilGetType( const FileName : string ) : string
13687: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13688: Function jxForceDirectories( Name : string ) : Boolean
13689: Function jxGetDirectorySize( const Path : string ) : Int64
13690: Function jxGetDriveTypeStr( const Drive : Char ) : string
13691: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13692: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13693: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13694: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13695: Function jxGetFileInfo( const FileName : string ) : TSearchRec;
13696: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
ResolveSymLinks:Boolean):Integer

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13697: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13698: Function jxGetFileLastWrite1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13699: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13700: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13701: Function jxGetFileCreation( const FName : string ) : TFileTime;
13702: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13703: Function jxGetFileLastWrite( const FName : string; out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13704: Function jxGetFileLastWrite1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13705: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13706: Function jxGetFileLastAccess( const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool): Bool;
13707: Function jxGetFileLastAccess1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13708: Function jxGetFileLastAccess2( const FName:string; ResolveSymLinks:Boolean): Integer;
13709: Function jxGetFileLastAttrChange( const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13710: Function jxGetFileLastAttrChange1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13711: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks: Boolean ) : Integer;
13712: Function jxGetModulePath( const Module : HMODULE ) : string;
13713: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13714: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13715: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13716: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileInfoAttributeData;
13717: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean;
13718: Function jxIsRootDirectory( const CanonicFileName : string ) : Boolean;
13719: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean;
13720: Function jxOpenVolume( const Drive : Char ) : THandle;
13721: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean;
13722: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean;
13723: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean;
13724: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean;
13725: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean;
13726: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean;
13727: Procedure jxShredfile( const FileName : string; Times : Integer );
13728: Function jxUnlockVolume( var Handle : THandle ) : Boolean;
13729: Function jxCreateSymbolicLink( const Name, Target : string ) : Boolean;
13730: Function jxSymbolicLinkTarget( const Name : string ) : string;
13731: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )';
13732: SIRegister_TJclCustomFileAttrMask(CL);
13733: SIRegister_TJclFileAttributeMask(CL);
13734: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS' + 'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)';
13735: TFileSearchOptions', 'set of TFileSearchOption;
13736: TFileSearchTaskID', 'Integer;
13737: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc' + 'hTaskID; const Aborted : Boolean )';
13738: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )';
13739: SIRegister_IJclFileEnumerator(CL);
13740: SIRegister_TJclFileVersionInfo(CL);
13741: SIRegister_TJclFileEnumerator(CL);
13742: SIRegister_TJclFileVersionInfo(CL);
13743: Function JxFileSearch : IJclFileEnumerator;
13744: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )';
13745: JxTFileFlags', 'set of TFileFlag;
13746: FindClass('TOBJECT'), 'EJclFileVersionInfoError;
13747: SIRegister_TJclFileVersionInfo(CL);
13748: Function jxOSIdentToString( const OSIdent : DWORD ) : string;
13749: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string;
13750: Function jxVersionResourceAvailable( const FileName : string ) : Boolean;
13751: TFileVersionFormat', '( vfMajorMinor, vfFull )';
13752: Function jxFormatVersionString( const HiV, LoV : Word ) : string;
13753: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13754: //Function FormatVersionString2( const FileInfo : TVSFixedFileInfo; VersionFormat:TFFileVersionFormat):str;
13755: //Procedure VersionExtractFileInfo(const FileInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13756: //Procedure VersionExtractProductInfo(const FileInfo:TVSFixedFileInfo;var Major,Minor,Build, Revision:Word);
13757: //Function VersionFixedFileInfo( const FileName : string; var FileInfo : TVSFixedFileInfo ) : Boolean;
13758: Function jxVersionFixedFileToString( const FileName : string; VersionFormat : TFFileVersionFormat; const NotAvailableText : string ) : string;
13759: SIRegister_TJclTempFileStream(CL);
13760: FindClass('TOBJECT'), 'TJclCustomFileMapping;
13761: SIRegister_TJclFileMapView(CL);
13762: TJclFileMappingRoundOffset', '( rvDown, rvUp )';
13763: SIRegister_TJclCustomFileMapping(CL);
13764: SIRegister_TJclFileMapping(CL);
13765: SIRegister_TJclSwapFileMapping(CL);
13766: SIRegister_TJclFileMappingStream(CL);
13767: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )';
13768: //PPCharArray', '^TPCharArray // will not work
13769: SIRegister_TJclMappedTextReader(CL);
13770: SIRegister_TJclFileMaskComparator(CL);
13771: FindClass('TOBJECT'), 'EJclPathError;
13772: FindClass('TOBJECT'), 'EJclFileUtilsError;
13773: FindClass('TOBJECT'), 'EJclTempFileStreamError;
13774: FindClass('TOBJECT'), 'EJclTempFileStreamError;
13775: FindClass('TOBJECT'), 'EJclFileMappingError;
13776: FindClass('TOBJECT'), 'EJclFileMappingViewError;
13777: Function jxPathGetLongName2( const Path : string ) : string;
13778: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean;
13779: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstfileName : string ) : Boolean;
13780: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean;
13781: Function jxWin32RestoreFile( const FileName : string ) : Boolean;
13782: Function jxSamePath( const Path1, Path2 : string ) : Boolean;
13783: Procedure jxPathListAddItems( var List : string; const Items : string );

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13784: Procedure jxPathListIncludeItems( var List : string; const Items : string)
13785: Procedure jxPathListDeleteItems( var List : string; const Items : string)
13786: Procedure jxPathListDeleteItem( var List : string; const Index : Integer)
13787: Function jxPathListItemCount( const List : string) : Integer
13788: Function jxPathListGetItem( const List : string; const Index : Integer) : string
13789: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string)
13790: Function jxPathListItemIndex( const List, Item : string) : Integer
13791: Function jxParamName(Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string;
13792: Function jxParamValue(Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13793: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
  AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13794: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
  AllowedPrefixCharacters : string) : Integer
13795: end;
13796:
13797: procedure SIRRegister_FileUtil(CL: TPSCompiler);
13798: begin
13799:   'UTF8FileHeader','String #$ef#$bb#$bf';
13800:   Function lCompareFilenames( const Filenam1, Filenam2 : string) : integer
13801:   Function lCompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string) : integer
13802:   Function lCompareFilenames( const Filenam1, Filenam2 : string; ResolveLinks : boolean) : integer
13803:   Function lCompareFilenames(Filenam1:PChar;Len1:int;Filenam2:PChar;Len2:int;ResolveLinks:boolean):int;
13804:   Function lFilenameIsAbsolute( const TheFilename : string) : boolean
13805:   Function lFilenameIsWinAbsolute( const TheFilename : string) : boolean
13806:   Function lFilenameIsUnixAbsolute( const Thefilename : string) : boolean
13807:   Procedure lCheckIfFileIsExecutable( const Afilename : string)
13808:   Procedure lCheckIfFileIsSymlink( const Afilename : string)
13809:   Function lFileIsReadable( const Afilename : string) : boolean
13810:   Function lFileIsWritable( const Afilename : string) : boolean
13811:   Function lFileIsText( const Afilename : string) : boolean
13812:   Function lFileIsText( const Afilename : string; out FileReadable : boolean) : boolean
13813:   Function lFileIsExecutable( const Afilename : string) : boolean
13814:   Function lFileIsSymlink( const Afilename : string) : boolean
13815:   Function lFileIsHardLink( const Afilename : string) : boolean
13816:   Function lFileSize( const Filenam : string) : int64;
13817:   Function lGetFileDescription( const Afilename : string) : string
13818:   Function lReadAllLinks( const Filenam : string; ExceptionOnError : boolean) : string
13819:   Function lTryReadAllLinks( const Filenam : string) : string
13820:   Function lDirPathExists( const FileName : String) : Boolean
13821:   Function lForceDirectory( DirectoryName : string) : boolean
13822:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean) : boolean
13823:   Function lProgramDirectory : string
13824:   Function lDirectoryIsWritable( const DirectoryName : string) : boolean
13825:   Function lExtractFileNameOnly( const Afilename : string) : string
13826:   Function lExtractFileNameWithoutExt( const Afilename : string) : string
13827:   Function lCompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean) : integer;
13828:   Function lCompareFileExt( const Filenam, Ext : string) : integer;
13829:   Function lFilenameIsPascalUnit( const Filenam : string) : boolean
13830:   Function lAppendPathDelim( const Path : string) : string
13831:   Function lChompPathDelim( const Path : string) : string
13832:   Function lTrimFilename( const Afilename : string) : string
13833:   Function lCleanAndExpandFilename( const Filenam : string) : string
13834:   Function lCleanAndExpandDirectory( const Filenam : string) : string
13835:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
13836:   Function lCreateRelativePath( const Filenam, BaseDirectory : string; UsePointDirectory : boolean;
  AlwaysRequireSharedBaseFolder : Boolean) : string
13837:   Function lCreateAbsolutePath( const Filenam, BaseDirectory : string) : string
13838:   Function lFileIsInPath( const Filenam, Path : string) : boolean
13839:   Function lFileIsInDirectory( const Filenam, Directory : string) : boolean
13840:   TSearchFileInPathFlag', '( sffDontSearchInBasePath, sffSearchLoUpCase )
13841:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13842:   'AllDirectoryEntriesMask','String '*
13843:   Function l GetAllFilesMask : string
13844:   Function lGetExeExt : string
13845:   Function lSearchFileInPath( const Filenam, basePath, SearchPath, Delimiter : string; Flags :
  TSearchFileInPathFlags) : string
13846:   Function lSearchAllFilesInPath( const Filenam, basePath, SearchPath, Delimiter:string;Flags :
  TSearchFileInPathFlags) : TStringList
13847:   Function lFindDiskFilename( const Filenam : string) : string
13848:   Function lFindDiskFileCaseInsensitive( const Filenam : string) : string
13849:   Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13850:   Function lGetDarwinSystemFilename( Filenam : string) : string
13851:   SIRRegister_TFileIterator(CL);
13852:   TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13853:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13854:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator)
13855:   SIRRegister_TFileSearcher(CL);
13856:   Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13857:   Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
13858: // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13859: // TCopyFileFlags', 'set of TCopyFileFlag
13860:   Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13861:   Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13862:   Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13863:   Function lReadFileToString( const Filenam : string) : string
13864:   Function lGetTempFilename( const Directory, Prefix : string) : string
13865:   {Function NeedRTLAnsi : boolean
13866:   Procedure SetNeedRTLAnsi( NewValue : boolean)
13867:   Function UTF8ToSys( const s : string) : string

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13868: Function SysToUTF8( const s : string ) : string
13869: Function ConsoleToUTF8( const s : string ) : string
13870: Function UTF8ToConsole( const s : string ) : string
13871: Function FileExistsUTF8( const FileName : string ) : boolean
13872: Function FileAgeUTF8( const FileName : string ) : Longint
13873: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
13874: Function ExpandFileNameUTF8( const FileName : string ) : string
13875: Function ExpandUNCfileNameUTF8( const FileName : string ) : string
13876: Function ExtractShortPathNameUTF8( const FileName : String ) : String
13877: Function FindFirstUTF8( const Path: string; Attr : Longint; out Rslt : TSearchRec ) : Longint
13878: Function FindNextUTF8( var Rslt : TSearchRec ) : Longint
13879: Procedure FindCloseUTF8( var F : TSearchrec )
13880: Function FileSetDateUTF8( const FileName : String; Age : Longint ) : Longint
13881: Function FileGetAttrUTF8( const FileName : String ) : Longint
13882: Function FileSetAttrUTF8( const FileName : String; Attr : longint ) : Longint
13883: Function DeleteFileUTF8( const FileName : String ) : Boolean
13884: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
13885: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
13886: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
13887: Function GetCurrentDirUTF8 : String
13888: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean
13889: Function CreateDirUTF8( const NewDir : String ) : Boolean
13890: Function RemoveDirUTF8( const Dir : String ) : Boolean
13891: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean
13892: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
13893: Function FileCreateUTF8( const FileName : string ) : THandle;
13894: Function FileCreateUTF8l( const FileName : string; Rights : Cardinal ) : THandle;
13895: Function ParamStrUTF8( Param : Integer ) : string
13896: Function GetEnvironmentStringUTF8( Index : Integer ) : string
13897: Function GetEnvironmentVariableUTF8( const EnvVar : string ) : String
13898: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
13899: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean ) : string
13900: Function SysErrorMessageUTF8( ErrorCode : Integer ) : String
13901: end;
13902:
13903: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13904: begin
13905:   //VK_F23 = 134;
13906:   //{$EXTERNALSYM VK_F24}
13907:   //VK_F24 = 135;
13908:   TVirtualKeyCode', 'Integer
13909:   'VK_MOUSEWHEELUP', 'integer'(134);
13910:   'VK_MOUSEWHEELDOWN', 'integer'(135);
13911:   Function glIsKeyDown( c : Char ) : Boolean;
13912:   Function glIsKeyDown1( vk : TVirtualKeyCode ) : Boolean;
13913:   Function glKeyPressed( minVkeyCode : TVirtualKeyCode ) : TVirtualKeyCode
13914:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode ) : String
13915:   Function glKeyNameToVirtualKeyCode( const keyName : String ) : TVirtualKeyCode
13916:   Function glCharToVirtualKeyCode( c : Char ) : TVirtualKeyCode
13917:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer )
13918: end;
13919:
13920: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13921: begin
13922:   TGLPoint', 'TPoint
13923:   //PGLPoint', '^TGLPoint // will not work
13924:   TGLRect', 'TRect
13925:   //PGLRect', '^TGLRect // will not work
13926:   TDelphiColor', 'TColor
13927:   TGLPicture', 'TPicture
13928:   TGLGraphic', 'TGraphic
13929:   TGLBitmap', 'TBitmap
13930:   //TGraphicClass', 'class of TGraphic
13931:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13932:   TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13933:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13934:     + 'Button; Shift : TShiftState; X, Y : Integer )
13935:   TGLMouseMoveEvent', 'TMouseEvent
13936:   TGLKeyEvent', 'TKeyEvent
13937:   TGLKeyPressEvent', 'TKeyPressEvent
13938:   EGLOSError', 'EWin32Error
13939:   EGLOSError', 'EWin32Error
13940:   EGLOSError', 'EOSError
13941:   'gl$AllFilter', 'string'All // $AllFilter
13942:   Function GLPoint( const x, y : Integer ) : TGLPoint
13943:   Function GLRGB( const r, g, b : Byte ) : TColor
13944:   Function GLColorToRGB( color : TColor ) : TColor
13945:   Function GLGetRValue( rgb : DWORD ) : Byte
13946:   Function GLGetGValue( rgb : DWORD ) : Byte
13947:   Function GLGetBValue( rgb : DWORD ) : Byte
13948:   Procedure GLInitWinColors
13949:   Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
13950:   Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer )
13951:   Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
13952:   Procedure GLInformationDlg( const msg : String )
13953:   Function GLQuestionDlg( const msg : String ) : Boolean
13954:   Function GLInputDlg( const msg : String ) : String
13955:   Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13956:   Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean

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13957: Function GLApplicationTerminated : Boolean
13958: Procedure GLRaiseLastOSError
13959: Procedure GLFreeAndNil( var anObject: TObject)
13960: Function GLGetDeviceLogicalPixelsX( device : Cardinal) : Integer
13961: Function GLGetCurrentColorDepth : Integer
13962: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat) : Integer
13963: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer) : Pointer
13964: Procedure GLSleep( length : Cardinal)
13965: Procedure GLQueryPerformanceCounter( var val : Int64)
13966: Function GLQueryPerformanceFrequency( var val : Int64) : Boolean
13967: Function GLStartPrecisionTimer : Int64
13968: Function GLPrecisionTimerLap( const precisionTimer : Int64) : Double
13969: Function GLStopPrecisionTimer( const precisionTimer : Int64) : Double
13970: Function GLRTSC : Int64
13971: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string)
13972: Function GLOKMessageBox( const Text, Caption : string) : Integer
13973: Procedure GLShowHTMLUrl( Url : String)
13974: Procedure GLShowCursor( AShow : boolean)
13975: Procedure GLSetCursorPos( AScreenX, AScreenY : integer)
13976: Procedure GLGetCursorPos( var point : TGLPoint)
13977: Function GLGetScreenWidth : integer
13978: Function GLGetScreenHeight : integer
13979: Function GLGetTickCount : int64
13980: function RemoveSpaces(const str : String) : String;
13981: TNoramlMapSpace', ' nmsObject, nmsTangent )
13982: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
13983: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList)
13984: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectorList)
13985: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
HiTexCoords:TAffineVectorList):TGLBitmap
13986: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
LoTexCoords, Tangents, BiNormals : TAffineVectorList) : TGLBitmap
13987: end;
13988:
13989: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
13990: begin
13991:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
13992:   // PGLStarRecord', '^TGLStarRecord // will not work
13993:   Function StarRecordPositionZUp( const starRecord : TGLStarRecord) : TAffineVector
13994:   Function StarRecordPositionYUp( const starRecord : TGLStarRecord) : TAffineVector
13995:   Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single) : TVector
13996: end;
13997:
13998:
13999: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14000: begin
14001:   'AABB', 'record min : TAffineVector; max : TAffineVector; end
14002:   //PAABB', '^TAABB // will not work
14003:   'BSphere', 'record Center : TAffineVector; Radius : single; end
14004:   'TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
14005:   TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14006:   Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14007:   Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB)
14008:   Procedure SetBB( var c : THmgBoundingBox; const v : TVector)
14009:   Procedure SetAABB( var bb : TAABB; const v : TVector)
14010:  Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix)
14011:  Procedure AABBTransform( var bb : TAABB; const m : TMatrix)
14012:  Procedure AABBScale( var bb : TAABB; const v : TAffineVector)
14013:  Function BBMinX( const c : THmgBoundingBox ) : Single
14014:  Function BBMaxX( const c : THmgBoundingBox ) : Single
14015:  Function BBMinY( const c : THmgBoundingBox ) : Single
14016:  Function BBMaxY( const c : THmgBoundingBox ) : Single
14017:  Function BBMinZ( const c : THmgBoundingBox ) : Single
14018:  Function BBMaxZ( const c : THmgBoundingBox ) : Single
14019:  Procedure AABBInclude( var bb : TAABB; const p : TAffineVector)
14020:  Procedure AABBFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single)
14021:  Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14022:  Function BBTAAABB( const aBB : THmgBoundingBox ) : TAABB
14023:  Function AABBTaBB( const anAABB : TAABB ) : THmgBoundingBox;
14024:  Function AABBTaBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox;
14025:  Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector);
14026:  Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector);
14027:  Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14028:  Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14029:  Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14030:  Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14031:  Function AABBFitInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14032:  Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14033:  Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14034:  Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14035:  Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14036:  Procedure ExtractAABBCorners( const AABB : TAABB; var AABBCorners : AABBCorners)
14037:  Procedure AABBTaBSphere( const AABB : TAABB; var BSphere : TBSphere)
14038:  Procedure BSphereToAABB( const BSphere : TBSphere; var AABB : TAABB);
14039:  Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14040:  Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14041:  Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14042:  Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains

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14043: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14044: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14045: Function PlaneContainsBSphere(const Location,Normal:TAffineVector;const
testBSphere:TBSphere):TSpaceContains
14046: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14047: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14048: Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector
14049: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14050: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single )
14051: Function AABBToClipRect(const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
viewportSizeY:Int):TClipRect
14052: end;
14053:
14054: procedure SIRegister_GeometryCoordinates(CL: TPSPPascalCompiler);
14055: begin
14056: Procedure Cylindrical_Cartesian( const r, theta, zl : single; var x, y, z : single );
14057: Procedure Cylindrical_Cartesian1( const r, theta, zl : double; var x, y, z : double );
14058: Procedure Cylindrical_Cartesian2( const r,theta,zl : single; var x, y, z : single; var ierr : integer );
14059: Procedure Cylindrical_Cartesian3( const r,theta,zl : double; var x, y, z : double; var ierr : integer );
14060: Procedure Cartesian_Cylindrical( const x, y, zl : single; var r, theta, z : single );
14061: Procedure Cartesian_Cylindrical1( const x, y, zl : double; var r, theta, z : double );
14062: Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single );
14063: Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double );
14064: Procedure Spherical_Cartesian2( const r,theta,phi : single; var x, y, z : single; var ierr : integer );
14065: Procedure Spherical_Cartesian3( const r,theta,phi : double; var x, y, z : double; var ierr : integer );
14066: Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single );
14067: Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single );
14068: Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double );
14069: Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14070: Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14071: Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr: integer );
14072: Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer );
14073: Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14074: Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14075: Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer );
14076: Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer );
14077: Procedure BipolarCylindrical_Cartesian( const u, v, zl, a : single; var x, y, z : single );
14078: Procedure BipolarCylindrical_Cartesian1( const u, v, zl, a : double; var x, y, z : double );
14079: Procedure BipolarCylindrical_Cartesian2( const u,v,zl,a : single;var x,y,z:single; var ierr : integer );
14080: Procedure BipolarCylindrical_Cartesian3( const u,v,zl,a : double;var x,y,z:double; var ierr : integer );
14081: end;
14082:
14083: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14084: begin
14085: 'EPSILON','Single').setExtended( 1e-40 );
14086: 'EPSILON2','Single').setExtended( 1e-30 ); }
14087: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14088: + 'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14089: THmgPlane', 'TVector
14090: TDoubleHmgPlane', 'THomogeneousDblVector
14091: {TTtransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14092: +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14093: +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14094: TSingleArray', 'array of Single
14095: TTtransformations', 'array [0..15] of Single)
14096: TPackedRotationMatrix', 'array [0..2] of Smallint)
14097: TVertex', 'TAffineVector
14098: //TVectorGL', 'THomogeneousFltVector
14099: //TMatrixGL', 'THomogeneousFltMatrix
14100: // TPackedRotationMatrix = array [0..2] of SmallInt;
14101: Function glTexPointMake( const s, t : Single ) : TTexPoint
14102: Function glAffineVectorMake( const x, y, z : Single ) : TAffineVector;
14103: Function glAffineVectorMake1( const v : TVectorGL ) : TAffineVector;
14104: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single );
14105: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single );
14106: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL );
14107: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector );
14108: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector );
14109: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL );
14110: Function glVectorMake( const v : TAffineVector; w : Single ) : TVectorGL;
14111: Function glVectorMake1( const x, y, z : Single; w : Single ) : TVectorGL;
14112: Function glPointMake( const x, y, z : Single ) : TVectorGL;
14113: Function glPointMake1( const v : TAffineVector ) : TVectorGL;
14114: Function glPointMake2( const v : TVectorGL ) : TVectorGL;
14115: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single );
14116: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single );
14117: Procedure glg1SetVector7( var v : TVectorGL; const vSrc : TVectorGL );
14118: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single );
14119: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector );
14120: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL );
14121: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single );
14122: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single );
14123: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector );
14124: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL );
14125: Procedure glRstVector( var v : TAffineVector );
14126: Procedure glRstVector1( var v : TVectorGL );
14127: Function glVectorAdd( const v1, v2 : TAffineVector ) : TAffineVector;
14128: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector );
14129: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector );

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14130: Function glVectorAdd3( const v1, v2 : TVectorGL ) : TVectorGL;
14131: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL );
14132: Function glVectorAdd5( const v : TAffineVector; const f : Single ) : TAffineVector;
14133: Function glVectorAdd6( const v : TVectorGL; const f : Single ) : TVectorGL;
14134: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector );
14135: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL );
14136: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL );
14137: Procedure glAddVector10( var v : TAffineVector; const f : Single );
14138: Procedure glAddVector11( var v : TVectorGL; const f : Single );
14139: //Procedure TexPointArrayAdd(const src:PTexPointArray;const delta:TTexPoint;const
nb:Int;dest:PTexPointArray);
14140: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray;const delta:TTexPoint;const
nb:Integer;const scale:TTexPoint; dest : PTExPointArray);
14141: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector;const nb:Integer;dest:
PAffineVectorArray);
14142: Function glVectorSubtract( const V1, V2 : TAffineVector ) : TAffineVector;
14143: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector );
14144: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL );
14145: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL );
14146: Function glVectorSubtract4( const V1, V2 : TVectorGL ) : TVectorGL;
14147: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL );
14148: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector );
14149: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single ) : TAffineVector;
14150: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single ) : TVectorGL;
14151: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector );
14152: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL );
14153: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single );
14154: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat );
14155: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single ) : TTexPoint;
14156: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single ) : TAffineVector;
14157: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single ) : TAffineVector;
14158: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector );
14159: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single );
14160: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single );
14161: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single ) : TVectorGL;
14162: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1,F2:Single ) : TVectorGL;
14163: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL );
14164: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL );
14165: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL );
14166: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single ) : TVectorGL;
14167: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL );
14168: Function glVectorDotProduct( const V1, V2 : TAffineVector ) : Single;
14169: Function glVectorDotProduct1( const V1, V2 : TVectorGL ) : Single;
14170: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector ) : Single;
14171: Function glPointProject( const p, origin, direction : TAffineVector ) : Single;
14172: Function glPointProject1( const p, origin, direction : TVectorGL ) : Single;
14173: Function glVectorCrossProduct( const V1, V2 : TAffineVector ) : TAffineVector;
14174: Function glVectorCrossProduct1( const V1, V2 : TVectorGL ) : TVectorGL;
14175: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL );
14176: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL );
14177: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector );
14178: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector );
14179: Function glLerp( const start, stop, t : Single ) : Single;
14180: Function glAngleLerp( start, stop, t : Single ) : Single;
14181: Function glDistanceBetweenAngles( angle1, angle2 : Single ) : Single;
14182: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single ) : TTexPoint;
14183: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14184: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector );
14185: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single ) : TVectorGL;
14186: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL );
14187: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14188: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single ) : TAffineVector;
14189: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray );
14190: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
PAffineVectorArray );
14191: Function glVectorLength( const x, y : Single ) : Single;
14192: Function glVectorLength1( const x, y, z : Single ) : Single;
14193: Function glVectorLength2( const v : TAffineVector ) : Single;
14194: Function glVectorLength3( const v : TVectorGL ) : Single;
14195: Function glVectorLength4( const v : array of Single ) : Single;
14196: Function glVectorNorm( const x, y : Single ) : Single;
14197: Function glVectorNorm1( const v : TAffineVector ) : Single;
14198: Function glVectorNorm2( const v : TVectorGL ) : Single;
14199: Function glVectorNorm3( var V : array of Single ) : Single;
14200: Procedure glNormalizeVector( var v : TAffineVector );
14201: Procedure glNormalizeVector1( var v : TVectorGL );
14202: Function glVectorNormalize( const v : TAffineVector ) : TAffineVector;
14203: Function glVectorNormalize1( const v : TVectorGL ) : TVectorGL;
14204: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer );
14205: Function glVectorAngleCosine( const V1, V2 : TAffineVector ) : Single;
14206: Function glVectorNegate( const v : TAffineVector ) : TAffineVector;
14207: Function glVectorNegate1( const v : TVectorGL ) : TVectorGL;
14208: Procedure glNegateVector( var V : TAffineVector );
14209: Procedure glNegateVector2( var V : TVectorGL );
14210: Procedure glNegateVector3( var V : array of Single );
14211: Procedure glScaleVector( var v : TAffineVector; factor : Single );
14212: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector );
14213: Procedure glScaleVector2( var v : TVectorGL; factor : Single );
14214: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL );

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14215: Function glVectorScale( const v : TAffineVector; factor : Single ) : TAffineVector;
14216: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector );
14217: Function glVectorScale2( const v : TVectorGL; factor : Single ) : TVectorGL;
14218: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL );
14219: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector );
14220: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL );
14221: Function glVectorEquals( const V1, V2 : TVectorGL ) : Boolean;
14222: Function glVectorEquals1( const V1, V2 : TAffineVector ) : Boolean;
14223: Function glAffineVectorEquals( const V1, V2 : TVectorGL ) : Boolean;
14224: Function glVectorIsNull( const v : TVectorGL ) : Boolean;
14225: Function glVectorIsNull1( const v : TAffineVector ) : Boolean;
14226: Function glVectorSpacing( const v1, v2 : TTExPoint ) : Single;
14227: Function glVectorSpacing1( const v1, v2 : TAffineVector ) : Single;
14228: Function glVectorSpacing2( const v1, v2 : TVectorGL ) : Single;
14229: Function glVectorDistance( const v1, v2 : TAffineVector ) : Single;
14230: Function glVectorDistance1( const v1, v2 : TVectorGL ) : Single;
14231: Function glVectorDistance2( const v1, v2 : TAffineVector ) : Single;
14232: Function glVectorDistance21( const v1, v2 : TVectorGL ) : Single;
14233: Function glVectorPerpendicular( const V, N : TAffineVector ) : TAffineVector;
14234: Function glVectorReflect( const V, N : TAffineVector ) : TAffineVector;
14235: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single );
14236: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single );
14237: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single );
14238: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single ) : TAffineVector;
14239: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single ) : TAffineVector;
14240: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector );
14241: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single ) : TAffineVector;
14242: Procedure glAbsVector( var v : TVectorGL );
14243: Procedure glAbsVector1( var v : TAffineVector );
14244: Function glVectorAbs( const v : TVectorGL ) : TVectorGL;
14245: Function glVectorAbs1( const v : TAffineVector ) : TAffineVector;
14246: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL );
14247: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL );
14248: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix );
14249: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL );
14250: Function glCreateScaleMatrix( const v : TAffineVector ) : TMatrixGL;
14251: Function glCreateScaleMatrix1( const v : TVectorGL ) : TMatrixGL;
14252: Function glCreateTranslationMatrix( const V : TAffineVector ) : TMatrixGL;
14253: Function glCreateTranslationMatrix1( const V : TVectorGL ) : TMatrixGL;
14254: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL ) : TMatrixGL;
14255: Function glCreateRotationMatrixX( const sine, cosine : Single ) : TMatrixGL;
14256: Function glCreateRotationMatrixX1( const angle : Single ) : TMatrixGL;
14257: Function glCreateRotationMatrixY( const sine, cosine : Single ) : TMatrixGL;
14258: Function glCreateRotationMatrixY1( const angle : Single ) : TMatrixGL;
14259: Function glCreateRotationMatrixZ( const sine, cosine : Single ) : TMatrixGL;
14260: Function glCreateRotationMatrixZ1( const angle : Single ) : TMatrixGL;
14261: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single ) : TMatrixGL;
14262: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single ) : TMatrixGL;
14263: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix;
14264: Function glMatrixMultiply( const M1, M2 : TAffineMatrix ) : TAffineMatrix;
14265: Function glMatrixMultiply1( const M1, M2 : TMatrixGL ) : TMatrixGL;
14266: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL );
14267: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL ) : TVectorGL;
14268: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix ) : TVectorGL;
14269: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL ) : TAffineVector;
14270: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix ) : TAffineVector;
14271: Function glMatrixDeterminant( const M : TAffineMatrix ) : Single;
14272: Function glMatrixDeterminant1( const M : TMatrixGL ) : Single;
14273: Procedure glAdjointMatrix( var M : TMatrixGL );
14274: Procedure glAdjointMatrix1( var M : TAffineMatrix );
14275: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single );
14276: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single );
14277: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector );
14278: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL );
14279: Procedure glNormalizeMatrix( var M : TMatrixGL );
14280: Procedure glTransposeMatrix( var M : TAffineMatrix );
14281: Procedure glTransposeMatrix1( var M : TMatrixGL );
14282: Procedure glInvertMatrix( var M : TMatrixGL );
14283: Procedure glInvertMatrix1( var M : TAffineMatrix );
14284: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL ) : TMatrixGL;
14285: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations ) : Boolean;
14286: Function glPlaneMake( const p1, p2, p3 : TAffineVector ) : THmgPlane;
14287: Function glPlaneMake1( const p1, p2, p3 : TVectorGL ) : THmgPlane;
14288: Function glPlaneMake2( const point, normal : TAffineVector ) : THmgPlane;
14289: Function glPlaneMake3( const point, normal : TVectorGL ) : THmgPlane;
14290: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane );
14291: Procedure glNormalizePlane( var plane : THmgPlane );
14292: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector ) : Single;
14293: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL ) : Single;
14294: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector ) : TAffineVector;
14295: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector );
14296: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector );
14297: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL ) : Boolean;
14298: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector ) : Boolean;
14299: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL ) : Single;
14300: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector ) : Single;
14301: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector;
14302: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector ) : single;
14303: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector ) : TAffineVector;

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14304: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector ) : Single
14305: Procedure SgsegmentSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector)
14306: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single
14307: TEulerOrder', (' eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX)
14308: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion
14309: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion
14310: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single
14311: Procedure glNormalizeQuaternion( var Q : TQuaternion )
14312: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion
14313: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
14314: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion
14315: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL
14316: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix
14317: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion
14318: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion
14319: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion
14320: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion
14321: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14322: Function glQuaternionSlerpl( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14323: Function glLnXp1( X : Extended ) : Extended
14324: Function glLog10( X : Extended ) : Extended
14325: Function glLog2( X : Extended ) : Extended;
14326: Function glLog2l( X : Single ) : Single;
14327: Function glLogN( Base, X : Extended ) : Extended
14328: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14329: Function glPower( const Base, Exponent : Single ) : Single;
14330: Function glPowerl( Base : Single; Exponent : Integer ) : Single;
14331: Function glDegToRad( const Degrees : Extended ) : Extended;
14332: Function glDegToRadl( const Degrees : Single ) : Single;
14333: Function glRadToDeg( const Radians : Extended ) : Extended;
14334: Function glRadToDegl( const Radians : Single ) : Single;
14335: Function glNormalizeAngle( angle : Single ) : Single
14336: Function glNormalizeDegAngle( angle : Single ) : Single
14337: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14338: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14339: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14340: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14341: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14342: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14343: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14344: Function glArcCos( const X : Extended ) : Extended;
14345: Function glArcCos1( const x : Single ) : Single;
14346: Function glArcSin( const X : Extended ) : Extended;
14347: Function glArcSin1( const X : Single ) : Single;
14348: Function glArcTan2l( const Y, X : Extended ) : Extended;
14349: Function glArcTan2l( const Y, X : Single ) : Single;
14350: Function glFastArcTan2( y, x : Single ) : Single
14351: Function glTan( const X : Extended ) : Extended;
14352: Function glTanl( const X : Single ) : Single;
14353: Function glCoTan( const X : Extended ) : Extended;
14354: Function glCoTanl( const X : Single ) : Single;
14355: Function glSinh( const x : Single ) : Single;
14356: Function glSinhl( const x : Double ) : Double;
14357: Function glCosh( const x : Single ) : Single;
14358: Function glCoshl( const x : Double ) : Double;
14359: Function glRSqrt( v : Single ) : Single
14360: Function glRLength( x, y : Single ) : Single
14361: Function glISqrt( i : Integer ) : Integer
14362: Function glILength( x, y : Integer ) : Integer;
14363: Function glILengthl( x, y, z : Integer ) : Integer;
14364: Procedure glRegisterBasedExp
14365: Procedure glRandomPointOnSphere( var p : TAffineVector )
14366: Function glRoundInt( v : Single ) : Single;
14367: Function glRoundIntl( v : Extended ) : Extended;
14368: Function glTrunc( v : Single ) : Integer;
14369: Function glTrunc64( v : Extended ) : Int64;
14370: Function glInt( v : Single ) : Single;
14371: Function glIntl( v : Extended ) : Extended;
14372: Function glFrac( v : Single ) : Single;
14373: Function glFracl( v : Extended ) : Extended;
14374: Function glRound( v : Single ) : Integer;
14375: Function glRound64( v : Single ) : Int64;
14376: Function glRound64l( v : Extended ) : Int64;
14377: Function glTrunc( X : Extended ) : Int64
14378: Function glRound( X : Extended ) : Int64
14379: Function glFrac( X : Extended ) : Extended
14380: Function glCeil( v : Single ) : Integer;
14381: Function glCeil64( v : Extended ) : Int64;
14382: Function glFloor( v : Single ) : Integer;
14383: Function glFloor64( v : Extended ) : Int64;
14384: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14385: Function glSign( x : Single ) : Integer
14386: Function glIsInRange( const x, a, b : Single ) : Boolean;
14387: Function glIsInRangel( const x, a, b : Double ) : Boolean;
14388: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14389: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14390: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14391: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;

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14392: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14393: Function glMinFloat3( const v1, v2 : Single ) : Single;
14394: Function glMinFloat4( const v : array of Single ) : Single;
14395: Function glMinFloat5( const v1, v2 : Double ) : Double;
14396: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14397: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14398: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14399: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14400: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14401: //Function MaxFloat( values : PDoubleArray; nbItems : Integer ) : Double;
14402: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14403: Function glMaxFloat2( const v : array of Single ) : Single;
14404: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14405: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14406: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14407: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14408: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14409: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14410: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14411: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14412: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14413: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14414: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14415: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14416: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14417: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14418: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14419: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14420: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14421: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single );
14422: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14423: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14424: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14425: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14426: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14427: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14428: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14429: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14430: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14431: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14432: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14433: Procedure glSortArrayAscending( var a : array of Extended );
14434: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14435: Function glClampValue1( const aValue, aMin : Single ) : Single;
14436: Function glGeometryOptimizationMode : String;
14437: Procedure glBeginFPUOnlySection;
14438: Procedure glEndFPUOnlySection;
14439: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14440: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14441: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14442: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14443: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14444: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14445: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14446: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14447: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14448: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14449: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14450: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14451: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14452: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14453: Function glRoll1(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14454: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single;
14455: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14456: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14457: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14458: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14459: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14460: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14461: Function glIsVolumeClipped2(const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14462: Function glIsVolumeClipped3(const objPos:TAffineVector;const objRadius:Single;const
Frustum:TFrustum):Bool;
14463: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;
14464: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL;
14465: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL;
14466: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix;
14467: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL;
14468: 'cPI','Single').setExtended( 3.141592654 );
14469: 'cPIdiv180','Single').setExtended( 0.017453292 );
14470: 'c180divPI','Single').setExtended( 57.29577951 );
14471: 'c2PI','Single').setExtended( 6.283185307 );
14472: 'cPIdiv2','Single').setExtended( 1.570796326 );
14473: 'cPIdiv4','Single').setExtended( 0.785398163 );
14474: 'c3PIdiv4','Single').setExtended( 2.35619449 );
14475: 'cInv2PI','Single').setExtended( 1 / 6.283185307 );

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14476: 'cInv360','Single').setExtended( 1 / 360);
14477: 'c180','Single').setExtended( 180);
14478: 'c360','Single').setExtended( 360);
14479: 'cOneHalf','Single').setExtended( 0.5);
14480: 'cLn10','Single').setExtended( 2.302585093);
14481: {'MinSingle','Extended').setExtended( 1.5e-45);
14482: 'MaxSingle','Extended').setExtended( 3.4e+38);
14483: 'MinDouble','Extended').setExtended( 5.0e-324);
14484: 'MaxDouble','Extended').setExtended( 1.7e+308);
14485: 'MinExtended','Extended').setExtended( 3.4e-4932);
14486: 'MaxExtended','Extended').setExtended( 1.1e+4932);
14487: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18);
14488: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18);}
14489: end;
14490:
14491: procedure SIRegister_GLVectorFileObjects(CL: TPSPPascalCompiler);
14492: begin
14493:   AddClassN(FindClass('TOBJECT'), 'TMeshObjectList'
14494:     (FindClass('TOBJECT'), 'TFaceGroups
14495:      TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14496:      TMeshAutoCenterings', 'set of TMeshAutoCentering
14497:      TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14498:      SIRegister_TBaseMeshObject(CL);
14499:      (FindClass('TOBJECT'), 'TSkeletonFrameList
14500:        TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14501:        SIRegister_TSkeletonFrame(CL);
14502:        SIRegister_TSkeletonFrameList(CL);
14503:        (FindClass('TOBJECT'), 'TSkeleton
14504:          (FindClass('TOBJECT'), 'TSkeletonBone
14505:          SIRegister_TSkeletonBoneList(CL);
14506:          SIRegister_TSkeletonRootBoneList(CL);
14507:          SIRegister_TSkeletonBone(CL);
14508:          (FindClass('TOBJECT'), 'TSkeletonColliderList
14509:          SIRegister_TSkeletonCollider(CL);
14510:          SIRegister_TSkeletonColliderList(CL);
14511:          (FindClass('TOBJECT'), 'TGLBaseMesh
14512:            TBlendedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14513:              +'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14514:              +'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14515:              +'QuaternionList; end
14516:            SIRegister_TSkeleton(CL);
14517:            TMeshObjectRenderingOption', '( moroGroupByMaterial )
14518:            TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14519:            SIRegister_TMeshObject(CL);
14520:            SIRegister_TMeshObjectList(CL);
14521: //TMeshObjectListClass', 'class of TMeshObjectList
14522: (FindClass('TOBJECT'), 'TMeshMorphTargetList
14523: SIRegister_TMeshMorphTarget(CL);
14524: SIRegister_TMorphTargetList(CL);
14525: SIRegister_TMorphableMeshObject(CL);
14526: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14527: //PVerticesBoneWeightArray', '^TVertexBoneWeightArray // will not wo'rk
14528: //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14529: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14530: SIRegister_TSkeletonMeshObject(CL);
14531: SIRegister_TFaceGroup(CL);
14532: TFaceGroupMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14533:   +'atTriangles, fgmmTriangleFan, fgmmQuads )
14534: SIRegister_TFGVertexIndexList(CL);
14535: SIRegister_TFGVertexNormalTexIndexList(CL);
14536: SIRegister_TFGIndexTexCoordList(CL);
14537: SIRegister_TFaceGroups(CL);
14538: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14539: SIRegister_TVectorFile(CL);
14540: //TVectorFileClass', 'class of TVectorFile
14541: SIRegister_TGLGLSMVectorFile(CL);
14542: SIRegister_TGLBaseMesh(CL);
14543: SIRegister_TGLFreeForm(CL);
14544: TGLActorOption', '( aoSkeletonNormalizeNormals )
14545: TGLActorOptions', 'set of TGLActorOption
14546: 'cDefaultGLActorOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14547: (FindClass('TOBJECT'), 'TGLActor
14548: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14549: SIRegister_TActorAnimation(CL);
14550: TActorAnimationName', 'String
14551: SIRegister_TActorAnimations(CL);
14552: SIRegister_TGLBaseAnimationController(CL);
14553: SIRegister_TGLAnimationController(CL);
14554: TActorFrameInterpolation', '( afpNone, afpLinear )
14555: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounc
14556:   +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14557: SIRegister_TGLActor(CL);
14558: SIRegister_TVectorFileFormat(CL);
14559: SIRegister_TVectorFileFormatsList(CL);
14560: (FindClass('TOBJECT'), 'EInvalidVectorFile
14561: Function GetVectorFileFormats : TVectorFileFormatsList
14562: Function VectorFileFormatsFilter : String
14563: Function VectorFileFormatsSaveFilter : String
14564: Function VectorFileFormatExtensionByIndex( index : Integer ) : String

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14565: Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass)
14566: Procedure UnregisterVectorFileClass( aClass : TVectorFileClass)
14567: end;
14568:
14569: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14570: begin
14571:   'Class_DColorPropPage', 'TGUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14572:   'Class_DFontPropPage', 'TGUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14573:   'Class_DPicturePropPage', 'TGUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14574:   'Class_DStringPropPage', 'TGUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14575:   SIRegister_TOLEStream(CL);
14576:   (FindClass('TOBJECT'), TConnectionPoints
14577:    'TConnectionKind', '( ckSingle, ckMulti )
14578:    SIRegister_TConnectionPoint(CL);
14579:    SIRegister_TConnectionPoints(CL);
14580:    TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14581:    (FindClass('TOBJECT'), TActiveXControlFactory
14582:    SIRegister_TActiveXControl(CL);
14583:    //TActiveXControlClass', 'class of TActiveXControl
14584:    SIRegister_TActiveXControlFactory(CL);
14585:    SIRegister_TActiveFormControl(CL);
14586:    SIRegister_TActiveForm(CL);
14587:    //TActiveFormClass', 'class of TActiveForm
14588:    SIRegister_TActiveFormFactory(CL);
14589:    (FindClass('TOBJECT'), TPropertyPageImpl
14590:    SIRegister_TPropertyPage(CL);
14591:    //TPropertyPageClass', 'class of TPropertyPage
14592:    SIRegister_TPropertyPageImpl(CL);
14593:    SIRegister_TActiveXPropertyPage(CL);
14594:    SIRegister_TActiveXPropertyPageFactory(CL);
14595:    SIRegister_TCustomAdapter(CL);
14596:    SIRegister_TAdapterNotifier(CL);
14597:    SIRegister_TFontAccess(CL);
14598:    SIRegister_TFontAdapter(CL);
14599:    SIRegister_TPictureAccess(CL);
14600:    SIRegister_TPictureAdapter(CL);
14601:    SIRegister_TOLEGraphic(CL);
14602:    SIRegister_TStringsAdapter(CL);
14603:    SIRegister_TReflectorWindow(CL);
14604:    Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14605:    Procedure GetOLEFont( Font : TFont; var OleFont : IFontDisp)
14606:    Procedure SetOLEFont( Font : TFont; OleFont : IFontDisp)
14607:    Procedure GetOLEPicture( Picture : TPicture; var OlePicture : IPictureDisp)
14608:    Procedure SetOLEPicture( Picture : TPicture; OlePicture : IPictureDisp)
14609:    Procedure GetOLEStrings( Strings : TStrings; var OleStrings : IStrings)
14610:    Procedure SetOLEStrings( Strings : TStrings; OleStrings : IStrings)
14611:    Function ParkingWindow : Hwnd
14612: end;
14613:
14614: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14615: begin
14616:   // TIP6Bytes = array [0..15] of Byte;
14617:   {binary form of IPv6 adress (for string conversion routines)}
14618:   // TIP6Words = array [0..7] of Word;
14619:   AddTypeS('TIP6Bytes', 'array [0..15] of Byte;');
14620:   AddTypeS('TIP6Words', 'array [0..7] of Word;');
14621:   AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4 : Byte; end');
14622:   Function synaIsIP( const Value : string) : Boolean';
14623:   Function synaIsIP6( const Value : string) : Boolean';
14624:   Function synaIPtoID( Host : string) : Ansistring';
14625:   Function synaStrToIp6( value : string) : TIP6Bytes';
14626:   Function synaIp6ToStr( value : TIP6Bytes) : string';
14627:   Function synaStrToIp( value : string) : integer';
14628:   Function synaIpToStr( value : integer) : string';
14629:   Function synaReverseIP( Value : AnsiString) : AnsiString';
14630:   Function synaReverseIP6( Value : AnsiString) : AnsiString';
14631:   Function synaExpandIP6( Value : AnsiString) : AnsiString';
14632:   Function xStrToIP( const Value : string) : TIPAdr';
14633:   Function xIPToStr( const Adresse : TIPAdr) : string';
14634:   Function IPToCardinal( const Adresse : TIPAdr) : Cardinal';
14635:   Function CardinalToIP( const Value : Cardinal) : TIPAdr';
14636: end;
14637:
14638: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14639: begin
14640:   AddTypeS('TSpecials', 'set of Char');
14641:   Const ('SpecialChar', 'TSpecials').SetSet( '='[]<>;@/?\'' );
14642:   Const ('URLFullSpecialChar', 'TSpecials').SetSet( '/?:@=&#+' );
14643:   Const ('TableBase64'ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdefg hijklmnopqrstuvwxyz0123456789+/=+');
14644:   Const ('TableBase64mod'ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdefg hijklmnopqrstuvwxyz0123456789+,=+');
14645:   Const ('TableUU'(`!#$%`)*+,-./0123456789:+<>?@ABCDEFIGHJKLMNOPQRSTUVWXYZ[\]^_');
14646:   Const ('TableXX'(+0123456789ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdefg hijklmnopqrstuvwxyz');
14647:   Function DecodeTriplet( const Value : AnsiString; Delimiter : Char) : AnsiString';
14648:   Function DecodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14649:   Function DecodeURL( const Value : AnsiString) : AnsiString';
14650:   Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials) : AnsiString';
14651:   Function EncodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14652:   Function EncodeSafeQuotedPrintable( const Value : AnsiString) : AnsiString';
14653:   Function EncodeURLElement( const Value : AnsiString) : AnsiString';

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14654: Function EncodeURL( const Value : AnsiString ) : AnsiString');
14655: Function Decode4to3( const Value, Table : AnsiString ) : AnsiString');
14656: Function Decode4to3Ex( const Value, Table : AnsiString ) : AnsiString');
14657: Function Encode3to4( const Value, Table : AnsiString ) : AnsiString');
14658: Function synDecodeBase64( const Value : AnsiString ) : AnsiString');
14659: Function synEncodeBase64( const Value : AnsiString ) : AnsiString');
14660: Function DecodeBase64mod( const Value : AnsiString ) : AnsiString');
14661: Function EncodeBase64mod( const Value : AnsiString ) : AnsiString');
14662: Function DecodeUU( const Value : AnsiString ) : AnsiString');
14663: Function EncodeUU( const Value : AnsiString ) : AnsiString');
14664: Function DecodeXX( const Value : AnsiString ) : AnsiString');
14665: Function DecodeYEnc( const Value : AnsiString ) : AnsiString');
14666: Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer');
14667: Function synCrc32( const Value : AnsiString ) : Integer');
14668: Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word');
14669: Function Crc16( const Value : AnsiString ) : Word');
14670: Function synMD5( const Value : AnsiString ) : AnsiString');
14671: Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString');
14672: Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14673: Function synSHA1( const Value : AnsiString ) : AnsiString');
14674: Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString');
14675: Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14676: Function synMD4( const Value : AnsiString ) : AnsiString');
14677: end;
14678:
14679: procedure SIRegister_synamchar(CL: TPSPPascalCompiler);
14680: begin
14681:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14682:             + 'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14683:             + 'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14684:             + '4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14685:             + '_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14686:             + 'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14687:             + ', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14688:             + ', NEXTSTEP, ARMSCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14689:             + 'IS620, CP874, VISCN, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14690:             + '1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14691:             + '2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14692:             + 'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14693:             + 'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14694:             + ', CP864, CP865, CP869, CP1125 )');
14695:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14696: Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14697: Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
      TransformTable : array of Word) : AnsiString';
14698: Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
      TransformTable : array of Word; Translit : Boolean) : AnsiString';
14699: Function GetCurCP : TMimeChar');
14700: Function GetCurOEMCP : TMimeChar');
14701: Function GetCFFromID( Value : AnsiString ) : TMimeChar');
14702: Function GetIDFromCP( Value : TMimeChar ) : AnsiString');
14703: Function NeedCharsetConversion( const Value : AnsiString ) : Boolean');
14704: Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14705: Function GetBOM( Value : TMimeChar ) : AnsiString');
14706: Function StringToWide( const Value : AnsiString ) : WideString');
14707: Function WideToString( const Value : WideString ) : AnsiString');
14708: end;
14709:
14710: procedure SIRegister_synamisc(CL: TPSPPascalCompiler);
14711: begin
14712:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14713:   Procedure WakeOnLan( MAC, IP : string );
14714:   Function GetDNS : string';
14715:   Function GetIEProxy( protocol : string ) : TProxySetting');
14716:   Function GetLocalIPs : string');
14717: end;
14718:
14719:
14720: procedure SIRegister_synaser(CL: TPSPPascalCompiler);
14721: begin
14722:   AddConstantN('synCR','Char #$0d');
14723:   Const('synLF','Char #$0a');
14724:   Const('cSerialChunk','LongInt'( 8192));
14725:   Const('LockfileDirectory','String '/var/lock');
14726:   Const('PortIsClosed','LongInt'( - 1);
14727:   Const('ErrAlreadyOwned','LongInt'( 9991);
14728:   Const('ErrAlreadyInUse','LongInt'( 9992);
14729:   Const('ErrWrongParameter','LongInt'( 9993);
14730:   Const('ErrPortNotOpen','LongInt'( 9994);
14731:   Const('ErrNoDeviceAnswer','LongInt'( 9995);
14732:   Const('ErrMaxBuffer','LongInt'( 9996);
14733:   Const('ErrTimeout','LongInt'( 9997);
14734:   Const('ErrNotRead','LongInt'( 9998);
14735:   Const('ErrFrame','LongInt'( 9999);
14736:   Const('ErrOverrun','LongInt'( 10000);
14737:   Const('ErrRxOver','LongInt'( 10001);
14738:   Const('ErrRxParity','LongInt'( 10002);
14739:   Const('ErrTxFull','LongInt'( 10003);
14740:   Const('dcb_Binary','LongWord')( $00000001);

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14741: Const('dcb_ParityCheck','LongWord')( $00000002);
14742: Const('dcb_OutxCtsFlow','LongWord')( $00000004);
14743: Const('dcb_OutxDsrFlow','LongWord')( $00000008);
14744: Const('dcb_DtrControlMask','LongWord')( $00000030);
14745: Const('dcb_DtrControlDisable','LongWord')( $00000000);
14746: Const('dcb_DtrControlEnable','LongWord')( $00000010);
14747: Const('dcb_DtrControlHandshake','LongWord')( $00000020);
14748: Const('dcb_DsrSensitivity','LongWord')( $00000040);
14749: Const('dcb_TXContinueOnXoff','LongWord')( $00000080);
14750: Const('dcb_OutX','LongWord')( $00000100);
14751: Const('dcb_InX','LongWord')( $00000200);
14752: Const('dcb_ErrorChar','LongWord')( $00000400);
14753: Const('dcb_NullStrip','LongWord')( $00000800);
14754: Const('dcb_RtsControlMask','LongWord')( $00003000);
14755: Const('dcb_RtsControlDisable','LongWord')( $00000000);
14756: Const('dcb_RtsControlEnable','LongWord')( $00001000);
14757: Const('dcb_RtsControlHandshake','LongWord')( $00002000);
14758: Const('dcb_RtsControlToggle','LongWord')( $00003000);
14759: Const('dcb_AbortOnError','LongWord')( $00004000);
14760: Const('dcb_Reservesd','LongWord')( $FFFF8000);
14761: Const('synSBL','LongInt'( 0));
14762: Const('SBlandHalf','LongInt'( 1));
14763: Const('synSB2','LongInt'( 2));
14764: Const('synINVALID_HANDLE_VALUE','LongInt'( THandle( - 1 )));
14765: Const('CS7fix','LongWord')( $0000020);
14766: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long' +
14767:   +'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par' +
14768:   +'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : ' +
14769:   +'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14770: //AddTypeS('PDCB', '^TDCB // will not work');
14771: //Const('MaxRates','LongInt'( 18));
14772: //Const('MaxRates','LongInt'( 30));
14773: //Const('MaxRates','LongInt'( 19));
14774: Const('O_SYNC','LongWord')( $0080);
14775: Const('synOK','LongInt'( 0));
14776: Const('synErr','LongInt'( integer( - 1 )));
14777: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,' +
14778:   HR_WriteCount, HR_Wait )');
14779: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string'));
14780: SIRegister_ESynaSerError(CL);
14781: SIRegister_TBlockSerial(CL);
14782: Function GetSerialPortNames : string);
14783: end;
14784: procedure SIRegister_synaicnv(CL: TPSPascalCompiler);
14785: begin
14786: Const('DLLIconvName','String 'libiconv.so');
14787: Const('DLLIconvName','String 'iconv.dll');
14788: AddTypeS('size_t','Cardinal');
14789: AddTypeS('iconv_t','Integer');
14790: //AddTypeS('iconv_t','Pointer');
14791: AddTypeS('argptr','iconv_t');
14792: Function SynalconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14793: Function SynalconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14794: Function SynalconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14795: Function Synalconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14796: Function SynalconvClose( var cd : iconv_t) : integer';
14797: Function SynalconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14798: Function IsIconvloaded : Boolean';
14799: Function InitIconvInterface : Boolean';
14800: Function DestroyIconvInterface : Boolean';
14801: Const('ICONV_TRIVIALP','LongInt'( 0));
14802: Const('ICONV_GET_TRANSLITERATE','LongInt'( 1));
14803: Const('ICONV_SET_TRANSLITERATE','LongInt'( 2));
14804: Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3));
14805: Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4));
14806: end;
14807:
14808: procedure SIRegister_pingsend(CL: TPSPascalCompiler);
14809: begin
14810: Const 'ICMP_ECHO','LongInt'( 8);
14811: Const 'ICMP_ECHOREPLY','LongInt'( 0);
14812: Const('ICMP_UNREACH','LongInt'( 3);
14813: Const('ICMP_TIME_EXCEEDED','LongInt'( 11);
14814: Const('ICMP6_ECHO','LongInt'( 128);
14815: Const('ICMP6_ECHOREPLY','LongInt'( 129);
14816: Const('ICMP6_UNREACH','LongInt'( 1);
14817: Const('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14818: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOr' +
14819:   +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14820: SIRegister_TPINGSend(CL);
14821: Function PingHost( const Host : string) : Integer';
14822: Function TraceRouteHost( const Host : string) : string';
14823: end;
14824:
14825: procedure SIRegister_asn1util(CL: TPSPascalCompiler);
14826: begin
14827: AddConstantN('synASN1_BOOL','LongWord')( $01);
14828: Const('synASN1_INT','LongWord')( $02);

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14829: Const('synASN1_OCTSTR','LongWord')( $04);
14830: Const('synASN1_NULL','LongWord')( $05);
14831: Const('synASN1_OBJID','LongWord')( $06);
14832: Const('synASN1_ENUM','LongWord')( $0a);
14833: Const('synASN1_SEQ','LongWord')( $30);
14834: Const('synASN1_SETOF','LongWord')( $31);
14835: Const('synASN1_IPADDR','LongWord')( $40);
14836: Const('synASN1_COUNTER','LongWord')( $41);
14837: Const('synASN1_GAUGE','LongWord')( $42);
14838: Const('synASN1_TIMETICKS','LongWord')( $43);
14839: Const('synASN1_OPAQUE','LongWord')( $44);
14840: Function synASNEncOIDItem( Value : Integer ) : AnsiString');
14841: Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString ) : Integer');
14842: Function synASNEncLen( Len : Integer ) : AnsiString');
14843: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString ) : Integer');
14844: Function synASNEncInt( Value : Integer ) : AnsiString');
14845: Function synASNEncUInt( Value : Integer ) : AnsiString');
14846: Function synASNObject( const Data : AnsiString; ASNType : Integer ) : AnsiString');
14847: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14848: Function synMibToId( Mib : String ) : AnsiString');
14849: Function synIdToMib( const Id : AnsiString ) : String');
14850: Function synIntMibToStr( const Value : AnsiString ) : AnsiString');
14851: Function ASNdump( const Value : AnsiString ) : AnsiString');
14852: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings) : Boolean');
14853: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString');
14854: end;
14855:
14856: procedure SIRegister_ldapsend(CL: TPSCompiler);
14857: begin
14858: Const('cLDAPProtocol','String '389');
14859: Const('LDAP ASN1 BIND REQUEST','LongWord')( $60);
14860: Const('LDAP ASN1 BIND RESPONSE','LongWord')( $61);
14861: Const('LDAP ASN1 UNBIND REQUEST','LongWord')( $42);
14862: Const('LDAP ASN1 SEARCH REQUEST','LongWord')( $63);
14863: Const('LDAP ASN1 SEARCH ENTRY','LongWord')( $64);
14864: Const('LDAP ASN1 SEARCH DONE','LongWord')( $65);
14865: Const('LDAP ASN1 SEARCH REFERENCE','LongWord')( $73);
14866: Const('LDAP ASN1 MODIFY REQUEST','LongWord')( $66);
14867: Const('LDAP ASN1 MODIFY RESPONSE','LongWord')( $67);
14868: Const('LDAP ASN1 ADD REQUEST','LongWord')( $68);
14869: Const('LDAP ASN1 ADD RESPONSE','LongWord')( $69);
14870: Const('LDAP ASN1 DEL REQUEST','LongWord')( $4A);
14871: Const('LDAP ASN1 DEL RESPONSE','LongWord')( $6B);
14872: Const('LDAP ASN1 MODIFYDN REQUEST','LongWord')( $6C);
14873: Const('LDAP ASN1 MODIFYDN RESPONSE','LongWord')( $6D);
14874: Const('LDAP ASN1 COMPARE REQUEST','LongWord')( $5E);
14875: Const('LDAP ASN1 COMPARE RESPONSE','LongWord')( $6F);
14876: Const('LDAP ASN1 ABANDON REQUEST','LongWord')( $70);
14877: Const('LDAP ASN1 EXT REQUEST','LongWord')( $77);
14878: Const('LDAP ASN1 EXT RESPONSE','LongWord')( $78);
14879: SIRegister_TLDAPAttribute(CL);
14880: SIRegister_TLDAPAttributeList(CL);
14881: SIRegister_TLDAPResult(CL);
14882: SIRegister_TLDAPResultList(CL);
14883: AddTypeS('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14884: AddTypeS('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14885: AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14886: SIRegister_TLDAPSnd(CL);
14887: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString');
14888: end;
14889:
14890:
14891: procedure SIRegister_slogsend(CL: TPSCompiler);
14892: begin
14893: Const('cSysLogProtocol','String '514');
14894: Const('FCL_Kernel','LongInt'( 0));
14895: Const('FCL_UserLevel','LongInt'( 1));
14896: Const('FCL_MailSystem','LongInt'( 2));
14897: Const('FCL_System','LongInt'( 3));
14898: Const('FCL_Security','LongInt'( 4));
14899: Const('FCL_Syslogd','LongInt'( 5));
14900: Const('FCL_Printer','LongInt'( 6));
14901: Const('FCL_News','LongInt'( 7));
14902: Const('FCL_UUCP','LongInt'( 8));
14903: Const('FCL_Clock','LongInt'( 9));
14904: Const('FCL_Authorization','LongInt'( 10));
14905: Const('FCL_FTP','LongInt'( 11));
14906: Const('FCL_NTP','LongInt'( 12));
14907: Const('FCL_LogAudit','LongInt'( 13));
14908: Const('FCL_LogAlert','LongInt'( 14));
14909: Const('FCL_Time','LongInt'( 15));
14910: Const('FCL_Local0','LongInt'( 16));
14911: Const('FCL_Local1','LongInt'( 17));
14912: Const('FCL_Local2','LongInt'( 18));
14913: Const('FCL_Local3','LongInt'( 19));
14914: Const('FCL_Local4','LongInt'( 20));
14915: Const('FCL_Local5','LongInt'( 21));
14916: Const('FCL_Local6','LongInt'( 22));
14917: Const('FCL_Local7','LongInt'( 23));

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14918: Type(TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning,Notice,Info,Debug);
14919: SIRegister_TSyslogMessage(CL);
14920: SIRegister_TSyslogSend(CL);
14921: Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const
Content:string):Boolean;
14922: end;
14923:
14924:
14925: procedure SIRegister_mimemess(CL: TPSCompiler);
14926: begin
14927:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
14928:   SIRegister_TMessHeader(CL);
14929: //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
14930:   SIRegister_TMimeMess(CL);
14931: end;
14932:
14933: procedure SIRegister_mimepart(CL: TPSCompiler);
14934: begin
14935:   (FindClass('TOBJECT'),'TMimePart');
14936:   AddTypes('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
14937:   AddTypes('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
14938:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
14939:   SIRegister_TMimePart(CL);
14940: Const('MaxMineType','LongInt'( 25));
14941: Function GenerateBoundary : string';
14942: end;
14943:
14944: procedure SIRegister_mimeinln(CL: TPSCompiler);
14945: begin
14946:   Function InlineDecode( const Value : string; CP : TMimeChar) : string';
14947:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string';
14948:   Function NeedInline( const Value : AnsiString) : boolean';
14949:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
14950:   Function InlineCode( const Value : string) : string');
14951:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
14952:   Function InlineEmail( const Value : string) : string');
14953: end;
14954:
14955: procedure SIRegister_ftpsend(CL: TPSCompiler);
14956: begin
14957:   Const('cFtpProtocol','String '21');
14958:   Const('cFtpDataProtocol','String '20');
14959:   Const('FTP_OK','LongInt'( 255);
14960:   Const('FTP_ERR','LongInt'( 254);
14961:   AddTypeS('TFTPStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
14962:   SIRegister_TFTPLListRec(CL);
14963:   SIRegister_TFTPLList(CL);
14964:   SIRegister_TFTPSend(CL);
14965:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14966:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14967:   Function FtpInterServerTransfer(const FromIP,FromPort, FromFile, FromUser, FromPass : string; const ToIP,
ToPort, ToFile, ToUser, ToPass : string) : Boolean';
14968: end;
14969:
14970: procedure SIRegister_httpsend(CL: TPSCompiler);
14971: begin
14972:   Const('cHttpProtocol','String '80');
14973:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
14974:   SIRegister_THTTFSend(CL);
14975:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
14976:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
14977:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
14978:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
14979:   Function HttpPostfile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
14980: end;
14981:
14982: procedure SIRegister_smtpsend(CL: TPSCompiler);
14983: begin
14984:   Const('cSmtpProtocol','String '25');
14985:   SIRegister_TSMTSPSend(CL);
14986:   Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
14987:   Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
14988:   Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Usrname, Password : string):Boolean';
14989: end;
14990:
14991: procedure SIRegister_snmpsend(CL: TPSCompiler);
14992: begin
14993:   Const('cSnmpProtocol','String '161');
14994:   Const('cSnmpTrapProtocol','String '162');
14995:   Const('SNMP_V1','LongInt'( 0);
14996:   Const('SNMP_V2C','LongInt'( 1);
14997:   Const('SNMP_V3','LongInt'( 3);
14998:   Const('PDUGetRequest','LongWord')($A0);
14999:   Const('PDUGetNextRequest','LongWord')($A1);
15000:   Const('PDUGetResponse','LongWord')($A2);
15001:   Const('PDUSetRequest','LongWord')($A3);

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15002: Const('PDUTrap','LongWord')($A4);
15003: Const('PDUGetBulkRequest','LongWord')($A5);
15004: Const('PDUInformRequest','LongWord')($A6);
15005: Const('PDUTrapV2','LongWord')($A7);
15006: Const('PDUReport','LongWord')($A8);
15007: Const('ENoError',LongInt 0;
15008: Const('ETooBig','LongInt')( 1);
15009: Const('ENoSuchName','LongInt')( 2);
15010: Const('EBadValue','LongInt')( 3);
15011: Const('EReadOnly','LongInt')( 4);
15012: Const('EGenErr','LongInt')( 5);
15013: Const('ENoAccess','LongInt')( 6);
15014: Const('EWrongType','LongInt')( 7);
15015: Const('EWrongLength','LongInt')( 8);
15016: Const('EWrongEncoding','LongInt')( 9);
15017: Const('EWrongValue','LongInt')( 10);
15018: Const('ENoCreation','LongInt')( 11);
15019: Const('EInconsistentValue','LongInt')( 12);
15020: Const('EResourceUnavailable','LongInt')( 13);
15021: Const('ECommitFailed','LongInt')( 14);
15022: Const('EUndoFailed','LongInt')( 15);
15023: Const('EAuthorizationError','LongInt')( 16);
15024: Const('ENotWritable','LongInt')( 17);
15025: Const('EInconsistentName','LongInt')( 18);
15026: AddTypes('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15027: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15028: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15029: SIRegister_TSNSMPMib(CL);
15030: AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
15031:   +EngineTime : integer; EngineStamp : Cardinal; end');
15032: SIRegister_TSNSMPRec(CL);
15033: SIRegister_TSNSMPSend(CL);
15034: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString ) : Boolean';
15035: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer ) : Boolean';
15036: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15037: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings) : Boolean;
15038: Function SNMPGetTableElement(const BaseOID,RowID,Colid,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15039: Function SendTrap(const Dest,Source, Enterprise, Community : AnsiString; Generic, Specific, Seconds : Integer; const MIBName, MIBValue : AnsiString; MIBtype : Integer ) : Integer';
15040: Function RecvTrap(var Dest,Source,Enterprise,Community : AnsiString; var Generic, Specific, Seconds : Integer; const MIBName, MIBValue : TStringList ) : Integer';
15041: end;
15042:
15043: procedure SIRegister_NetWork(CL: TPPascalCompiler);
15044: begin
15045:   Function GetDomainName2: AnsiString';
15046:   Function GetDomainController( Domain : AnsiString ) : AnsiString';
15047:   Function GetDomainUsers( Controller : AnsiString ) : AnsiString';
15048:   Function GetDomainGroups( Controller : AnsiString ) : AnsiString';
15049:   Function GetDateTime( Controller : AnsiString ) : TDateTime';
15050:   Function GetFullName2( Controller, UserID : AnsiString ) : AnsiString';
15051: end;
15052:
15053: procedure SIRegister_wwSystem(CL: TPPascalCompiler);
15054: begin
15055:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15056:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM)';
15057:   Function wwStrToDate( const S : string ) : boolean';
15058:   Function wwStrToTime( const S : string ) : boolean';
15059:   Function wwStrToDateTime( const S : string ) : boolean';
15060:   Function wwStrToTimeVal( const S : string ) : TDateTime';
15061:   Function wwStrToDateVal( const S : string ) : TDateTime';
15062:   Function wwStrToDateTimeVal( const S : string ) : TDateTime';
15063:   Function wwStrToInt( const S : string ) : boolean';
15064:   Function wwStrToFloat( const S : string ) : boolean';
15065:   Function wwGetDateOrder( const DateFormat : string ) : TwwDateOrder';
15066:   Function wwNextDay( Year, Month, Day : Word ) : integer';
15067:   Function wwPriorDay( Year, Month, Day : Word ) : integer';
15068:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime ) : Boolean';
15069:   Function wwDoDecodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime ) : Boolean';
15070:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool:TwwDateTimeSelection');
15071:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string ) : TwwDateTimeSelection';
15072:   Function wwScanDate( const S : string; var Date : TDateTime ) : Boolean';
15073:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer ) : Boolean';
15074:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool;
15075:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15076: end;
15077:
15078: unit uPSI_Themes;
15079: Function ThemeServices : TThemeServices';
15080: Function ThemeControl( AControl : TControl ) : Boolean';
15081: Function UnthemedDesigner( AControl : TControl ) : Boolean';
15082: procedure SIRegister_UDDIHelper(CL: TPPascalCompiler);
15083: begin
15084:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String';
15085: end;
15086: Unit upSC_menus;
15087:   Function StripHotkey( const Text : string ) : string';
15088:   Function GetHotkey( const Text : string ) : string';

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15089: Function AnsiSameCaption( const Text1, Text2 : string ) : Boolean';
15090: Function IsAltGRRPressed : boolean');
15091:
15092: procedure SIRegister_IdIMAP4Server(CL: TPSCompiler);
15093: begin
15094:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean)';
15095:   SIRegister_TIdIMAP4Server(CL);
15096: end;
15097:
15098: procedure SIRegister_VariantSymbolTable(CL: TPSCompiler);
15099: begin
15100:   'HASH_SIZE','LongInt'( 256 );
15101:   CL.FindClass('TOBJECT'), 'EVariantSymbolTable');
15102:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15103:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15104:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15105:     + ' : Integer; Value : Variant; end');
15106:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15107:   SIRegister_TVariantSymbolTable(CL);
15108: end;
15109:
15110: procedure SIRegister_udf_glob(CL: TPSCompiler);
15111: begin
15112:   SIRegister_ThreadLocalVariables(CL);
15113:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar';
15114:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15115:   Function ThreadLocals : TThreadLocalVariables';
15116:   Procedure WriteDebug( sz : String );
15117:   CL.AddConstantN('UDF_SUCCESS','LongInt'( 0 );
15118:   'UDF_FAILURE','LongInt'( 1 );
15119:   'cSignificantlyLarger','LongInt'( 1024 * 4 );
15120:   CL.AddTypeS('mTByteArray', 'array of byte;');
15121:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15122:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15123:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTTarget: string);
15124:   function IsNetworkConnected: Boolean;
15125:   function IsInternetConnected: Boolean;
15126:   function IsCOMConnected: Boolean;
15127:   function IsNetworkOn: Boolean;
15128:   function IsInternetOn: Boolean;
15129:   function IsCOMON: Boolean;
15130:   Function SetTimer(hWnd : HWND; nIDEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15131:   Function KillTimer( hWnd : HWND; uIDEvent : UINT ) : BOOL';
15132:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15133:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15134:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15135:   Function GetMenu( hWnd : HWND ) : HMENU';
15136:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15137: end;
15138:
15139: procedure SIRegister_SockTransport(CL: TPSCompiler);
15140: begin
15141:   SIRegister_IDataBlock(CL);
15142:   SIRegister_ISendDataBlock(CL);
15143:   SIRegister_ITransport(CL);
15144:   SIRegister_TDataBlock(CL);
15145:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15146:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15147:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15148:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15149:   SIRegister_TCustomDataBlockInterpreter(CL);
15150:   SIRegister_TSendDataBlock(CL);
15151:   'CallSig','LongWord')( $D800 );
15152:   'ResultSig','LongWord')( $D400 );
15153:   'asMask','LongWord')( $00FF );
15154:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15155:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15156:   Procedure CheckSignature( Sig : Integer );
15157: end;
15158:
15159: procedure SIRegister_WinInet(CL: TPSCompiler);
15160: begin
15161:   //CL.AddTypeS('HINTERNET', '__Pointer');
15162:   CL.AddTypeS('HINTERNETI', 'THANDLE');
15163:   CL.AddTypeS('HINTERNET', 'Integer');
15164:   CL.AddTypeS('HINTERNET2', '__Pointer');
15165:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15166:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15167:   CL.AddTypeS('INTERNET_PORT', 'Word');
15168:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15169:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15170:   Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD) : BOOL;
15171:   'INTERNET_RFC1123_FORMAT','LongInt'( 0 );
15172:   'INTERNET_RFC1123_BUFSIZE','LongInt'( 30 );
15173:   Function InternetCrackUrl(lpszUrl:PChar; dwUrlLength,dwFlags:DWORD; var
15174:   lpUrlComponents:TURLComponents):BOOL;
15175:   Function InternetCreateUrl(var lpUrlComponents:TURLComponents;dwFlags:DWORD;lpszUrl:PChar;var
15176:   dwUrlLength:DWORD):BOOL;
15177:   Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';

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15176: Function
15176:   InternetConnect(hInet:INTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
15176:     lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):INTERNET;
15177:   Function InternetOpenUrl(hInet:INTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
15178:     ;dwContext:DWORD):INTERNET;
15179:   Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
15179:     lpszProxBypass:PChar;dwFlags:DWORD):INTERNET;
15180:   Function InternetQueryDataAvailable(hFile:INTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
15180:     dwContext:DWORD):BOOL;
15181:   Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15182:   Function
15182:     InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15183:   Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15184:   Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15185:   Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15186:   Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15187:   Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15188:   Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
15188:     lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15189:   Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
15189:     lpdwBufferLength : Function InternetCloseHandle( hInet : INTERNET ) : BOOL');
15190:   Function InternetConnect(hInet:INTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar
15191:     ;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD; dwContext:DWORD):INTERNET;
15192:   Function InternetQueryDataAvailable(hFile:INTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
15192:     dwContext:DWORD):BOOL;
15193:   Function FtpFindFirstFile( hConnect : INTERNET; lpszSearchFile : PChar; var lpFindFileData :
15193:     TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : INTERNET');
15194:   Function WFtpGetFile( hConnect : INTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
15194:     BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL';
15195:   Function
15195:     WFtpPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15196:   Function FtpDeleteFile( hConnect : INTERNET; lpszFileName : PChar ) : BOOL';
15197:   Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15198:   Function
15198:     FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15199:   Function FtpCreateDirectory( hConnect : INTERNET; lpszDirectory : PChar ) : BOOL';
15200:   Function FtpRemoveDirectory( hConnect : INTERNET; lpszDirectory : PChar ) : BOOL';
15201:   Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar) : BOOL';
15202:   Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15203:   Function
15203:     FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpSzCommd:PChar;dwContxt:DWORD):BOOL;
15204:   Function IS_GOPHER_FILE( GopherType : DWORD ) : BOOL';
15205:   Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL';
15206:   Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL';
15207:   Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL';
15208:   Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL';
15209:   Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL';
15210:   Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL';
15211:   Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL';
15212:   Function IS_GOPHER_ASK( GopherType : DWORD ) : BOOL';
15213:   Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL';
15214:   Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL';
15215:   Function
15215:     GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
15215:       PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15216:   Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15217:   Function
15217:     GopherOpenFile(hConect:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):INTERNET;
15218:   Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
15218:     PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):INTERNET;
15219:   Function
15219:     HttpAddRequestHeaders(hReg:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15220:   Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar;
15220:     dwHeadersLength:DWORD;lpOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15221:   Function InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15222:   Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD';
15223:   Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15224:   Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15225:   Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL ) : DWORD';
15226:   Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject ) : Int64';
15227:   Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject ) : Bool';
15228:   Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
15228:     lpFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15229:   Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var
15229:     lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15230:   Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15231:   Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15232:   Function
15232:     InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15233:   Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD ) : BOOL';
15234:   end;
15235:
15236: procedure SIRegister_Wwstr(CL: TPSPascalCompiler);
15237: begin
15238:   AddTypeS('str CharSet', 'set of char');
15239:   TwwGetWordOption', '(wwgSkipLeadingBlanks, wwgQuotesAsWords, wwgStripQuotes , wwgSpacesInWords);
15240:   AddTypes('TwwGetWordOptions', 'set of TwwGetWordOption');
15241:   Procedure strBreakApart( s : string; delimiter : string; parts : TStrings)');
15242:   Function strGetToken( s : string; delimiter : string; var APos : integer) : string');

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15243: Procedure strStripPreceding( var s : string; delimiter : strCharSet')';
15244: Procedure strStripTrailing( var s : string; delimiter : strCharSet')';
15245: Procedure strStripWhiteSpace( var s : string')';
15246: Function strRemoveChar( str : string; removeChar : char) : string';
15247: Function wwstrReplaceChar( str : string; removeChar, replaceChar : char) : string';
15248: Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string) : string';
15249: Function wwEqualStr( s1, s2 : string) : boolean';
15250: Function strCount( s : string; delimiter : char) : integer';
15251: Function strWhiteSpace : strCharSet';
15252: Function wwExtractFileNameOnly( const FileName : string) : string';
15253: Function wwGetWord(s:string; var APos:integer;Options:TwwGetWordOptions;DelimSet:strCharSet):string;
15254: Function strTrailing( s : string; delimiter : char) : string';
15255: Function strPreceding( s : string; delimiter : char) : string';
15256: Function wwstrReplace( s, Find, Replace : string) : string';
15257: end;
15258:
15259: procedure SIRegister_DataBkr(CL: TPSPPascalCompiler);
15260: begin
15261:   SIRegister_TRemoteDataModule(CL);
15262:   SIRegister_TCRemoteDataModule(CL);
15263:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)'';
15264:   Procedure UnregisterPooled( const ClassID : string)'';
15265:   Procedure EnableSocketTransport( const ClassID : string)'';
15266:   Procedure DisableSocketTransport( const ClassID : string)'';
15267:   Procedure EnableWebTransport( const ClassID : string)'';
15268:   Procedure DisableWebTransport( const ClassID : string)'';
15269: end;
15270:
15271: procedure SIRegister_Mathbox(CL: TPSPPascalCompiler);
15272: begin
15273:   Function mxArcCos( x : Real) : Real';
15274:   Function mxArcSin( x : Real) : Real';
15275:   Function Comp2Str( N : Comp) : String';
15276:   Function Int2StrPad0( N : LongInt; Len : Integer) : String';
15277:   Function Int2Str( N : LongInt) : String';
15278:   Function mxIsEqual( R1, R2 : Double) : Boolean';
15279:   Function LogXY( x, y : Real) : Real';
15280:   Function Pennies2Dollars( C : Comp) : String';
15281:   Function mxPower( X : Integer; Y : Integer) : Real';
15282:   Function Real2Str( N : Real; Width, Places : integer) : String';
15283:   Function mxStr2Comp( MyString : string) : Comp';
15284:   Function mxStr2Pennies( S : String) : Comp';
15285:   Function Str2Real( MyString : string) : Real';
15286:   Function XToThey( x, y : Real) : Real';
15287: end;
15288:
15289: //*****Cindy Functions!*****
15290: procedure SIRegister_cyIndy(CL: TPSPPascalCompiler);
15291: begin
15292:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml'
15293:     + '_Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach, '
15294:     + 'cmAlterText_Html_RelatedAttach, cmAlterText_Html_Attach_RelatedAttach, cmReadNotification )');
15295:   MessagePlainText', 'String 'text/plain');
15296:   CL.AddConstantN('MessagePlainText_Attach', 'String 'multipart/mixed');
15297:   MessageAlterText_Html', 'String 'multipart/alternative');
15298:   MessageHtml_Attach', 'String 'multipart/mixed');
15299:   MessageHtml_RelatedAttach', 'String 'multipart/related; type="text/html"');
15300:   MessageAlterText_Html_Attach', 'String 'multipart/mixed');
15301:   MessageAlterText_Html_RelatedAttach', 'String ')('multipart/related;type="multipart/alternative"');
15302:   MessageAlterText_Html_Attach_RelatedAttach', 'String 'multipart/mixed');
15303:   MessageReadNotification', 'String ')('multipart/report; report-type="disposition-notification"');
15304:   Function ForceDecodeHeader( aHeader : String) : String';
15305:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding) : string');
15306:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding) : String');
15307:   Function Base64_DecodeToBytes( Value : String) : TBytes');
15308:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15309:   Function Get_MD5( const aFileName : string) : string');
15310:   Function Get_MD5FromString( const aString : string) : string');
15311: end;
15312:
15313: procedure SIRegister_cySysUtils(CL: TPSPPascalCompiler);
15314: begin
15315:   Function IsFolder( SRec : TSearchrec) : Boolean';
15316:   Function isFolderReadOnly( Directory : String) : Boolean';
15317:   Function DirectoryIsEmpty( Directory : String) : Boolean';
15318:   Function DirectoryWithSubDir( Directory : String) : Boolean';
15319:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings)');
15320:   Function DiskFreeBytes( Drv : Char) : Int64';
15321:   Function DiskBytes( Drv : Char) : Int64';
15322:   Function GetFileBytes( Filename : String) : Int64';
15323:   Function GetFilesBytes( Directory, Filter : String) : Int64';
15324:   SE_CREATE_TOKEN_NAME', 'String 'SeCreateTokenPrivilege');
15325:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege');
15326:   SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege');
15327:   SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege');
15328:   SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege');
15329:   SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege');
15330:   SE_TCB_NAME', 'String 'SeTcbPrivilege');
15331:   SE_SECURITY_NAME', 'String 'SeSecurityPrivilege');

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15332: SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege');
15333: SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege');
15334: SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege');
15335: SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege');
15336: SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege');
15337: SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege');
15338: SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege');
15339: SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege');
15340: SE_BACKUP_NAME', 'String 'SeBackupPrivilege');
15341: SE_RESTORE_NAME', 'String 'SeRestorePrivilege');
15342: SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege');
15343: SE_DEBUG_NAME', 'String 'SeDebugPrivilege');
15344: SE_AUDIT_NAME', 'String 'SeAuditPrivilege');
15345: SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege');
15346: SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege');
15347: SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege');
15348: SE_UNDOCK_NAME', 'String 'SeUndockPrivilege');
15349: SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege');
15350: SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege');
15351: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege');
15352: end;
15353:
15354:
15355: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15356: begin
15357:   Type(TWindowsVersion', '( wvUnknown, wvWin31, wvWin95, wvWin98, wvWin'
15358:     + 'Me, wvWinNt3, wvWinNt4, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Or_Upper )');
15359:   Function ShellGetExtensionName( FileName : String ) : String';
15360:   Function ShellGetIconIndex( FileName : String ) : Integer';
15361:   Function ShellGetIconHandle( FileName : String ) : HIcon';
15362:   Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string );
15363:   Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string );
15364:   Procedure ShellRenameDir( DirFrom, DirTo : string );
15365:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15366:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15367:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String );
15368:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string );
15369:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean';
15370:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer );
15371:   Function RemoveDuplicatedPathDelimiter( Str : String ) : String';
15372:   Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime';
15373:   Function GetModificationDate( Filename : String ) : TDateTime';
15374:   Function GetCreationDate( Filename : String ) : TDateTime';
15375:   Function GetLastAccessDate( Filename : String ) : TDateTime';
15376:   Function FileDelete( Filename : String ) : Boolean';
15377:   Function FileIsOpen( Filename : string ) : boolean';
15378:   Procedure FileDelete( FromDirectory : String; Filter : ShortString );
15379:   Function DirectoryDelete( Directory : String ) : Boolean';
15380:   Function GetPrinters( PrintersList : TStrings ) : Integer';
15381:   Procedure SetDefaultPrinter( PrinterName : String );
15382:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer );
15383:   Function WinToDosPath( WinPathName : String ) : String';
15384:   Function DosToWinPath( DosPathName : String ) : String';
15385:   Function cyGetWindowsVersion : TWindowsVersion';
15386:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean';
15387:   Procedure WindowsShutDown( Restart : boolean );
15388:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
FileIcon:string;NumIcone:integer);
15389:   Procedure GetWindowsFonts( FontsList : TStrings );
15390:   Function GetAvailableFilename( DesiredFileName : String ) : String';
15391: end;
15392:
15393: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15394: begin
15395:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15396:   Type(TStrLocateOptions', 'set of TStrLocateOption');
15397:   Type(TStringRead', '( srFromLeft, srFromRight )');
15398:   Type(TStringReads', 'set of TStringRead');
15399:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15400:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15401:   Type(TWordsOptions', 'set of TWordsOption');
15402:   Type(TCarType', '(ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15403:   Type(TCarTypes', 'set of TCarType');
15404:   //CL.AddTypeS('TUnicodeCategories', 'set of TUnicodeCategory');
15405:   CarTypeAlphabetic'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15406:   Function Char_GetType( aChar : Char ) : TCarType';
15407:   Function SubString_Count( Str : String; Separator : Char ) : Integer';
15408:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15409:   Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word ) : String';
15410:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15411:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String );
15412:   Procedure SubString_Insert(var Str:String;Separator:Char;SubStringIndex:Word;Value : String );
15413:   Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word;NewValue : String );
15414:   Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15415:   Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15416:   Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer ): Integer';
15417:   Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15418:   Function String_Quote( Str : String ) : String';

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15419: Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char ) : Char';
15420: Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15421: Function String_GetWord( Str : String; StringRead : TStringRead ) : String');
15422: Function String_GetInteger( Str : String; StringRead : TStringRead ) : String');
15423: Function String_ToInt( Str : String ) : Integer');
15424: Function String_Uppercase( Str : String; Options : TWordsOptions ) : String');
15425: Function String_Lowercase( Str : String; Options : TWordsOptions ) : String');
15426: Function String_Reverse( Str : String ) : String');
15427: Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15428: Function String_Posl(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive : TCaseSensitive):Integer');
15429: Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15430: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String; Inclusive:Boolean):String;
15431: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive ) : String');
15432: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15433: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive) : String');
15434: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads ) : String');
15435: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer ) : String');
15436: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15437: Function String_End( Str : String; Cars : Word ) : String');
15438: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean) : String');
15439: Function String_SubstCar( Str : String; Old, New : Char ) : String');
15440: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive ) : Integer');
15441: Function String_SameCars(Str1,Str2:String;StopCount_IfDiferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15442: Function String_IsNumbers( Str : String ) : Boolean');
15443: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer ) : Integer');
15444: Function StringToCsvCell( aStr : String ) : String');
15445: end;
15446:
15447: procedure SIRegister_cyDateUtils(CL: TPSPascalCompiler);
15448: begin
15449:   Function LongDayName( aDate : TDate ) : String');
15450:   Function LongMonthName( aDate : TDate ) : String');
15451:   Function ShortYearOf( aDate : TDate ) : byte');
15452:   Function DateToStrYYYYMMDD( aDate : TDate ) : String');
15453:   Function StrYYYYMMDDToDate( aStr : String ) : TDate');
15454:   Function SecondsToMinutes( Seconds : Integer ) : Double');
15455:   Function MinutesToSeconds( Minutes : Double ) : Integer');
15456:   Function MinutesToHours( Minutes : Integer ) : Double');
15457:   Function HoursToMinutes( Hours : Double ) : Integer');
15458:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime');
15459:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer );
15460:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime');
15461:   Function GetMinutesBetween( DateTime1, DateTime2 : TDateTime ) : Int64 );
15462:   Function GetMinutesBetween(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15463:   Function GetSecondsBetween( DateTime1, Datetime2 : TDateTime ) : Int64 );
15464:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
RsltBegin:TDateTime; RsltEnd : TDateTime ) : Boolean );
15465:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15466:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean );
15467: end;
15468:
15469: procedure SIRegister_cyObjUtils(CL: TPSPascalCompiler);
15470: begin
15471:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended ) ');
15472:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended ) ');
15473:   Type(TcyLocateOption', '( lCaseInsensitive, 1PartialKey ) ');
15474:   Type(TcyLocateOptions', 'set of TcyLocateOption' );
15475:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer');
15476:   Function StringsLocatel( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer');
15477:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer');
15478:   Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind );
15479:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15480:   Function TreeNodeLocate( ParentNode : TTTreeNode; Value : String ) : TTTreeNode');
15481:   Function TreeNodeLocateOnLevel( TreeView : TTTreeView; OnLevel : Integer; Value : String ) : TTTreeNode');
15482:   Function
TreeNodeGetChildFromIndex(TreeView:TTTreeView;ParentNode:TTTreeNode;ChildIndex:Integer):TTTreeNode';
15483:   Function TreeNodeGetParentOnLevel( ChildNode : TTTreeNode; ParentLevel : Integer ) : TTTreeNode');
15484:   Procedure TreeNodeCopy(FromNode:TTTreeNode;ToNode:TTTreeNode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15485:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormattedString : String );
15486:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15487:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl );
15488:   Procedure cyCenterControl( aControl : TControl );
15489:   Function GetLastParent( aControl : TControl ) : TWinControl );
15490:   Function GetControlBitmap( aControl : TWinControl ) : TBitmap );
15491:   Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap );
15492: end;
15493:
15494: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15495: begin
15496:   Function TablePackTable( Tab : TTable ) : Boolean );
15497:   Function TableRegenIndexes( Tab : TTable ) : Boolean );
15498:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean );
15499:   Function TableUndeleteRecord( Tab : TTable ) : Boolean );
15500:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15501:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean );

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15502: Function TableEmptyTable( Tab : TTable ) : Boolean';
15503: Function TableFindKey( aTable : TTable; Value : String ) : Boolean';
15504: Procedure TableFindNearest( aTable : TTable; Value : String );
15505: Function
  TableCreate(Owner:TComponent; DataBaseName:ShortString; TableName:String; IndexName:ShortString; ReadOnly :
  Boolean):TTable;
15506: Function
  TableOpen( Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool ):Bool;
15507: Function DateToBDESQLODate( aDate : TDate; const DateFormat : String ) : String';
15508: end;
15509:
15510: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15511: begin
15512:   SIRegister_TcyRunTimeDesign(CL);
15513:   SIRegister_TcyShadowText(CL);
15514:   SIRegister_TcyBgPicture(CL);
15515:   SIRegister_TcyGradient(CL);
15516:   SIRegister_TcyBevel(CL);
15517:   //CL.AddTypeS('TcyBevelClass', 'class of tcyBevel');
15518:   SIRegister_TcyBevels(CL);
15519:   SIRegister_TcyImagelistOptions(CL);
15520: Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15521: end;
15522:
15523: procedure SIRegister_cyGraphics(CL: TPSPascalCompiler);
15524: begin
15525:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
  adGradOrientation : TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
  Maxdegree : Byte );
15526:   SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap );
15527:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor:TColor;MaxDegrad : byte);
15528:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor:TColor;MaxDegrad:byte);
15529:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
  Byte; toRect : TRect; OrientationShape : TDgradOrientationShape );
15530:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
  Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap );
15531:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer );
15532:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15533:   Procedure cyFrame( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
  BottomColor : TColor; const Width : Integer; const RoundRect : boolean );
15534:   Procedure cyFrame3D(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
  BottomRightColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Bool;const DrawRight:Bool;const
  DrawBottom:Bool;const RoundRect:bool);
15535:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
  aState : TButtonState; Focused, Hot : Boolean );
15536:   Procedure cyDrawButton(Canvas:TCanvas; Caption:String;ARect:TRect; GradientColor1,GradientColor2:TColor;
  aState : TButtonState; Focused, Hot : Boolean );
15537:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 :
  TColor; aState : TButtonState; Focused, Hot : Boolean );
15538:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
  GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean );
15539:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
  const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor );
15540:   Procedure cyDrawSinglelineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
  TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer );
15541:   Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
  TAlignment;Layout:TTextLayout;WordWrap:Bool):LongInt;
15542:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
  WordWrap : Boolean; CaptionRender : TCaptionRender : LongInt );
15543:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt );
15544:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont;
15545:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont;
15546:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
  CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout );
15547:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
  Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord;
15548:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
  Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord;
15549:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ) : boolean;
15550:   Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean;
15551:   Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean;
15552:   Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean;
15553:   Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );
15554:   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);
15555:   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 );
15556:   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 );
15557:   Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap );
15558:   Function ValidGraphic( aGraphic : TGraphic ) : Boolean;
15559:   Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor;
15560:   Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor;
15561:   Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor;

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15562: Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor');
15563: Function MediumColor( Color1, Color2 : TColor ) : TColor');
15564: Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect');
15565: Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect');
15566: Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect');
15567: Procedure InflateRectPercent( var aRect : TRect; withPercent : Double ) : TRect');
15568: Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect');
15569: Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect');
15570: Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean');
15571: Function PointInEllipse( const aPt : TPoint; const aRect : TRect ) : boolean');
15572: Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer');
15573: end;
15574:
15575: procedure SIRegister_cyTypes(CL: TPSPascalCompiler);
15576: begin
15577:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight )');
15578:   Type(TGlyphLayout', '( glTop, glCenter, glBottom )');
15579:   Type(TDisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome )');
15580:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis )');
15581:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed )');
15582:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15583:     +' bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft)');
15584:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional )');
15585:   Type(TcBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext )');
15586:   Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle )');
15587:   Type(TDgradOrientationShape', '( osRadial, osRectangle )');
15588:   Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15589:   bmInvertReverseFromColor));
15590:   Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15591:   rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight )');
15592:   Type(TLineCoord', 'record BottomCoord : TPoint; TopCoord : TPoint; end');
15593:   cCaptionOrientationWarning', 'String')('Note that text orientation doesn''t work with all fonts! ');
15594: end;
15595:
15596: procedure SIRegister_WinSvc(CL: TPSPascalCompiler);
15597: begin
15598:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15599:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15600:   Const SERVICES_ACTIVE_DATABASE', 'String') 'SERVICES_ACTIVE_DATABASEA');
15601:   Const SERVICES_FAILED_DATABASEA', 'String') 'ServicesFailed');
15602:   Const SERVICES_FAILED_DATABASEW', 'String') 'ServicesFailed');
15603:   Const SC_GROUP_IDENTIFIERA', 'String') '+' );
15604:   Const SC_GROUP_IDENTIFIERW', 'String') '+' );
15605:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15606:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFFF';
15607:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15608:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15609:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15610:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15611:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15612:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15613:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15614:   Const SERVICE_STOPPED', 'LongWord $00000001);
15615:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15616:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15617:   Const SERVICE_RUNNING', 'LongWord $00000004);
15618:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15619:   Const SERVICE_PAUSED', 'LongWord $00000006);
15620:   Const SERVICE_PAUSED', 'LongWord $00000007);
15621:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15622:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15623:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15624:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15625:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15626:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15627:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15628:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15629:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15630:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15631:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15632:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15633:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15634:   Const SERVICE_START', 'LongWord $0010);
15635:   Const SERVICE_STOP', 'LongWord $0020);
15636:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15637:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15638:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15639:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15640:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15641:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15642:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15643:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15644:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15645:   Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15646:   Const SERVICE_BOOT_START', 'LongWord $00000000);
15647:   Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15648:   Const SERVICE_AUTO_START', 'LongWord $00000002);
15649:   Const SERVICE_DEMAND_START', 'LongWord $00000003);

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15649: Const SERVICE_DISABLED', 'LongWord $00000004);
15650: Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15651: Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15652: Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15653: Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15654: CL.AddTypeS('SC_HANDLE', 'THandle');
15655: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15656: CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15657: Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState '
15658: +' : DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15659: +'cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15660: Const SERVICE_STATUS', '_SERVICE_STATUS');
15661: Const TServiceStatus', '_SERVICE_STATUS');
15662: CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15663: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15664: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15665: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15666: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15667: TEnumServiceStatus', 'TenumServiceStatusA');
15668: SC_LOCK', '__Pointer');
15669: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOwner: PChar; dwLockDuration:DWORD;end';
15670: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15671: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15672: QUERY_SERVICE_LOCK_STATUS', 'QUERY_SERVICE_LOCK_STATUSA');
15673: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15674: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15675: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15676: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15677: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15678: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15679: +'iceStartName : PChar; lpdisplayName : PChar; end');
15680: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15681: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15682: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15683: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15684: TQueryServiceConfig', 'TQueryServiceConfigA');
15685: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL';
15686: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15687: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;''
15688: +'lpdwtAgId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar) : SC_HANDLE');
15689: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar; ''
15690: +'lpdwtAgId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar) : SC_HANDLE');
15691: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15692: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL';
15693: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD):BOOL';
15694: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15695: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceNme,lpDisplayName:PChar;var
lpcchBuffer:DWORD):BOOL;
15696: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK');
15697: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL';
15698: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE');
15699: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE';
15700: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL';
15701: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15702: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15703: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15704: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL';
15705: end;
15706:
15707: procedure SIRegister_JvPickDate(CL: TPSPascalCompiler);
15708: begin
15709: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayofWeekName; AWeekends: TDaysOfWeek; AWeekendColor:TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate: TDateTime):Boolean;
15710: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
DlgCaption:TCaption;AStartOfWeek:TDayofWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDateTime);
15711: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15712: Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):TWinControl;
15713: Procedure SetupPopupCalendar( PopupCalendar : TWinControl; AStartOfWeek : TDayofWeekName; AWeekends :
TDaysOfWeek; AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:
TDateTime );
15714: Function CreateNotifyThread(const
FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15715: end;
15716:
15717: procedure SIRegister_JclNTFS2(CL: TPSPascalCompiler);
15718: begin
15719: CL.AddClassN(CL.FindClass('TOBJECT'),'EJclNtfsError');
15720: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15721: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean;');
15722: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState;');

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15723: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean');
15724: Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)');
15725: Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)');
15726: Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)');
15727: Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)');
15728: Function NtfsSetSparse2( const FileName : string ) : Boolean');
15729: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean');
15730: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean');
15731: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean');
15732: Function NtfsGetSparse2( const FileName : string ) : Boolean');
15733: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean');
15734: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean');
15735: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean');
15736: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean');
15737: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean');
15738: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean');
15739: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean');
15740: Function NtfsMountVolume2( const Volume : WideChar; const MountPoint : WideString ) : Boolean');
15741: CL.AddTypeS('TObjLock', '( olExclusive, olReadonly, olBatch, olFilter )');
15742: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15743: Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15744: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15745: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15746: Function NtfsRequestOpLock2( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean');
15747: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean');
15748: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean');
15749: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string ) : Boolean';
15750: CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15751: + 'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )');
15752: CL.AddTypeS('TStreamIds', 'set of TStreamId');
15753: TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15754: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15755: +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15756: Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData) : Bool';
15757: Function NtfsFindNextStream2( var Data : TFindStreamData ) : Boolean');
15758: Function NtfsFindStreamClose2( var Data : TFindStreamData ) : Boolean');
15759: Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean');
15760: Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean');
15761: Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean');
15762: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15763: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean');
15764: Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
List:TStrings) : Bool
15765: Function NtfsDeleteHardlinks2( const FileName : string ) : Boolean');
15766: FindClass('TOBJECT','EJclFileSummaryError');
15767: TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )');
15768: TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )');
15769: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean');
15770: CL.AddClassN(CL.FindClass('TOBJECT'),'TJclFileSummary');
15771: SIRegister_TJclFilePropertySet(CL);
15772: //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15773: SIRegister_TJclFileSummary(CL);
15774: SIRegister_TJclFileSummaryInformation(CL);
15775: SIRegister_TJclDocSummaryInformation(CL);
15776: SIRegister_TJclMediaFileSummaryInformation(CL);
15777: SIRegister_TJclMSISummaryInformation(CL);
15778: SIRegister_TJclShellSummaryInformation(CL);
15779: SIRegister_TJclStorageSummaryInformation(CL);
15780: SIRegister_TJclImageSummaryInformation(CL);
15781: SIRegister_TJclDisplacedSummaryInformation(CL);
15782: SIRegister_TJclBriefCaseSummaryInformation(CL);
15783: SIRegister_TJclMiscSummaryInformation(CL);
15784: SIRegister_TJclWebViewSummaryInformation(CL);
15785: SIRegister_TJclMusicSummaryInformation(CL);
15786: SIRegister_TJclDRMSummaryInformation(CL);
15787: SIRegister_TJclVideoSummaryInformation(CL);
15788: SIRegister_TJclAudioSummaryInformation(CL);
15789: SIRegister_TJclControlPanelSummaryInformation(CL);
15790: SIRegister_TJclVolumeSummaryInformation(CL);
15791: SIRegister_TJclShareSummaryInformation(CL);
15792: SIRegister_TJclLinkSummaryInformation(CL);
15793: SIRegister_TJclQuerySummaryInformation(CL);
15794: SIRegister_TJclImageInformation(CL);
15795: SIRegister_TJclJpegSummaryInformation(CL);
15796: end;
15797:
15798: procedure SIRegister_Jcl18087(CL: TPPascalCompiler);
15799: begin
15800: AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15801: T8087Rounding', '( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate )');
15802: T8087Infinity', '( icProjective, icAffine )');
15803: T8087Exception', '( emInvalidOp, emDenormalizedOperand, emZeroDivide, emOverflow, emUnderflow, emPrecision );
15804: CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15805: Function Get8087ControlWord : Word');
15806: Function Get8087Infinity : T8087Infinity');
15807: Function Get8087Precision : T8087Precision');
15808: Function Get8087Rounding : T8087Rounding');
15809: Function Get8087StatusWord( ClearExceptions : Boolean ) : Word');
15810: Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity);

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15811: Function Set8087Precision( const Precision : T8087Precision) : T8087Precision');
15812: Function Set8087Rounding( const Rounding : T8087Rounding) : T8087Rounding');
15813: Function Set8087ControlWord( const Control : Word) : Word');
15814: Function ClearPending8087Exceptions : T8087Exceptions');
15815: Function GetPending8087Exceptions : T8087Exceptions');
15816: Function GetMasked8087Exceptions : T8087Exceptions');
15817: Function SetMasked8087Exceptions(Exceptions: T8087Exceptions;ClearBefore:Boolean):T8087Exceptions');
15818: Function Mask8087Exceptions( Exceptions:T8087Exceptions) : T8087Exceptions');
15819: Function Unmask8087Exceptions(Exceptions:T8087Exceptions;ClearBefore : Boolean) : T8087Exceptions');
15820: end;
15821:
15822: procedure SIRegister_JvBoxProcs(CL: TPPascalCompiler);
15823: begin
15824: Procedure BoxMoveSelectedItems( SrcList, DstList : TWInControl)');
15825: Procedure BoxMoveAllItems( SrcList, DstList : TWInControl)');
15826: Procedure BoxDragOver(List:TWInControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
15827: Procedure BoxMoveFocusedItem( List : TWInControl; DstIndex : Integer)');
15828: Procedure BoxMoveSelected( List : TWInControl; Items : TStrings)');
15829: Procedure BoxSetItem( List : TWInControl; Index : Integer)');
15830: Function BoxGetFirstSelection( List : TWInControl) : Integer');
15831: Function BoxCanDropItem( List : TWInControl; X, Y : Integer; var DragIndex : Integer) : Boolean');
15832: end;
15833:
15834: procedure SIRegister_UrlMon(CL: TPPascalCompiler);
15835: begin
15836: //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString( 'URL Context');
15837: //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString( 'AsyncCallee');
15838: CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6);
15839: type ULONG', 'Cardinal');
15840:     LPCWSTR', 'PChar');
15841: CL.AddTypeS('LPWSTR', 'PChar');
15842: LPSTR', 'PChar');
15843: TBindVerb', 'ULONG');
15844: TBindInfoF', 'ULONG');
15845: TBindF', 'ULONG');
15846: TBSCF', 'ULONG');
15847: TBindStatus', 'ULONG');
15848: TCIPStatus', 'ULONG');
15849: TBindString', 'ULONG');
15850: TPiFlags', 'ULONG');
15851: TOIBdgFlags', 'ULONG');
15852: TParseAction', 'ULONG');
15853: TPSUAction', 'ULONG');
15854: TQueryOption', 'ULONG');
15855: TPUAF', 'ULONG');
15856: TSZMFlags', 'ULONG');
15857: TUrlZone', 'ULONG');
15858: TUrlTemplate', 'ULONG');
15859: TZAFlags', 'ULONG');
15860: TUrlZoneReg', 'ULONG');
15861: 'URLMON_OPTION_USERAGENT','LongWord').SetUInt( $10000001);
15862: CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH','LongWord').SetUInt( $10000002);
15863: const 'URLMON_OPTION_URL_ENCODING','LongWord').SetUInt( $10000004);
15864: const 'URLMON_OPTION_USE_BINDSTRINGCREDS','LongWord').SetUInt( $10000008);
15865: const 'CF_NULL','LongInt').SetInt( 0);
15866: const 'CFSTR_MIME_NULL','LongInt').SetInt( 0);
15867: const 'CFSTR_MIME_TEXT','String').SetString( 'text/plain');
15868: const 'CFSTR_MIME_RICHTEXT','String').SetString( 'text/richtext');
15869: const 'CFSTR_MIME_X_BITMAP','String').SetString( 'image/x-bitmap');
15870: const 'CFSTR_MIME_POSTSCRIPT','String').SetString( 'application/postscript');
15871: const 'CFSTR_MIME_AIFF','String').SetString( 'audio/aiff');
15872: const 'CFSTR_MIME_BASICAUDIO','String').SetString( 'audio/basic');
15873: const 'CFSTR_MIME_WAV','String').SetString( 'audio/wav');
15874: const 'CFSTR_MIME_X_WAV','String').SetString( 'audio/x-wav');
15875: const 'CFSTR_MIME_GIF','String').SetString( 'image/gif');
15876: const 'CFSTR_MIME_PJPEG','String').SetString( 'image/pjpeg');
15877: const 'CFSTR_MIME_JPEG','String').SetString( 'image/jpeg');
15878: const 'CFSTR_MIME_TIFF','String').SetString( 'image/tiff');
15879: const 'CFSTR_MIME_X_PNG','String').SetString( 'image/x-png');
15880: const 'CFSTR_MIME_BMP','String').SetString( 'image/bmp');
15881: const 'CFSTR_MIME_X_ART','String').SetString( 'image/x-jg');
15882: const 'CFSTR_MIME_X_EMF','String').SetString( 'image/x-emf');
15883: const 'CFSTR_MIME_X_WMF','String').SetString( 'image/x-wmf');
15884: const 'CFSTR_MIME_AVI','String').SetString( 'video/avi');
15885: const 'CFSTR_MIME_MPEG','String').SetString( 'video/mpeg');
15886: const 'CFSTR_MIME_FRACTALS','String').SetString( 'application/fractals');
15887: const 'CFSTR_MIME_RAWDATA','String').SetString( 'application/octet-stream');
15888: const 'CFSTR_MIME_RAWDATASTRM','String').SetString( 'application/octet-stream');
15889: const 'CFSTR_MIME_PDF','String').SetString( 'application/pdf');
15890: const 'CFSTR_MIME_X_AIFF','String').SetString( 'audio/x-aiff');
15891: const 'CFSTR_MIME_X_REALAUDIO','String').SetString( 'audio/x-pn-realaudio');
15892: const 'CFSTR_MIME_X_XBM','String').SetString( 'image/xbm');
15893: const 'CFSTR_MIME_QUICKTIME','String').SetString( 'video/quicktime');
15894: const 'CFSTR_MIME_X_MSVIDEO','String').SetString( 'video/x-msvideo');
15895: const 'CFSTR_MIME_X_SGI_MOVIE','String').SetString( 'video/x-sgi-movie');
15896: const 'CFSTR_MIME_HTML','String').SetString( 'text/html');
15897: const 'MK_S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);
15898: const 'S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);

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15899: const 'E_PENDING', 'LongWord').SetUInt( $80000000);
15900: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15901: SIRegister_IPersistMoniker(CL);
15902: SIRegister_IBindProtocol(CL);
15903: SIRegister_IBinding(CL);
15904: const 'BINDVERB_GET', 'LongWord').SetUInt( $00000000);
15905: const 'BINDVERB_POST', 'LongWord').SetUInt( $00000001);
15906: const 'BINDVERB_PUT', 'LongWord').SetUInt( $00000002);
15907: const 'BINDVERB_CUSTOM', 'LongWord').SetUInt( $00000003);
15908: const 'BINDINFO_URLENCODESTGMEDDATA', 'LongWord').SetUInt( $00000001);
15909: const 'BINDINFO_URLENCODEDEXTRAINFO', 'LongWord').SetUInt( $00000002);
15910: const 'BINDF_ASYNCRONOUS', 'LongWord').SetUInt( $00000001);
15911: const 'BINDF_ASYNCSTORAGE', 'LongWord').SetUInt( $00000002);
15912: const 'BINDF_NOPROGRESSIVERENDERING', 'LongWord').SetUInt( $00000004);
15913: const 'BINDF_OFFLINEOPERATION', 'LongWord').SetUInt( $00000008);
15914: const 'BINDF_GETNEWESTVERSION', 'LongWord').SetUInt( $00000010);
15915: const 'BINDF_NOWRITECACHE', 'LongWord').SetUInt( $00000020);
15916: const 'BINDF_NEEDFILE', 'LongWord').SetUInt( $00000040);
15917: const 'BINDF_PULLDATA', 'LongWord').SetUInt( $00000080);
15918: const 'BINDF_IGNORESECURITYPROBLEM', 'LongWord').SetUInt( $00000100);
15919: const 'BINDF_RESYNCHRONIZE', 'LongWord').SetUInt( $00000200);
15920: const 'BINDF_HYPERLINK', 'LongWord').SetUInt( $00000400);
15921: const 'BINDF_NO_UI', 'LongWord').SetUInt( $00000800);
15922: const 'BINDF_SILENTOPERATION', 'LongWord').SetUInt( $00001000);
15923: const 'BINDF_PRAGMA_NO_CACHE', 'LongWord').SetUInt( $00002000);
15924: const 'BINDF_FREE_THREADED', 'LongWord').SetUInt( $00010000);
15925: const 'BINDF_DIRECT_READ', 'LongWord').SetUInt( $00020000);
15926: const 'BINDF_FORMS_SUBMIT', 'LongWord').SetUInt( $00040000);
15927: const 'BINDF_GETFROMCACHE_IF_NET_FAIL', 'LongWord').SetUInt( $00080000);
15928: //const 'BINDF_DONTUSECACHE', '').SetString( BINDF_GETNEWESTVERSION);
15929: //const 'BINDF_DONTPUTINCACHE', '').SetString( BINDF_NOWRITECACHE);
15930: //const 'BINDF_NOCOPYDATA', '').SetString( BINDF_PULLDATA);
15931: const 'BSCF_FIRSTDATANOTIFICATION', 'LongWord').SetUInt( $00000001);
15932: const 'BSCF_INTERMEDIATEDATANOTIFICATION', 'LongWord').SetUInt( $00000002);
15933: const 'BSCF_LASTDATANOTIFICATION', 'LongWord').SetUInt( $00000004);
15934: const 'BSCF_DATAFULLYAVAILABLE', 'LongWord').SetUInt( $00000008);
15935: const 'BSCF_AVAILABLEDATASIZEUNKNOWN', 'LongWord').SetUInt( $00000010);
15936: const 'BINDSTATUS_FINDINGRESOURCE', 'LongInt').SetInt( 1);
15937: const 'BINDSTATUS_CONNECTING', 'LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
15938: const 'BINDSTATUS_REDIRECTING', 'LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
15939: const 'BINDSTATUS_BEGINLOADADDA', 'LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
15940: const 'BINDSTATUS_DOWNLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINLOADADDA + 1);
15941: const 'BINDSTATUS_ENDDOWNLOADADDA', 'LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
15942: const 'BINDSTATUS_BEGINLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADADDA + 1);
15943: const 'BINDSTATUS_INSTALLINGCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_BEGINLOADCOMPONENTS + 1);
15944: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
15945: const 'BINDSTATUS_USINGCACHEDCOPY', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
15946: const 'BINDSTATUS_SENDINGREQUEST', 'LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
15947: const 'BINDSTATUS_CLASSIDAVAILABLE', 'LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
15948: const 'BINDSTATUS_MIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
15949: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
15950: const 'BINDSTATUS_BEGINSYNCOOPERATION', 'LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
15951: const 'BINDSTATUS_ENDSYNCOOPERATION', 'LongInt').SetInt( BINDSTATUS_BEGINSYNCOOPERATION + 1);
15952: const 'BINDSTATUS_BEGINUPLOADADDA', 'LongInt').SetInt( BINDSTATUS_ENDSYNCOOPERATION + 1);
15953: const 'BINDSTATUS_UPLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINUPLOADADDA + 1);
15954: const 'BINDSTATUS_ENDUPLOADADDA', 'LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
15955: const 'BINDSTATUS_PROTOCOLCLASSID', 'LongInt').SetInt( BINDSTATUS_ENDUPLOADADDA + 1);
15956: const 'BINDSTATUS_ENCODING', 'LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
15957: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_ENCODING + 1);
15958: const 'BINDSTATUS_CLASSINSTALLLOCATION', 'LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
15959: const 'BINDSTATUS_DECODING', 'LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
15960: const 'BINDSTATUS_LOADINGMIMEHANDLER', 'LongInt').SetInt( BINDSTATUS_DECODING + 1);
15961: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH', 'LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
15962: const 'BINDSTATUS_FILTERREPORTMIMETYPE', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
15963: const 'BINDSTATUS_CLSIDCANINSTANTIATE', 'LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
15964: const 'BINDSTATUS_IUNKNOWNAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
15965: const 'BINDSTATUS_DIRECTBIND', 'LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
15966: const 'BINDSTATUS_RAWMIMETYPE', 'LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
15967: const 'BINDSTATUS_PROXYDETECTING', 'LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
15968: const 'BINDSTATUS_ACCEPTRANGES', 'LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
15969: const 'BINDSTATUS_COOKIE_SENT', 'LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
15970: const 'BINDSTATUS_COMPACT_POLICY RECEIVED', 'LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
15971: const 'BINDSTATUS_COOKIE_SUPPRESSED', 'LongInt').SetInt( BINDSTATUS_COMPACT_POLICY RECEIVED + 1);
15972: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN', 'LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
15973: const 'BINDSTATUS_COOKIE_STATE_ACCEPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
15974: const 'BINDSTATUS_COOKIE_STATE_REJECT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
15975: const 'BINDSTATUS_COOKIE_STATE_PROMPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
15976: const 'BINDSTATUS_COOKIE_STATE_LEASH', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
15977: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
15978: const 'BINDSTATUS_POLICY_HREF', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
15979: const 'BINDSTATUS_P3P_HEADER', 'LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
15980: const 'BINDSTATUS_SESSION_COOKIE RECEIVED', 'LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
15981: const 'BINDSTATUS_PERSISTENT_COOKIE RECEIVED', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIE RECEIVED + 1);
15982: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED', 'LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE RECEIVED + 1);
15983: const 'BINDSTATUS_CACHECONTROL', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
15984: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME', 'LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
15985: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
15986: const 'BINDSTATUS_PUBLISHERAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
15987: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);

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15988: // PBindInfo', '^TBindInfo // will not work');
15989: {_tagBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
15990: +'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
15991: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
15992: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
15993: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
15994: TBindInfo', '_tagBINDINFO');
15995: BINDINFO', '_tagBINDINFO');
15996: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
15997: +'criptor : DWORD; bInheritHandle : BOOL; end');
15998: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
15999: REMSECURITY_ATTRIBUTES', '_REMSECURITY_ATTRIBUTES');
16000: //PREmBindInfo', '^TRemBindInfo // will not work');
16001: {_tagRemBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR, '
16002: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16003: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16004: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknown'
16005: +'n; dwReserved : DWORD; end');
16006: TRemBindInfo', '_tagRemBINDINFO');
16007: RemBINDINFO', '_tagRemBINDINFO');
16008: //PREmFormatEtc', '^TRemFormatEtc // will not work');
16009: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16010: TRemFormatEtc', 'tagRemFORMATETC');
16011: RemFORMATETC', 'tagRemFORMATETC');
16012: SIRegister_IBindStatusCallback(CL);
16013: SIRegister_IAuthenticate(CL);
16014: SIRegister_IHttpNegotiate(CL);
16015: SIRegister_IWindowForBindingUI(CL);
16016: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16017: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16018: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16019: const 'CIP_OLDER_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16020: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_OLDER_VERSION_EXISTS + 1);
16021: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16022: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT','LongInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16023: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1);
16024: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16025: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16026: SIRegister_ICodeInstall(CL);
16027: SIRegister_IWinInetInfo(CL);
16028: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16029: SIRegister_IHttpSecurity(CL);
16030: SIRegister_IWinInetHttpInfo(CL);
16031: SIRegister_IBindHost(CL);
16032: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16033: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16034: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16035: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback : HResult');
16036: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback : HResult');
16037: Function URLDownloadTofile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback) : HResult');
16038: Function URLDownloadToCachefile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback) : HResult';
16039: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback:HResult');
16040: Function HlinkGoBack( unk : IUnknown ) : HResult';
16041: Function HlinkGoForward( unk : IUnknown ) : HResult';
16042: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult');
16043: // Function HlinkNavigateMoniker( unk : IUnknown; mkTarget : IMoniker ) : HResult');
16044: SIRegister_IInternet(CL);
16045: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16046: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16047: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16048: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16049: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16050: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16051: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16052: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16053: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16054: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16055: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16056: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);
16057: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16058: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16059: //POLEStrArray', '^TOLESTRArray // will not work';
16060: SIRegister_IInternetBindInfo(CL);
16061: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16062: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16063: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);
16064: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008);
16065: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010);
16066: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020);
16067: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040);
16068: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080);
16069: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16070: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200);
16071: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000);
16072: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP);
16073: //PProtocolData', '^TProtocolData // will not work');

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16074: _tagPROTOCOLDATA', 'record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16075: TProtocolData', '_tagPROTOCOLDATA');
16076: PROTOCOLDATA', '_tagPROTOCOLDATA');
16077: CL.AddInterface(CL.FindInterface('IUNKNOWN'), IInternetProtocolSink, 'IInternetProtocolSink');
16078: SIRegister_IInternetProtocolRoot(CL);
16079: SIRegister_IInternetProtocol(CL);
16080: SIRegister_IInternetProtocolSink(CL);
16081: const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16082: SIRegister_IInternetSession(CL);
16083: SIRegister_IInternetThreadSwitch(CL);
16084: SIRegister_IInternetPriority(CL);
16085: const 'PARSE_CANONICALIZE','LongInt').SetInt( 1);
16086: const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1);
16087: const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1);
16088: const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1);
16089: const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16090: const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1);
16091: const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1);
16092: const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1);
16093: const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1);
16094: const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16095: const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16096: const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16097: const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16098: const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16099: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16100: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16101: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16102: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16103: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16104: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16105: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16106: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16107: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16108: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16109: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16110: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16111: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16112: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16113: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16114: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16115: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16116: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16117: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16118: SIRegister_IInternetProtocolInfo(CL);
16119: IOInet', 'IInternet');
16120: IOInetBindInfo', 'IInternetBindInfo');
16121: IOInetProtocolRoot', 'IInternetProtocolRoot');
16122: IOInetProtocol', 'IInternetProtocol');
16123: IOInetProtocolSink', 'IInternetProtocolSink');
16124: IOInetProtocolInfo', 'IInternetProtocolInfo');
16125: IOInetSession', 'IInternetSession');
16126: IOInetPriority', 'IInternetPriority');
16127: IOInetThreadSwitch', 'IInternetThreadSwitch');
16128: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16129: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16130: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16131: Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags DWORD;dwReserved:DWORD):HResult';
16132: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16133: Function CoInternetGetSession(dwSessionMode:DWORD; var pIInternetSession: IInternetSes;dwReserved:DWORD):HResult;
16134: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16135: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16136: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16137: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16138: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult';
16139: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16140: Function OInetGetSession(dwSessionMode:DWORD; var pIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16141: //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16142: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16143: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult( $800C0011 ) );
16144: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult( $800C0012 ) );
16145: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult( $800C0011 ), );
16146: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult( $800C0013 ) );
16147: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult( $800C0014 ) );
16148: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001 );
16149: SIRegister_IInternetSecurityMgrSite(CL);
16150: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001 );
16151: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002 );
16152: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000008 );
16153: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100 );

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16154: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16155: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16156: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16157: const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16158: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);
16159: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004);
16160: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008);
16161: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010);
16162: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020);
16163: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040);
16164: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16165: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16166: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200);
16167: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16168: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000);
16169: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000);
16170: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000);
16171: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000);
16172: const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000);
16173: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0);
16174: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1);
16175: const 'SZM_CREATE','LongWord').SetUInt( $00000000);
16176: const 'SZM_DELETE','LongWord').SetUInt( $00000001);
16177: SIRegister_IInternetSecurityManager(CL);
16178: SIRegister_IInternetHostSecurityManager(CL);
16179: SIRegister_IInternetSecurityManagerEx(CL);
16180: const 'URLACTION_MIN','LongWord').SetUInt( $00001000);
16181: const 'URLACTION_DOWNLOAD_MIN','LongWord').SetUInt( $00001000);
16182: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX','LongWord').SetUInt( $00001001);
16183: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX','LongWord').SetUInt( $00001004);
16184: const 'URLACTION_DOWNLOAD_CURR_MAX','LongWord').SetUInt( $00001004);
16185: const 'URLACTION_DOWNLOAD_MAX','LongWord').SetUInt( $000011FF);
16186: const 'URLACTION_ACTIVEX_MIN','LongWord').SetUInt( $00001200);
16187: const 'URLACTION_ACTIVEX_RUN','LongWord').SetUInt( $00001200);
16188: const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY','LongWord').SetUInt( $00001201);
16189: const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY','LongWord').SetUInt( $00001202);
16190: const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY','LongWord').SetUInt( $00001203);
16191: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY','LongWord').SetUInt( $00001401);
16192: const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY','LongWord').SetUInt( $00001204);
16193: const 'URLACTION_ACTIVEX_TREATASUNTRUSTED','LongWord').SetUInt( $00001205);
16194: const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT','LongWord').SetUInt( $00001206);
16195: const 'URLACTION_ACTIVEX_CURR_MAX','LongWord').SetUInt( $00001206);
16196: const 'URLACTION_ACTIVEX_MAX','LongWord').SetUInt( $000013FF);
16197: const 'URLACTION_SCRIPT_MIN','LongWord').SetUInt( $00001400);
16198: const 'URLACTION_SCRIPT_RUN','LongWord').SetUInt( $00001400);
16199: const 'URLACTION_SCRIPT_JAVA_USE','LongWord').SetUInt( $00001402);
16200: const 'URLACTION_SCRIPT_SAFE_ACTIVEX','LongWord').SetUInt( $00001405);
16201: const 'URLACTION_SCRIPT_CURR_MAX','LongWord').SetUInt( $00001405);
16202: const 'URLACTION_SCRIPT_MAX','LongWord').SetUInt( $000015FF);
16203: const 'URLACTION_HTML_MIN','LongWord').SetUInt( $00001600);
16204: const 'URLACTION_HTML_SUBMIT_FORMS','LongWord').SetUInt( $00001601);
16205: const 'URLACTION_HTML_SUBMIT_FORMS_FROM','LongWord').SetUInt( $00001602);
16206: const 'URLACTION_HTML_SUBMIT_FORMS_TO','LongWord').SetUInt( $00001603);
16207: const 'URLACTION_HTML_FONT_DOWNLOAD','LongWord').SetUInt( $00001604);
16208: const 'URLACTION_HTML_JAVA_RUN','LongWord').SetUInt( $00001605);
16209: const 'URLACTION_HTML_CURR_MAX','LongWord').SetUInt( $00001605);
16210: const 'URLACTION_HTML_MAX','LongWord').SetUInt( $000017FF);
16211: const 'URLACTION_SHELL_MIN','LongWord').SetUInt( $00001800);
16212: const 'URLACTION_SHELL_INSTALL_DTITEMS','LongWord').SetUInt( $00001800);
16213: const 'URLACTION_SHELL_MOVE_OR_COPY','LongWord').SetUInt( $00001802);
16214: const 'URLACTION_SHELL_FILE_DOWNLOAD','LongWord').SetUInt( $00001803);
16215: const 'URLACTION_SHELL_VERB','LongWord').SetUInt( $00001804);
16216: const 'URLACTION_SHELL_WEBVIEW_VERB','LongWord').SetUInt( $00001805);
16217: const 'URLACTION_SHELL_SHELLEXECUTE','LongWord').SetUInt( $00001806);
16218: const 'URLACTION_SHELL_EXECUTE_HIGHRISK','LongWord').SetUInt( $00001806);
16219: const 'URLACTION_SHELL_EXECUTE_MODRISK','LongWord').SetUInt( $00001807);
16220: const 'URLACTION_SHELL_EXECUTE_LOWRISK','LongWord').SetUInt( $00001808);
16221: const 'URLACTION_SHELL_POPUPMGR','LongWord').SetUInt( $00001809);
16222: const 'URLACTION_SHELL_CURR_MAX','LongWord').SetUInt( $00001809);
16223: const 'URLACTION_SHELL_MAX','LongWord').SetUInt( $000019ff);
16224: const 'URLACTION_NETWORK_MIN','LongWord').SetUInt( $00001A00);
16225: const 'URLACTION_CREDENTIALS_USE','LongWord').SetUInt( $00001A00);
16226: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK','LongWord').SetUInt( $00000000);
16227: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER','LongWord').SetUInt( $00010000);
16228: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT','LongWord').SetUInt( $00020000);
16229: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY','LongWord').SetUInt( $00030000);
16230: const 'URLACTION_AUTHENTICATE_CLIENT','LongWord').SetUInt( $00001A01);
16231: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK','LongWord').SetUInt( $00000000);
16232: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE','LongWord').SetUInt( $00010000);
16233: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY','LongWord').SetUInt( $00030000);
16234: const 'URLACTION_NETWORK_CURR_MAX','LongWord').SetUInt( $00001A01);
16235: const 'URLACTION_NETWORK_MAX','LongWord').SetUInt( $00001BFF);
16236: const 'URLACTION_JAVA_MIN','LongWord').SetUInt( $00001C00);
16237: const 'URLACTION_JAVA_PERMISSIONS','LongWord').SetUInt( $00001C00);
16238: const 'URLPOLICY_JAVA_PROHIBIT','LongWord').SetUInt( $00000000);
16239: const 'URLPOLICY_JAVA_HIGH','LongWord').SetUInt( $00010000);
16240: const 'URLPOLICY_JAVA_MEDIUM','LongWord').SetUInt( $00020000);
16241: const 'URLPOLICY_JAVA_LOW','LongWord').SetUInt( $00030000);
16242: const 'URLPOLICY_JAVA_CUSTOM','LongWord').SetUInt( $00800000);

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16243: const 'URLACTION_JAVA_CURR_MAX','LongWord').SetUInt( $00001C00);
16244: const 'URLACTION_JAVA_MAX','LongWord').SetUInt( $00001CFF);
16245: const 'URLACTION_INFODELIVERY_MIN','LongWord').SetUInt( $00001D00);
16246: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS','LongWord').SetUInt( $00001D00);
16247: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS','LongWord').SetUInt( $00001D01);
16248: const 'URLACTION_INFODELIVERY_NO_Removing_CHANNELS','LongWord').SetUInt( $00001D02);
16249: const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D03);
16250: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D04);
16251: const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS','LongWord').SetUInt( $00001D05);
16252: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING','LongWord').SetUInt( $00001D06);
16253: const 'URLACTION_INFODELIVERY_CURR_MAX','LongWord').SetUInt( $00001D06);
16254: const 'URLACTION_INFODELIVERY_MAX','LongWord').SetUInt( $00001DEF);
16255: const 'URLACTION_CHANNEL_SOFTDIST_MIN','LongWord').SetUInt( $00001E00);
16256: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS','LongWord').SetUInt( $00001E05);
16257: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT','LongWord').SetUInt( $00010000);
16258: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE','LongWord').SetUInt( $00020000);
16259: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL','LongWord').SetUInt( $00030000);
16260: const 'URLACTION_CHANNEL_SOFTDIST_MAX','LongWord').SetUInt( $00001EFF);
16261: const 'URLACTION_BEHAVIOR_MIN','LongWord').SetUInt( $00002000);
16262: const 'URLACTION_BEHAVIOR_RUN','LongWord').SetUInt( $00002000);
16263: const 'URLPOLICY_BEHAVIOR_CHECK_LIST','LongWord').SetUInt( $00001000);
16264: const 'URLACTION_FEATURE_MIN','LongWord').SetUInt( $00002100);
16265: const 'URLACTION_FEATURE_MIME_SNIFFING','LongWord').SetUInt( $00002100);
16266: const 'URLACTION_FEATURE_ZONE_ELEVATION','LongWord').SetUInt( $00002101);
16267: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS','LongWord').SetUInt( $00002102);
16268: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN','LongWord').SetUInt( $00002200);
16269: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI','LongWord').SetUInt( $00002200);
16270: const 'URLACTION_AUTOMATIC_ACTIVEX_UI','LongWord').SetUInt( $00002201);
16271: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS','LongWord').SetUInt( $00002300);
16272: const 'URLPOLICY_ALLOW','LongWord').SetUInt( $00);
16273: const 'URLPOLICY_QUERY','LongWord').SetUInt( $01);
16274: const 'URLPOLICY_DISALLOW','LongWord').SetUInt( $03);
16275: const 'URLPOLICY_NOTIFY_ON_ALLOW','LongWord').SetUInt( $10);
16276: const 'URLPOLICY_NOTIFY_ON_DISALLOW','LongWord').SetUInt( $20);
16277: const 'URLPOLICY_LOG_ON_ALLOW','LongWord').SetUInt( $40);
16278: const 'URLPOLICY_LOG_ON_DISALLOW','LongWord').SetUInt( $80);
16279: const 'URLPOLICY_MASK_PERMISSIONS','LongWord').SetUInt( $0F);
16280: Function GetUrlPolicyPermissions( dw : DWORD ) : DWORD';
16281: Function SetUrlPolicyPermissions( dw, dw2 : DWORD ) : DWORD';
16282: const 'URLZONE_PREDEFINED_MIN','LongInt').SetInt( 0);
16283: const 'URLZONE_LOCAL_MACHINE','LongInt').SetInt( 0);
16284: const 'URLZONE_INTRANET','LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16285: const 'URLZONE_TRUSTED','LongInt').SetInt( URLZONE_INTRANET + 1);
16286: const 'URLZONE_INTERNET','LongInt').SetInt( URLZONE_TRUSTED + 1);
16287: const 'URLZONE_UNTRUSTED','LongInt').SetInt( URLZONE_INTERNET + 1);
16288: const 'URLZONE_PREDEFINED_MAX','LongInt').SetInt( 999);
16289: const 'URLZONE_USER_MIN','LongInt').SetInt( 1000);
16290: const 'URLZONE_USER_MAX','LongInt').SetInt( 10000);
16291: const 'URLTEMPLATE_CUSTOM','LongWord').SetUInt( $00000000);
16292: const 'URLTEMPLATE_PREDEFINED_MIN','LongWord').SetUInt( $00010000);
16293: const 'URLTEMPLATE_LOW','LongWord').SetUInt( $00010000);
16294: const 'URLTEMPLATE_MEDIUM','LongWord').SetUInt( $00011000);
16295: const 'URLTEMPLATE_HIGH','LongWord').SetUInt( $00012000);
16296: const 'URLTEMPLATE_PREDEFINED_MAX','LongWord').SetUInt( $00020000);
16297: const 'MAX_ZONE_PATH','LongInt').SetInt( 260);
16298: const 'MAX_ZONE_DESCRIPTION','LongInt').SetInt( 200);
16299: const 'ZAFLAGS_CUSTOM_EDIT','LongWord').SetUInt( $00000001);
16300: const 'ZAFLAGS_ADD_SITES','LongWord').SetUInt( $00000002);
16301: const 'ZAFLAGS_REQUIRE_VERIFICATION','LongWord').SetUInt( $00000004);
16302: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE','LongWord').SetUInt( $00000008);
16303: const 'ZAFLAGS_INCLUDE_INTRANET_SITES','LongWord').SetUInt( $00000010);
16304: const 'ZAFLAGS_NO_UI','LongWord').SetUInt( $00000020);
16305: const 'ZAFLAGS_SUPPORTS_VERIFICATION','LongWord').SetUInt( $00000040);
16306: const 'ZAFLAGS_UNC_AS_INTRANET','LongWord').SetUInt( $00000080);
16307: const 'ZAFLAGS_USE_LOCKED_ZONES','LongWord').SetUInt( $00010000);
16308: //PZoneAttributes', '_ZoneAttributes // will not work';
16309: _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');
16310: { _ZONEATTRIBUTES = packed record
16311:   cbSize: ULONG;
16312:   szDisplayName: array [0..260 - 1] of WideChar;
16313:   szDescription: array [0..200 - 1] of WideChar;
16314:   szIconPath: array [0..260 - 1] of WideChar;
16315:   dwTemplateMinLevel: DWORD;
16316:   dwTemplateRecommended: DWORD;
16317:   dwTemplateCurrentLevel: DWORD;
16318:   dwFlags: DWORD;
16319: end;
16320: TZoneAttributes', '_ZONEATTRIBUTES');
16321: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16322: const 'URLZONEREG_DEFAULT','LongInt').SetInt( 0);
16323: const 'URLZONEREG_HKLM','LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16324: const 'URLZONEREG_HKCU','LongInt').SetInt( URLZONEREG_HKLM + 1);
16325: SIRegister_IInternetZoneManager(CL);
16326: SIRegister_IInternetZoneManagerEx(CL);
16327: const 'SOFTDIST_FLAG_USAGE_EMAIL','LongWord').SetUInt( $00000001);
16328: const 'SOFTDIST_FLAG_USAGE_PRECACHE','LongWord').SetUInt( $00000002);
16329: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL','LongWord').SetUInt( $00000004);

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16330: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16331: const 'SOFTDIST_ASTATE_NONE','LongWord').SetUInt( $00000000);
16332: const 'SOFTDIST_ASTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16333: const 'SOFTDIST_ASTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16334: const 'SOFTDIST_ASTATE_INSTALLED','LongWord').SetUInt( $00000003);
16335: //PCodeBaseHold', '^TCodeBaseHold // will not work');
16336: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16337: +'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionsLS : DWORD; dwStyle : DWORD; end');
16338: TCodeBaseHold', '_tagCODEBASEHOLD');
16339: CODEBASEHOLD', '_tagCODEBASEHOLD');
16340: //PSoftDistInfo', '^TSoftDistInfo // will not work');
16341: _tagsOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd'
16342: +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI'
16343: +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16344: +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve'
16345: +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16346: TSoftDistInfo', '_tagSOFDTDISTINFO');
16347: SOFTDISTINFO', '_tagSOFDTDISTINFO');
16348: SIRegister_ISoftDistExt(CL);
16349: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo) : HResult');
16350: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult';
16351: SIRegister_IDataFilter(CL);
16352: // PProtocolFilterData', '^TProtocolFilterData // will not work');
16353: _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : '
16354: +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16355: +'terFlags : DWORD; end');
16356: TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16357: PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16358: //PDataInfo', '^TDataInfo // will not work');
16359: _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16360: +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16361: TDataInfo', '_tagDATAINFO');
16362: DATAINFO', '_tagDATAINFO');
16363: SIRegister_IEncodingFilterFactory(CL);
16364: Function IsLoggingEnabled( pszUrl : PChar) : BOOL';
16365: //Function IsLoggingEnabledA( pszUrl : PAnsiChar) : BOOL';
16366: //Function IsLoggingEnabledW( pszUrl : PWideChar) : BOOL';
16367: //PHitLoggingInfo', 'THitLoggingInfo // will not work');
16368: _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16369: +'rlName : LPSTR; StartTime : TSystemTime; EndTime:TSystemTime; lpszExtendedInfo : LPSTR; end');
16370: THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16371: HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16372: Function WriteHitLogging( const Logginginfo : THitLoggingInfo) : BOOL';
16373: end;
16374:
16375: procedure SIRegister_DFFUtils(CL: TPPascalCompiler);
16376: begin
16377: Procedure reformatMemo( const m : TCustomMemo)');
16378: Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer)');
16379: Procedure MoveToTop( memo : TMemo)');
16380: Procedure ScrollToTop( memo : TMemo)');
16381: Function LineNumberClicked( memo : TMemo) : integer');
16382: Function MemoClickedLine( memo : TMemo) : integer');
16383: Function ClickedMemoLine( memo : TMemo) : integer');
16384: Function MemoLineClicked( memo : TMemo) : integer');
16385: Function LinePositionClicked( Memo : TMemo) : integer');
16386: Function ClickedMemoPosition( memo : TMemo) : integer');
16387: Function MemoPositionClicked( memo : TMemo) : integer');
16388: Procedure AdjustGridSize( grid : TDrawGrid)');
16389: Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer)');
16390: Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer)');
16391: Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer)');
16392: Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascendant : boolean;');
16393: Procedure sortstrDown( var s : string)');
16394: Procedure sortstrUp( var s : string)');
16395: Procedure rotatestrleft( var s : string)');
16396: Function dffstrtofloatdef( s : string; default : extended) : extended');
16397: Function deblank( s : string) : string');
16398: Function IntToBinaryString( const n : integer; MinLength : integer) : string');
16399: Procedure FreeAndClearListBox( C : TListBox)');
16400: Procedure FreeAndClearMemo( C : TMemo)');
16401: Procedure FreeAndClearStringList( C : TStringList)');
16402: Function dffgetfilesize( f : TSearchrec) : int64');
16403: end;
16404:
16405: procedure SIRegister_MathsLib(CL: TPPascalCompiler);
16406: begin
16407: CL.AddTypeS('intset', 'set of byte');
16408: TPoint64', 'record x : int64; y : int64; end');
16409: Function GetNextPandigital( size : integer; var Digits : array of integer) : boolean');
16410: Function IsPolygonal( T : int64; var rank : array of integer) : boolean');
16411: Function GeneratePentagon( n : integer) : integer');
16412: Function IsPentagon( p : integer) : boolean');
16413: Function isSquare( const N : int64) : boolean');
16414: Function isCube( const N : int64) : boolean');
16415: Function isPalindrome( const n : int64) : boolean');
16416: Function isPalindromel( const n : int64; var len : integer) : boolean');
16417: Function GetEulerPhi( n : int64) : int64');

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16418: Function dffIntPower( a, b : int64 ) : int64;');
16419: Function IntPower1( a : extended; b : int64 ) : extended;');
16420: Function gcd2( a, b : int64 ) : int64');
16421: Function GCDMany( A : array of integer ) : integer');
16422: Function LCMMany( A : array of integer ) : integer');
16423: Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16424: Function dffFactorial( n : int64 ) : int64');
16425: Function digitcount( n : int64 ) : integer');
16426: Function nextpermute( var a : array of integer ) : boolean');
16427: Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string');
16428: Function convertStringToDecimal( s : string; var n : extended ) : Boolean');
16429: Function InttoBinaryStr( nn : integer ) : string');
16430: Function StrToAngle( const s : string; var angle : extended ) : boolean');
16431: Function AngleToStr( angle : extended ) : string');
16432: Function deg2rad( deg : extended ) : extended');
16433: Function rad2deg( rad : extended ) : extended');
16434: Function GetLongToMercProjection( const long : extended ) : extended');
16435: Function GetLatToMercProjection( const Lat : Extended ) : Extended');
16436: Function GetMercProjectionToLong( const ProjLong : extended ) : extended');
16437: Function GetMercProjectionToLat( const ProjLat : extended ) : extended');
16438: SIRegister_TPrimes(CL);
16439: //RIRegister_TPrimes(CL);
16440: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16441: CL.AddConstantN('minmark','LongInt').SetInt( 180));
16442: Function Random64( const N : Int64 ) : Int64;');
16443: Procedure Randomize64');
16444: Function Random64l : extended;');
16445: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)');
16446: end;
16447:
16448: procedure SIRegister_UGeometry(CL: TPSPPascalCompiler);
16449: begin
16450:   TrealPoint', 'record x : extended; y : extended; end');
16451:   Tline', 'record pl : TPoint; p2 : TPoint; end');
16452:   TRealLine', 'record pl : TRealPoint; p2 : TRealPoint; end');
16453:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16454:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16455:   PPResult', '( PPOutside, PPIInside, PPVertex, PPEdge, PPError )');
16456:   Function realpoint( x, y : extended ) : TRealPoint');
16457:   Function dist( const pl, p2 : TrealPoint ) : extended');
16458:   Function intdist( const pl, p2 : TPoint ) : integer');
16459:   Function dffLine( const pl, p2 : TPoint ) : Tline');
16460:   Function Linel( const pl, p2 : TRealPoint ) : TRealline');
16461:   Function dffCircle( const cx, cy, R : integer ) : TCircle');
16462:   Function Circlel( const cx, cy, R : extended ) : TRealCircle');
16463:   Function GetTheta( const L : TLine ) : extended');
16464:   Function GetTheta1( const pl, p2 : TPoint ) : extended');
16465:   Function GetTheta2( const pl, p2 : TRealPoint ) : extended');
16466:   Procedure Extendline( var L : TLine; dist : integer );
16467:   Procedure Extendline1( var L : TRealLine; dist : extended );
16468:   Function Linesintersect( linel, line2 : TLine ) : boolean');
16469:   Function ExtendedLinesIntersect( Line1,Line2:TLine; const extendlines:bool;var IP:TPoint ):bool;
16470:   Function ExtendedLinesIntersect1(const Line1,Line2:TLine;const extendlines:bool;var IP:TRealPoint ):bool;
16471:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean');
16472:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine');
16473:   Function PerpDistance( L : TLine; P : TPoint ) : Integer');
16474:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine');
16475:   Function AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16476:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult');
16477:   Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var Clockwise:bool):integer;
16478:   Procedure InflatePolygon(const points:array of Tpoint; var points2:array of TPoint;var area:integer;
16479:     const screenCoordinates : boolean; const inflateby : integer)');
16480:   Function PolyBuiltClockwise(const points:array of TPoint;const screencoordinates:boolean):bool;
16481:   Function DegtоРад( d : extended ) : extended');
16482:   Function RadtoDeg( r : extended ) : extended');
16483:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint );
16484:   Procedure TranslateLeftTo1( var L : TrealLine; newend : TrealPoint );
16485:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16486:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16487:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint ) : boolean');
16488:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint ) : boolean');
16489:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean');
16490:   Function CircleCircleExtTangentLines(C1,C2:TCircle;var L1,L2,PL1,PL2,TL1,TL2:TLine):Bool;
16491: end;
16492:
16493:
16494: procedure SIRegister_UAstronomy(CL: TPSPPascalCompiler);
16495: begin
16496:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat )');
16497:   TDTType', '( ttLocal, ttUT, ttGST, ttLST )');
16498:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16499:   TSunrec', 'record TrueEclLon:extended;
16500:     AppEclLon:extended;AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
16501:     TrueAzAlt:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRPoint;SunMeanAnomaly:extended;end;
      TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
      +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'

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16502: +'arth : extended; Phase : extended; end');
16503: TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16504: +'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDatetime; end');
16505: TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16506: +'ct : TDatetime; LastContact : TDatetime; Magnitude:Extended;MaxeclipseUTime:TDateTme;end');
16507: TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16508: TPlanetRec', 'record AsOf : TDateTime; Name : string; MeanLon : '
16509: +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16510: +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16511: +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16512: TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRpoint; RadiusVector :
extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRpoint; CorrectedEarthDistance:extended;
ApparentRaDecl:TRPoint; end');
16513: SIRegister_TAstromy(CL);
16514: Function AngleToStr( angle : extended) : string');
16515: Function StrToAngle( s : string; var angle : extended) : boolean');
16516: Function HoursToStr24( t : extended) : string');
16517: Function RPoint( x, y : extended) : TRPoint');
16518: Function getStimename( t : TDTType) : string');
16519: end;
16520:
16521: procedure SIRegister_UCardComponentV2(CL: TPSPPascalCompiler);
16522: begin
16523: TCardValue', 'Integer');
16524: TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16525: TShortSuit', '( cardS, cardD, cardC, cardH )');
16526: Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16527: SIRegister_TCard(CL);
16528: SIRegister_TDeck(CL);
16529: end;
16530:
16531: procedure SIRegister_UTGraphSearch(CL: TPSPPascalCompiler);
16532: begin
16533: tMethodCall', 'Procedure');
16534: tVerboseCall', 'Procedure ( s : string)');
16535: // PTEdge', '^TEdge // will not work');
16536: TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16537: +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16538: SIRegister_TNode(CL);
16539: SIRegister_TGraphList(CL);
16540: end;
16541:
16542: procedure SIRegister_UParser10(CL: TPSPPascalCompiler);
16543: begin
16544: ParserFloat', 'extended');
16545: //PParserFloat', '^ParserFloat // will not work');
16546: TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod';
16547: +'ulo, IntDiv, IntDIVZ, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar ');
16548: //POperation', '^TOperation // will not work');
16549: TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16550: +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure';
16551: +'; Token : TDFFToken; end');
16552: TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16553: (CL.FindClass('TOBJECT'),'EParserError');
16554: CL.FindClass('TOBJECT'),'ESyntaxError');
16555: (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16556: (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16557: (CL.FindClass('TOBJECT'),'ETooManyNestings');
16558: (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16559: (CL.FindClass('TOBJECT'),'EBadName');
16560: (CL.FindClass('TOBJECT'),'EParseInternalError');
16561: ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16562: SIRegister_TCustomParser(CL);
16563: SIRegister_TExParser(CL);
16564: end;
16565:
16566: function isService: boolean;
16567: begin
16568: result:= NOT(Application is TApplication);
16569: {result:= Application is TServiceApplication;}
16570: end;
16571: function isApplication: boolean;
16572: begin
16573: result:= Application is TApplication;
16574: end;
16575: //SM_REMOTESESSION = $1000
16576: function isTerminalSession: boolean;
16577: begin
16578: result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16579: end;
16580:
16581: procedure SIRegister_cyIEUtils(CL: TPSPPascalCompiler);
16582: begin
16583: CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16584: +'String; margin_bottom : String; margin_left : String; margin_right : String'
16585: +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16586: Function cyURLEncode( const S : string ) : string');
16587: Function MakeResourceURL(const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16588: Function MakeResourceURL1(const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;

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16589: Function cyColorToHtml( aColor : TColor ) : String';
16590: Function HtmlToColor( aHtmlColor : String ) : TColor';
16591: //Function GetStreamEncoding( aStream : TStream ) : TEncoding';
16592: // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean';
16593: Function AddHtmlUnicodePrefix( aHtml : String ) : String';
16594: Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16595: Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16596: Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16597: CL.AddConstantN('IEBodyBorderless','String').SetString('none');
16598: CL.AddConstantN('IEBodySingleBorder','String').SetString('');
16599: CL.AddConstantN('IEDesignModeOn','String').SetString('On');
16600: CL.AddConstantN('IEDesignModeOff','String').SetString('Off');
16601: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16602: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16603: end;
16604:
16605:
16606: procedure SIRегистer_UcomboV2(CL: TPSPascalCompiler);
16607: begin
16608: CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16609: CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16610: +'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'
16611: +'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16612: +'inationsRepeat, CombinationsRepeatDown )');
16613: CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16614: SIRегистer_TComboSet(CL);
16615: end;
16616:
16617: procedure SIRегистer_cyBaseComm(CL: TPSPascalCompiler);
16618: begin
16619: TcyCommandType', '( ctDevelopperDefined, ctUserDefined )');
16620: TStreamContentType', '( scDevelopperDefined, scUserDefined, scString )';
16621: TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16622: TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16623: +'mmHandle : THandle; aString : String; userParam : Integer )';
16624: TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16625: +'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16626: SIRегистer_TcyBaseComm(CL);
16627: CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16628: CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16629: Function ValidatefileMappingName( aName : String ) : String';
16630: procedure makeCaption(leftSide, Rightside:string; form:TForm);
16631: end;
16632:
16633: procedure SIRегистer_cyDERUtils(CL: TPSPascalCompiler);
16634: begin
16635: CL.AddTypeS('DERString', 'String');
16636: CL.AddTypeS('DERChar', 'Char');
16637: CL.AddTypeS('TEElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16638: +'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16639: CL.AddTypeS('TEElementsTypes', 'set of TEElementsType');
16640: CL.AddTypeS('DERNString', 'String');
16641: const DERDecimalSeparator,'String').SetString( '.' );
16642: const DERDefaultChars','String')(+^@/%-
_..:0123456789abcdefghijklmnoprstuvwxyzABCDEFIGHJKLMNOPQRSTUVWXYZ');
16643: const DERDefaultChars','String').SetString( '/%-.0123456789abcdefghijklmnoprstuvwxyz' );
16644: CL.AddDelphiFunction('Function isValidWebSiteChar( aChar : Char ) : Boolean');
16645: Function isValidWebMailChar( aChar : Char ) : Boolean';
16646: Function isValidwebSite( aStr : String ) : Boolean';
16647: Function isValidWebMail( aStr : String ) : Boolean';
16648: Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16649: Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16650: Function IsDERChar( aChar : Char ) : Boolean';
16651: Function IsDERDefaultChar( aChar : Char ) : Boolean';
16652: Function IsDERMoneyChar( aChar : Char ) : Boolean';
16653: Function IsDERExceptionCar( aChar : Char ) : Boolean';
16654: Function IsDERSymbols( aDERString : String ) : Boolean';
16655: Function StringToDERCharSet( aStr : String ) : DERstring';
16656: Function IsDERNDefaultChar( aChar : Char ) : Boolean';
16657: Function IsDERNChar( aChar : Char ) : Boolean';
16658: Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16659: Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16660: Function DERExtractWebMail( aDERStr : DERString ) : String';
16661: Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16662: Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16663: Function DERExecute1(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16664: Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
aElementsType : TEelementsType ) : String';
16665: Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
Boolean; var RsltDERStr : DERString; var RsltElementType : TEelementsType );';
16666: end;
16667:
16668: procedure SIRегистer_cyImage(CL: TPSPascalCompiler);
16669: begin
16670: pRGBQuadArray', '^TRGBQuadArray // will not work';
16671: Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer';

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16672: Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16673: Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16674: Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16675: Procedure BitmapSetPixelsContrast( Bmp : TBitmap; Incpixels : Integer; RefreshBmp : Boolean)');
16676: Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean)');
16677: Procedure BitmapModifyRGB(Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool;
16678: Procedure BitmapReplaceColor(Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean)');
16679: Procedure BitmapReplaceColor1(Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor : Boolean;RefreshBmp:Bool;');
16680: Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean)');
16681: Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean)');
16682: Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor)');
16683: Procedure BitmapBlur(SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool;
16684: Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16685: Procedure GraphicMirror1(Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean;');
16686: Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16687: Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word)');
16688: Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String)');
16689: end;
16690:
16691:
16692: {A simple Oscilloscope using TWaveIn class.
16693: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
16694: uses
16695:   Forms,
16696:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
16697:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
16698:   uColorFunctions in 'uColorFunctions.pas',
16699:   AMixer in 'AMixer.pas',
16700:   uSettings in 'uSettings.pas',
16701:   UWavein4 in 'UWavein4.pas',
16702:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
16703:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
16704:
16705:
16706: Functions_max hex in the box maxbox
16707: functionslist.txt
16708: FunctionsList1 3.9.9.86/88/91/92/94/95/96
16709:
16710: ****
16711: Procedure
16712: PROCEDURE SIZE 7507 7401 6792 6310 5971 4438 3797 3600
16713: Procedure *****Now the Procedure list*****
16714: Procedure ( ACol, ARow : Integer; Items : TStrings)
16715: Procedure ( Agg : TAggregate)
16716: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
16717: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
16718: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
16719: Procedure ( ASender : TObject; const ABytes : Integer)
16720: Procedure ( ASender : TObject; VStream : TStream)
16721: Procedure ( AThread : TIdThread)
16722: Procedure ( AWebModule : TComponent)
16723: Procedure ( Column : TColumn)
16724: Procedure ( const AUsername : String; const APASSWORD : String; AAAuthenticationResult : Boolean)
16725: Procedure ( const iStart : integer; const sText : string)
16726: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
16727: Procedure ( Database : TDatabase; LoginParams : TStrings)
16728: Procedure ( DataSet:TCustomClientDataSet;E:EReconcileError;UpdateKind:TUpdateKind;var
Action:TReconcileAction)
16729: Procedure ( DATASET : TDATASET)
16730: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
16731: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
16732: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
16733: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
16734: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
16735: Procedure ( Done : Integer)
16736: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
16737: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
16738: Procedure
(HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState)
16739: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
16740: Procedure (HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
16741: Procedure (HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
16742: Procedure (Sender: TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
16743: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
16744: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
16745: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
16746: Procedure ( SENDER : TFIELD; const TEXT : String)
16747: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
16748: Procedure ( Sender : TIdTelnet; const Buffer : String)
16749: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
16750: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
16751: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
16752: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
16753: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
16754: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)

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16755: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
16756: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
16757: Procedure ( Sender : TObject; Button : TMPBtnType)
16758: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
16759: Procedure ( Sender : TObject; Button : TUDBtnType)
16760: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
16761: Procedure ( Sender : TObject; ClientSocket: TServerClientWinSocket; var SocketThread : TServerClientThread)
16762: Procedure ( Sender : TObject; Column : TListColumn)
16763: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
16764: Procedure ( Sender : TObject; Connecting : Boolean)
16765: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var
    DoneDraw:Bool
16766: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
16767: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
16768: Procedure ( Sender: TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
16769: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
16770: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
16771: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
16772: Procedure ( Sender : TObject; Index : LongInt)
16773: Procedure ( Sender : TObject; Item : TListItem)
16774: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
16775: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
16776: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
16777: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
16778: Procedure ( Sender : TObject; Item : TListItem; var S : string)
16779: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
16780: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
16781: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
16782: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
16783: Procedure ( Sender : TObject; Node : TTreenode)
16784: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
16785: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
16786: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
16787: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
16788: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
16789: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
16790: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
16791: Procedure ( Sender : TObject; Rect : TRect)
16792: Procedure ( Sender : TObject; Request : TWebResponse; Response : TWebResponse; var Handled : Boolean)
16793: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
16794: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
16795: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent : TErrorEvent; var ErrorCode : Integer)
16796: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
16797: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
16798: Procedure ( SENDER : TOBJECT; SOURCE : TMENUEITEM; REBUILD : BOOLEAN)
16799: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
16800: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
16801: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
16802: Procedure ( Sender : TObject; Thread : TServerClientThread)
16803: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
16804: Procedure ( Sender : TObject; Username, Password : string)
16805: Procedure ( Sender : TObject; var AllowChange : Boolean)
16806: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
16807: Procedure ( Sender : TObject; var Caption : string; var Alignment : THTMLCaptionAlignment)
16808: Procedure ( Sender : TObject; var Continue : Boolean)
16809: Procedure ( Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMethod:TIdHTTPMethod)
16810: Procedure ( Sender : TObject; var Username : string)
16811: Procedure ( Sender : TObject; Wnd : HWND)
16812: Procedure ( Sender : TToolbar; Button : TToolbutton)
16813: Procedure ( Sender : TToolbar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
16814: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
16815: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
16816: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolbutton)
16817: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
16818: Procedure ( StatusBar : TstatusBar; Panel : TStatusPanel; const Rect : TRect)
16819: Procedure ( var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
16820: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
16821: procedure (Sender: TObject)
16822: procedure (Sender: TObject; var Done: Boolean)
16823: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
16824: procedure _T(Name: tbtString; v: Variant);
16825: Procedure AbandonSignalHandler( RtlSigNum : Integer)
16826: Procedure Abort
16827: Procedure About1Click( Sender : TObject)
16828: Procedure Accept( Socket : TSocket)
16829: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
16830: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
16831: Procedure AESDecryptFile(const plaintext, ciphertext, password: string)
16832: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
16833: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
16834: Procedure Add( Addend1, Addend2 : TMyBigInt)
16835: Procedure ADD( const AKEY, AVALUE : VARIANT)
16836: Procedure Add( const Key : string; Value : Integer)
16837: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
16838: Procedure ADD( FIELD : TFIELD)
16839: Procedure ADD( ITEM : TMENUEITEM)
16840: Procedure ADD( POPUP : TPOPUPMENU)
16841: Procedure AddCharacters( xCharacters : TCharSet)
16842: Procedure AddDriver( const Name : string; List : TStrings)

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16843: Procedure AddImages( Value : TCustomImageList)
16844: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
16845: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
16846: Procedure AddLoader( Loader : TBitmapLoader)
16847: Procedure ADDPARAM( VALUE : TPARAM)
16848: Procedure AddPassword( const Password : string)
16849: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
16850: Procedure AddState( oState : TniRegularExpressionState)
16851: Procedure AddStrings( Strings : TStrings);
16852: procedure AddStrings(Strings: TStrings);
16853: Procedure AddStrings1( Strings : TWideStrings);
16854: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
16855: Procedure AddToRecentDocs( const Filename : string)
16856: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
16857: Procedure AllFunctionsList1Click( Sender : TObject)
16858: procedure AllObjectsList1Click(Sender: TObject);
16859: Procedure Allocate( AAllocateBytes : Integer)
16860: procedure AllResourceList1Click(Sender: TObject);
16861: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
16862: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
16863: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
16864: Procedure AnsiFree( var s : AnsiString)
16865: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
16866: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
16867: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
16868: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
16869: Procedure AntiFreeze;
16870: Procedure APPEND
16871: Procedure Append( const S : WideString)
16872: procedure Append(S: string);
16873: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
16874: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
16875: Procedure AppendChunk( Val : OleVariant)
16876: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
16877: Procedure AppendStr( var Dest : string; S : string)
16878: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALength : Integer)
16879: Procedure ApplyRange
16880: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
16881: Procedure Arrange( Code : TListArrangement)
16882: procedure Assert(expr : Boolean; const msg: string);
16883: procedure Assert2(expr : Boolean; const msg: string);
16884: Procedure Assign( AList : TCustomBucketList)
16885: Procedure Assign( Other : TObject)
16886: Procedure Assign( Source : TDragObject)
16887: Procedure Assign( Source : TPersistent)
16888: Procedure Assign(Source: TPersistent)
16889: procedure Assign2(mystring, mypath: string);
16890: Procedure AssignCurValues( Source : TDataSet);
16891: Procedure AssignCurValues1( const CurValues : Variant);
16892: Procedure ASSIGNFIELD( FIELD : TFIELD)
16893: Procedure ASSIGNFILEVALUE( FIELD : TFIELD; const VALUE : VARIANT)
16894: Procedure AssignFile(var F: Text; FileName: string)
16895: procedure AssignFile(var F: TextFile; FileName: string)
16896: procedure AssignFileRead(var mystring, myfilename: string);
16897: procedure AssignFileWrite(mystring, myfilename: string);
16898: Procedure AssignTo( Other : TObject)
16899: Procedure AssignValues( Value : TParameters)
16900: Procedure ASSIGNVALUES( VALUE : TPARAMS)
16901: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
16902: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
16903: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
16904: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
16905: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
16906: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
16907: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
16908: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
16909: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
16910: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
16911: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
16912: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
16913: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
16914: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
16915: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
16916: procedure Beep
16917: Procedure BeepOk
16918: Procedure BeepQuestion
16919: Procedure BeepHand
16920: Procedure BeepExclamation
16921: Procedure BeepAsterisk
16922: Procedure BeepInformation
16923: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
16924: Procedure BeginLayout
16925: Procedure BeginTimer( const Delay, Resolution : Cardinal)
16926: Procedure BeginUpdate
16927: procedure BeginUpdate;
16928: procedure BigScreen1Click(Sender: TObject);
16929: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
16930: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
16931: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);

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16932: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
16933: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
16934: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
16935: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
16936: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
16937: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
16938: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
16939: Procedure BreakPointMenuClick( Sender : TObject)
16940: procedure BRINGTOFRONT
16941: procedure BringToFront;
16942: Procedure btnBackClick( Sender : TObject)
16943: Procedure btnBrowseClick( Sender : TObject)
16944: Procedure BtnClick( Index : TNavigateBtn)
16945: Procedure btnLargeIconsClick( Sender : TObject)
16946: Procedure BuildAndSendRequest( AURI : TIdURI)
16947: Procedure BuildCache
16948: Procedure BurnMemory( var Buff, BuffLen : integer)
16949: Procedure BurnMemoryStream( Destructo : TMemoryStream)
16950: Procedure CalculateFirstSet
16951: Procedure Cancel
16952: procedure CancelDrag;
16953: Procedure CancelEdit
16954: procedure CANCELHINT
16955: Procedure CancelRange
16956: Procedure CancelUpdates
16957: Procedure CancelWriteBuffer
16958: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool;
16959: Procedure Capture2( ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
16960: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool
16961: procedure CaptureScreenFormat(vname: string; vextension: string);
16962: procedure CaptureScreenPNG(vname: string);
16963: procedure CardinalsToI64(var I : Int64; const LowPart, HighPart: Cardinal);
16964: procedure CASCADE
16965: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
16966: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);
16967: Procedure cbPathClick( Sender : TObject)
16968: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
16969: Procedure cedebugAfterExecute( Sender : TPSScript)
16970: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
16971: Procedure cedebugCompile( Sender : TPSScript)
16972: Procedure cedebugExecute( Sender : TPSScript)
16973: Procedure cedebugIdle( Sender : TObject)
16974: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
16975: Procedure CenterHeight( const pc, pcParent : TControl)
16976: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
16977: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
16978: Procedure Change
16979: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
16980: Procedure Changed
16981: Procedure ChangeDir( const ADirName : string)
16982: Procedure ChangeDirUp
16983: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
16984: Procedure ChangeLevelBy( Value : TChangeRange)
16985: Procedure ChDir( const s: string)
16986: Procedure Check(Status: Integer)
16987: Procedure CheckCommonControl( CC : Integer)
16988: Procedure CHECKFIELDNAME( const FIELDNAME : String)
16989: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
16990: Procedure CheckForDisconnect( const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
16991: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
16992: Procedure CheckToken( T : Char)
16993: procedure CheckToken(t:char)
16994: Procedure CheckTokenSymbol( const S : string)
16995: procedure CheckTokenSymbol(s:string)
16996: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
16997: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
16998: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
16999: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);
17000: procedure CipherFile1Click(Sender: TObject);
17001: Procedure Clear;
17002: Procedure Clear1Click( Sender : TObject)
17003: Procedure ClearColor( Color : TColor)
17004: Procedure CLEARITEM( AITEM : TMENUITEM)
17005: Procedure ClearMapping
17006: Procedure ClearSelection( KeepPrimary : Boolean)
17007: Procedure ClearWriteBuffer
17008: Procedure Click
17009: Procedure Close
17010: Procedure Close1Click( Sender : TObject)
17011: Procedure CloseDatabase( Database : TDatabase)
17012: Procedure CloseDataSets
17013: Procedure CloseDialog
17014: Procedure CloseFile(var F: Text);
17015: Procedure Closure
17016: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17017: Procedure CMYKTobgr1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17018: Procedure CodeCompletionList1Click( Sender : TObject)
17019: Procedure ColEnter
17020: Procedure Collapse

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17021: Procedure Collapse( Recurse : Boolean)
17022: Procedure ColorRGBToHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
17023: Procedure CommaSeparatedToStringList( AList : TStrings; const Value : string)
17024: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
17025: Procedure CompileClick( Sender : TObject)
17026: procedure ComponentCount1Click(Sender: TObject);
17027: Procedure Compress(azipfolder, azipfile: string)
17028: Procedure DeCompress(azipfolder, azipfile: string)
17029: Procedure XZip(azipfolder, azipfile: string)
17030: Procedure XUnZip(azipfolder, azipfile: string)
17031: Procedure Connect( const ATimeout : Integer)
17032: Procedure Connect( Socket : TSocket)
17033: procedure ConsoleClick(Sender: TObject);
17034: Procedure Continue
17035: Procedure ContinueCount( var Counter : TJclCounter)
17036: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
17037: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
17038: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
17039: Procedure ConvertImage(vsource, vdestination: string);
17040: // Ex. ConvertImage(Exepath+'my233.bmp',Exepath+'mypng111.png')
17041: Procedure ConvertBitmap(vsource, vdestination: string);
17042: Procedure ConvertToGray(Cnv: TCanvas);
17043: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
17044: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
17045: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
17046: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
17047: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
17048: Procedure CopyFrom( mbCopy : TMyBigInt)
17049: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)
17050: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
17051: Procedure CopyTidByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALength : Integer)
17052: Procedure CopyTidBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int)
17053: Procedure CopyTidCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer)
17054: Procedure CopyTidInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
17055: Procedure CopyTidIPv6Address(const ASource:TidIPv6Address; var VDest: TIdBytes; const ADestIndex : Integer)
17056: Procedure CopyTidLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
17057: Procedure CopyTidNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
17058: Procedure CopyTidNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
17059: Procedure CopyTidString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
17060: Procedure CopyTidWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
17061: Procedure CopyToClipboard
17062: Procedure CountParts
17063: Procedure CreateDataSet
17064: Procedure CreateEmptyFile( const FileName : string)
17065: Procedure CreateFileFromString( const FileName, Data : string)
17066: Procedure CreateFromDelta( Source : TPacketDataSet)
17067: procedure CREATEHANDLE
17068: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
17069: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
17070: Procedure CreateTable
17071: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
17072: procedure CSyntax1Click(Sender: TObject);
17073: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
17074: Procedure CURSORPOSCHANGED
17075: procedure CutFirstDirectory(var S: String)
17076: Procedure DataBaseError(const Message: string)
17077: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime)
17078: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
17079: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
17080: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
17081: Procedure DBIError(errorCode: Integer)
17082: Procedure DebugOutput( const AText : string)
17083: Procedure DebugRun1Click( Sender : TObject)
17084: procedure Dec;
17085: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
17086: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
17087: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
17088: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word)
17089: Procedure DecodeDateTime(const AValue:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
17090: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
17091: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
17092: Procedure DecodeTime( DateTime : TdateTime; var Hour, Min, Sec, MSec : Word)
17093: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
17094: Procedure DecompileClick( Sender : TObject)
17095: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
17096: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
17097: Procedure DeferLayout
17098: Procedure defFileRead
17099: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL; REMOVING:BOOLEAN)
17100: Procedure DelayMicroseconds( const MicroSeconds : Integer)
17101: Procedure Delete
17102: Procedure Delete( const AFilename : string)
17103: Procedure Delete( const Index : Integer)
17104: Procedure DELETE( INDEX : INTEGER)
17105: Procedure Delete( Index : LongInt)
17106: Procedure Delete( Node : TTreeNode)
17107: procedure Delete(var s: AnyString; ifrom, icount: Longint);

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17108: Procedure DeleteAlias( const Name : string)
17109: Procedure DeleteDriver( const Name : string)
17110: Procedure DeleteIndex( const Name : string)
17111: Procedure DeleteKey( const Section, Ident : String)
17112: Procedure DeleteRecords
17113: Procedure DeleteRecords( AffectRecords : TAffectRecords)
17114: Procedure DeleteString( var pStr : String; const pDelStr : string)
17115: Procedure DeleteTable
17116: procedure DelphiSite1Click(Sender: TObject);
17117: Procedure Deselect
17118: Procedure Deselect( Node : TTreeNode)
17119: procedure DestroyComponents
17120: Procedure DestroyHandle
17121: Procedure Diff( var X : array of Double)
17122: procedure Diff(var X: array of Double);
17123: procedure DISABLEALIGN
17124: Procedure DisableConstraints
17125: Procedure Disconnect
17126: Procedure Disconnect( Socket : TSocket)
17127: Procedure Dispose
17128: procedure Dispose(P: PChar)
17129: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
17130: Procedure DoKey( Key : TDBCtrlGridKey)
17131: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17132: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17133: Procedure Dormant
17134: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
17135: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
17136: Procedure DoubleToComp( Value : Double; var Result : Comp)
17137: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
17138: procedure Draw(X, Y: Integer; Graphic: TGraphic);
17139: Procedure Draw(Canvas:TCanvas; X,Y,
    Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
17140: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17141: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
17142: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17143: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
17144: procedure DrawFocusRect(const Rect: TRect);
17145: Procedure DrawHDIBToTBitmap( HDIB : THandle; Bitmap : TBitmap)
17146: Procedure DRAWMENUITEM( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17147: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
17148: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
    TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
17149: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
17150: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
17151: Procedure DropConnections
17152: Procedure DropDown
17153: Procedure DumpDescription( oStrings : TStrings)
17154: Procedure DumpStateTable( oStrings : TStrings)
17155: Procedure EDIT
17156: Procedure EditButtonClick
17157: Procedure EditFont1Click( Sender : TObject)
17158: procedure Ellipse(X1, Y1, X2, Y2: Integer);
17159: Procedure Ellipse1( const Rect : TRect);
17160: Procedure EMMS
17161: Procedure Encode( ADest : TStream)
17162: procedure ENDDRAG(DROP:BOOLEAN)
17163: Procedure EndEdit( Cancel : Boolean)
17164: Procedure EndTimer
17165: Procedure EndUpdate
17166: Procedure EraseSection( const Section : string)
17167: Procedure Error( const Ident : string)
17168: procedure Error(Ident:Integer)
17169: Procedure ErrorFmt( const Ident : string; const Args : array of const)
17170: Procedure ErrorStr( const Message : string)
17171: procedure ErrorStr(Message:String)
17172: Procedure Exchange( Index1, Index2 : Integer)
17173: procedure Exchange(Index1, Index2: Integer);
17174: Procedure Exec( FileName, Parameters, Directory : string)
17175: Procedure ExecProc
17176: Procedure ExecSQL( UpdateKind : TUpdateKind)
17177: Procedure Execute
17178: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
17179: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
17180: Procedure ExecuteCommand(executeFile, paramstring: string)
17181: Procedure ExecuteShell(executeFile, paramstring: string)
17182: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
17183: Procedure ExitThread(ExitCode: Integer); stdcall;
17184: Procedure ExitProcess(ExitCode: Integer); stdcall;
17185: Procedure Expand( AUserName : String; AResults : TStrings)
17186: Procedure Expand( Recurse : Boolean)
17187: Procedure ExportClipboard1Click( Sender : TObject)
17188: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
17189: Procedure ExtractContentFields( Strings : TStrings)
17190: Procedure ExtractCookiefields( Strings : TStrings)
17191: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
17192: Procedure ExtractHeaderFields(Separ,
    WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
17193: Procedure ExtractHTTPFields(Separators,WhiteSpace:
    TSysCharSet;Content:PChar;Strings:TStrings;StripQuots:Bool)

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17194: Procedure ExtractQueryFields( Strings : TStrings )
17195: Procedure FastDegToGrad
17196: Procedure FastDegToRad
17197: Procedure FastGradToDeg
17198: Procedure FastGradToRad
17199: Procedure FastRadToDeg
17200: Procedure FastRadToGrad
17201: Procedure FileClose( Handle : Integer )
17202: Procedure FileClose(handle: integer)
17203: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs,ShowDirs,Multitasking:Bool)
17204: Procedure FileStructure( AStructure : TIidFTPDataStructure )
17205: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
17206: Procedure FillBytes( var VBytes : TIddBytes; const ACount : Integer; const AValue : Byte )
17207: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte )
17208: Procedure FillChar2(var X: PChar ; count: integer; value: char)
17209: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
17210: Procedure FillIPList
17211: procedure FillRect(const Rect: TRect);
17212: Procedure FillTStrings( AStrings : TStrings )
17213: Procedure FilterOnBookmarks( Bookmarks : array of const )
17214: procedure FinalizePackage(Module: HMODULE)
17215: procedure FindClose;
17216: procedure FindClose2(var F: TSearchRec)
17217: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent );
17218: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent );
17219: Procedure FindNearest( const KeyValues : array of const )
17220: Procedure FinishContext
17221: Procedure FIRST
17222: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float )
17223: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int );
17224: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle )
17225: Procedure FlushSchemaCache( const TableName : string )
17226: procedure FmtStr( var Result : string; const Format: string; const Args: array of const )
17227: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
17228: Procedure Form1Close( Sender : TObject; var Action : TCloseAction )
17229: Procedure FormActivate( Sender : TObject )
17230: procedure FormatIn(const format: String; const args: array of const); //alias
17231: Procedure FormClose( Sender : TObject; var Action : TCloseAction )
17232: Procedure FormCreate( Sender : TObject )
17233: Procedure FormDestroy( Sender : TObject )
17234: Procedure FormKeyPress( Sender : TObject; var Key : Char )
17235: procedure FormOutput1Click(Sender: TObject);
17236: Procedure FormToHTML( Form : TForm; Path : string )
17237: procedure FrameRect(const Rect: TRect);
17238: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
17239: Procedure NotebookHandlesNeeded( Notebook : TNotebook )
17240: Procedure Free( Buffer : TRecordBuffer )
17241: Procedure Free( Buffer : TValueBuffer )
17242: Procedure Free;
17243: Procedure FreeAndNil(var Obj:TObject)
17244: Procedure FreeImage
17245: procedure FreeMem(P: PChar; Size: Integer)
17246: Procedure FreeTreeData( Tree : TUpdateTree )
17247: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer )
17248: Procedure FullCollapse
17249: Procedure FullExpand
17250: Procedure GenerateDPB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
17251: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
17252: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML )
17253: Procedure Get1( AURL : string; const AResponseContent : TStream );
17254: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean );
17255: Procedure Get2(const ASourceFile,AdestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
17256: Procedure GetAliasNames( List : TStrings )
17257: Procedure GetAliasesParams( const AliasName : string; List : TStrings )
17258: Procedure GetApplicationsRunning( Strings : TStrings )
17259: Procedure GetCommandTypes( List : TWideStrings )
17260: Procedure GetConfigParams( const Path, Section : string; List : TStrings )
17261: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean )
17262: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray )
17263: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray )
17264: Procedure GetDatabaseNames( List : TStrings )
17265: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant )
17266: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
17267: Procedure GetDir(d: byte; var s: string)
17268: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean )
17269: Procedure GetDriverNames( List : TStrings )
17270: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean )
17271: Procedure GetDriverParams( const DriverName : string; List : TStrings )
17272: Procedure GetEmails1Click( Sender : TObject )
17273: Procedure getEnvironmentInfo;
17274: Function getEnvironmentString: string;
17275: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings )
17276: Procedure GetFieldNames( const TableName : string; List : TStrings )
17277: Procedure GetFieldNames( const TableName : string; List : TStrings );
17278: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings );
17279: Procedure GETFIELDNAMES( LIST : TSTRINGS )
17280: Procedure GetFieldNames1( const TableName : string; List : TStrings );
17281: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings );
17282: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings );

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17283: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
17284: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
17285: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
17286: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
17287: Procedure GetFormatSettings
17288: Procedure GetFromDIB( var DIB : TBitmapInfo)
17289: Procedure GetFromHDIb( HDIB : HBitmap)
17290: Procedure GetIcon( Index : Integer; Image : TIcon)
17291: Procedure GetIcon1( Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
17292: Procedure GetIndexInfo( IndexName : string)
17293: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
17294: Procedure GetIndexNames( List : TStrings)
17295: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
17296: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
17297: Procedure GetIndexNames4( const TableName : string; List : TStrings);
17298: Procedure GetInternalResponse
17299: Procedure GETITEMNAMES( LIST : TSTRINGS)
17300: procedure GetMem(P: PChar; Size: Integer)
17301: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
17302: procedure GetPackageDescription(ModuleName: PChar): string
17303: Procedure GetPackageName( List : TStrings);
17304: Procedure GetPackageName1( List : TWideStrings);
17305: Procedure GetParamList( List : TList; const ParamNames : WideString)
17306: Procedure GetProcedureNames( List : TStrings);
17307: Procedure GetProcedureNames( List : TWideStrings);
17308: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
17309: Procedure GetProcedureNames1( List : TStrings);
17310: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
17311: Procedure GetProcedureNames3( List : TWideStrings);
17312: Procedure GetProcedureNames4( const PackageName : WideString; List : TWideStrings);
17313: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
17314: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
17315: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
17316: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : WideString; List : TList);
17317: Procedure GetProviderNames( Names : TWideStrings);
17318: Procedure GetProviderNames( Proc : TGetStrProc)
17319: Procedure GetProviderNames1( Names : TStrings);
17320: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; aPath: string);
17321: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;aPath:string); //no autoopen
image
17322: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const
Data:string;aformat:string):TLinearBitmap;
17323: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
17324: Procedure GetSchemaNames( List : TStrings);
17325: Procedure GetSchemaNames1( List : TWideStrings);
17326: Procedure getScriptandRunAsk;
17327: Procedure getScriptandRun(ascript: string);
17328: Procedure getScript(ascript: string); //alias
17329: Procedure getWebScript(ascript: string); //alias
17330: Procedure GetSessionNames( List : TStrings)
17331: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
17332: Procedure GetStrings( List : TStrings)
17333: Procedure GetSystemTime; stdcall;
17334: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions, SystemTables:Boolean;List:TStrings)
17335: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
17336: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17337: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
17338: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
17339: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
17340: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
17341: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
17342: Procedure GetVisibleWindows( List : TStrings)
17343: Procedure GoBegin
17344: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
17345: Procedure GotoCurrent( Table : TTable)
17346: procedure GotoEnd1Click(Sender: TObject);
17347: Procedure GotoNearest
17348: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const
Direction: TGradientDirection)
17349: Procedure HandleException( E : Exception; var Handled : Boolean)
17350: procedure HANDLEMESSAGE
17351: procedure HandleNeeded;
17352: Procedure Head( AURL : string)
17353: Procedure Help( var AHelpContents : TStringList; ACommand : String)
17354: Procedure HexToBinary( Stream : TStream)
17355: procedure HexToBinary(Stream:TStream)
17356: Procedure HideDragImage
17357: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
17358: Procedure HideTraybar
17359: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
17360: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
17361: Procedure HookOSExceptions
17362: Procedure HookSignal( RtlSigNum : Integer)
17363: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
17364: Procedure HTMLSyntax1Click( Sender : TObject)
17365: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
17366: Procedure IFPS3ClassesPlugin1ExecImport( Sender : TObject; Exec : TPSEExec; x : TPSRuntimeClassImporter)
17367: Procedure ImportfromClipboard1Click( Sender : TObject)
17368: Procedure ImportfromClipboard2Click( Sender : TObject)

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17369: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
17370: procedure Incb(var x: byte);
17371: Procedure Include1Click( Sender : TObject)
17372: Procedure IncludeOFF; //preprocessing
17373: Procedure IncludeON;
17374: procedure Info1Click(Sender: TObject);
17375: Procedure InitAltRecBuffers( CheckModified : Boolean)
17376: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
17377: Procedure InitContext( WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse )
17378: Procedure InitData( ASource : TDataSet)
17379: Procedure InitDelta( ADelta : TPacketDataSet);
17380: Procedure InitDelta1( const ADelta : OleVariant);
17381: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
17382: Procedure Initialize
17383: procedure InitializePackage(Module: HMODULE)
17384: Procedure INITIACTION
17385: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
17386: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
17387: Procedure InitModule( AModule : TComponent)
17388: Procedure InitStdConvs
17389: Procedure InitTreeData( Tree : TUpdateTree)
17390: Procedure INSERT
17391: Procedure Insert( Index : Integer; AClass : TClass)
17392: Procedure Insert( Index : Integer; AComponent : TComponent)
17393: Procedure Insert( Index : Integer; AObject : TObject)
17394: Procedure Insert( Index : Integer; const S : WideString)
17395: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
17396: Procedure Insert( Index: Integer; const S: string);
17397: procedure Insert(Index: Integer; S: string);
17398: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
17399: procedure InsertComponent(AComponent:TComponent)
17400: procedure InsertControl(AControl: TControl);
17401: Procedure InsertIcon( Index : Integer; Image : TIcon)
17402: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
17403: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
17404: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
17405: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
17406: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
17407: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
17408: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
17409: Procedure InternalBeforeResolve( Tree : TUpdateTree)
17410: Procedure InvalidateModuleCache
17411: Procedure InvalidateTitles
17412: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
17413: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
17414: Procedure InvalidDateTimeError(const AYear,AMth,Aday,AHour,AMin,ASec,AMilSec:Word;const
ABaseDate:TDateTime)
17415: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
17416: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
17417: procedure JavaSyntax1Click(Sender: TObject);
17418: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
17419: Procedure KillDataChannel
17420: Procedure Largefont1Click( Sender : TObject)
17421: Procedure LAST
17422: Procedure LaunchCpl( FileName : string)
17423: Procedure Launch( const AFile : string)
17424: Procedure LaunchFile( const AFile : string)
17425: Procedure LetFileList(FileList: TStringlist; apath: string);
17426: Procedure lineToNumber( xmemo : String; met : boolean)
17427: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
DefaultDraw:Bool)
17428: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
: TCustDrawState; var DefaultDraw : Boolean)
17429: Procedure ListViewData( Sender : TObject; Item : TListItem)
17430: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
: TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
17431: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
17432: Procedure ListViewDblClick( Sender : TObject)
17433: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
17434: Procedure ListDLEExports(const FileName: string; List: TStrings);
17435: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
17436: procedure LoadBytecode1Click(Sender: TObject);
17437: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
17438: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
17439: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
17440: Procedure LoadFromFile( AFileName : string)
17441: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
17442: Procedure LoadFromFile( const FileName : string)
17443: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
17444: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
17445: Procedure LoadFromFile( const FileName : WideString)
17446: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17447: Procedure LoadFromFile(const AFileName: string)
17448: procedure LoadFromFile(FileName: string);
17449: procedure LoadFromFile(FileName:String)
17450: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
17451: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
17452: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
17453: Procedure LoadFromStream( const Stream : TStream)

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17454: Procedure LoadFromStream( S : TStream)
17455: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17456: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17457: Procedure LoadFromStream( Stream : TStream)
17458: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOTYPE : TBLOTYPE )
17459: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
17460: procedure LoadFromStream(Stream: TStream);
17461: Procedure LoadFromStream( Stream : TSeekableStream; const FormatExt : string);
17462: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
17463: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
17464: Procedure LoadLastFileClick( Sender : TObject)
17465: { LoadIconToImage loads two icons from resource named NameRes,
17466:   into two image lists ALarge and ASmall}
17467: Procedure LoadIconToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
17468: Procedure LoadMemo
17469: Procedure LoadParamsFromIniFile( FFileName : WideString)
17470: Procedure Lock
17471: Procedure Login
17472: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
17473: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
17474: Procedure MakeCaseInsensitive
17475: Procedure MakeDeterministic( var bChanged : boolean)
17476: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
17477: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
17478: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
17479: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
17480: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
17481: Procedure SetRectComplexFormatStr( const S : string)
17482: Procedure SetPolarComplexFormatStr( const S : string)
17483: Procedure AddComplexSoundObjectToList(newf,newp,newa,newn:integer; freqlist: TStrings);
17484: Procedure MakeVisible
17485: Procedure MakeVisible( PartialOK : Boolean)
17486: Procedure ManualClick( Sender : TObject)
17487: Procedure MarkReachable
17488: Procedure maxBox; //shows the exe version data in a win box
17489: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
17490: Procedure Memo1Change( Sender : TObject)
17491: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var Action:TSynReplaceAction)
17492: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
17493: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
17494: procedure Memory1Click(Sender: TObject);
17495: Procedure MERGE( MENU : TMAINMENU)
17496: Procedure MergeChangeLog
17497: procedure MINIMIZE
17498: Procedure MinimizeMaxbox;
17499: Procedure MkDir(const s: string)
17500: Procedure mnuPrintFont1Click( Sender : TObject)
17501: procedure ModalStarted
17502: Procedure Modified
17503: Procedure ModifyAlias( Name : string; List : TStrings)
17504: Procedure ModifyDriver( Name : string; List : TStrings)
17505: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
17506: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
17507: Procedure Move( CurIndex, NewIndex : Integer)
17508: procedure Move(CurIndex, NewIndex: Integer);
17509: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
17510: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
17511: Procedure moveCube( o : TMyLabel)
17512: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
17513: procedure MoveTo(X, Y: Integer);
17514: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
17515: Procedure MovePoint(var x,y:Extended; const angle:Extended);
17516: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
17517: Procedure Multiplyl( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
17518: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK);
17519: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
17520: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
17521: procedure New(P: PChar)
17522: procedure New1Click(Sender: TObject);
17523: procedure NewInstanc1Click(Sender: TObject);
17524: Procedure NEXT
17525: Procedure NextMonth
17526: Procedure Noop
17527: Procedure NormalizePath( var APath : string)
17528: procedure ObjectBinaryToText(Input, Output: TStream)
17529: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17530: procedure ObjectResourceToText( Input, Output: TStream)
17531: procedure ObjectResourceToText1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17532: procedure ObjectTextToBinary( Input, Output: TStream)
17533: procedure ObjectTextToBinary1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17534: procedure ObjectTextToResource( Input, Output: TStream)
17535: procedure ObjectTextToResource1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17536: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
17537: Procedure Open( const UserID : WideString; const Password : WideString);
17538: Procedure Open;
17539: Procedure open1Click( Sender : TObject)
17540: Procedure OpenCdDrive
17541: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)

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17542: Procedure OpenCurrent
17543: Procedure OpenFile(vfilenamepath: string)
17544: Procedure OpenDirectory1Click( Sender : TObject )
17545: Procedure OpenIndexFile( const IndexName : string )
17546: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
  SchemaID:OleVariant;DataSet:TADODataSet)
17547: Procedure OpenWriteBuffer( const AThreshold : Integer )
17548: Procedure OptimizeMem
17549: Procedure Options1( AURL : string );
17550: Procedure OutputDebugString(lpOutputString : PChar)
17551: Procedure PackBuffer
17552: Procedure Paint
17553: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean )
17554: Procedure PaintToTBitmap( Target : TBitmap )
17555: Procedure PaletteChanged
17556: Procedure ParentBidiModeChanged
17557: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT )
17558: Procedure PasteFromClipboard;
17559: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer )
17560: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
17561: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
17562: Procedure PError( Text : string )
17563: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17564: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer/X4:Integer;Y4:Integer);
17565: Procedure Play(FromFrame, ToFrame : Word; Count : Integer)
17566: procedure playmp3(mpPath: string);
17567: Procedure PlayMP31Click( Sender : TObject )
17568: Procedure PointCopy( var Dest : TPoint; const Source : TPoint )
17569: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer )
17570: procedure PolyBezier(const Points: array of TPoint);
17571: procedure PolyBezierTo(const Points: array of TPoint);
17572: procedure Polygon(const Points: array of TPoint);
17573: procedure Polyline(const Points: array of TPoint);
17574: Procedure Pop
17575: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT)
17576: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float )
17577: Procedure POPUP( X, Y : INTEGER )
17578: Procedure PopupURL(URL : WideString);
17579: Procedure POST
17580: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream );
17581: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream );
17582: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream );
17583: Procedure PostUser( const Email, FirstName, LastName : WideString )
17584: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean );
17585: procedure Pred(X: int64);
17586: Procedure Prepare
17587: Procedure PrepareStatement
17588: Procedure PreProcessXML( AList : TStrings )
17589: Procedure PreventDestruction
17590: Procedure Print( const Caption : string )
17591: procedure PrintBitmap(aGraphic: TGraphic; Title: string );
17592: procedure printf(const format: String; const args: array of const );
17593: Procedure PrintList(Value: TStringList );
17594: Procedure PrintImage aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
17595: Procedure Printout1Click( Sender : TObject )
17596: Procedure ProcessHeaders
17597: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR )
17598: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean );
17599: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean );
17600: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean );
17601: Procedure ProcessMessagesOFF; //application.processmessages
17602: Procedure ProcessMessagesON;
17603: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
17604: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
17605: Procedure Prolist Size is: 3797 /1415
17606: Procedure procMessClick( Sender : TObject )
17607: Procedure PSScriptCompile( Sender : TPSScript )
17608: Procedure PSScriptExecute( Sender : TPSScript )
17609: Procedure PSScriptLine( Sender : TObject )
17610: Procedure Push( ABoundary : string )
17611: procedure PushItem(AItem: Pointer)
17612: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream );
17613: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean );
17614: procedure PutLinuxLines(const Value: string )
17615: Procedure Quit
17616: Procedure RaiseConversionError( const AText : string );
17617: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const );
17618: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string );
17619: procedure RaiseException(Ex: TIFEException; Param: string );
17620: Procedure RaiseExceptionForLastCmdResult;
17621: procedure RaiseLastException;
17622: procedure RaiseException2;
17623: Procedure RaiseLastOSError
17624: Procedure RaiseLastWin32;
17625: procedure RaiseLastWin32Error
17626: Procedure RaiseListError( const ATemplate : string; const AData : array of const )
17627: Procedure RandomFillStream( Stream : TMemoryStream )
17628: procedure randomize;
17629: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect )

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17630: Procedure RCS
17631: Procedure Read( Socket : TSocket )
17632: Procedure ReadBlobData
17633: procedure ReadBuffer(Buffer:String;Count:LongInt)
17634: procedure ReadOnly1Click(Sender: TObject);
17635: Procedure ReadSection( const Section : string; Strings : TStrings )
17636: Procedure ReadSections( Strings : TStrings )
17637: Procedure ReadSections( Strings : TString );
17638: Procedure ReadSections1( const Section : string; Strings : TString );
17639: Procedure ReadSectionValues( const Section : string; Strings : TString );
17640: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean )
17641: Procedure ReadStrings( ADest : TString; AReadLinesCount : Integer )
17642: Procedure ReadVersion2(aFileName: STRING; aVersion : TString );
17643: Function ReadVersion(aFileName: STRING; aVersion : TString): boolean;
17644: Procedure Realign;
17645: procedure Rectangle(X1, Y1, X2, Y2: Integer);
17646: Procedure Rectangle1( const Rect : TRect );
17647: Procedure RectCopy( var Dest : TRect; const Source : TRect );
17648: Procedure RectFitToScreen( var R : TRect );
17649: Procedure RectGrow( var R : TRect; const Delta : Integer )
17650: Procedure RectGrowX( var R : TRect; const Delta : Integer )
17651: Procedure RectGrowY( var R : TRect; const Delta : Integer )
17652: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer )
17653: Procedure RectMoveTo( var R : TRect; const X, Y : Integer )
17654: Procedure RectNormalize( var R : TRect )
17655: // TFileCallbackProcedure = procedure(filename:string);
17656: Procedure RecurseDirectory(Dir: String;IncludeSubs: boolean;callback: TFileCallbackProcedure );
17657: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean );
17658: Procedure RedirectTransition(ooldState:TniRegularExpressionState; oNewState : TniRegularExpressionState )
17659: Procedure Refresh;
17660: Procedure RefreshData( Options : TFetchOptions )
17661: Procedure REFRESHLOOKUPLIST
17662: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIAuthENTICATIONCLASS )
17663: Procedure RegisterChanges( Value : TChangeLink )
17664: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass )
17665: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass )
17666: Procedure RegisterfileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int )
17667: Procedure ReInitialize( ADelay : Cardinal )
17668: procedure RELEASE
17669: Procedure Remove( const AByteCount : integer )
17670: Procedure REMOVE( FIELD : TFIELD )
17671: Procedure REMOVE( ITEM : TMENUITEM )
17672: Procedure REMOVE( POPUP : TPOPUPMENU )
17673: Procedure RemoveAllPasswords
17674: procedure RemoveComponent(AComponent:TComponent )
17675: Procedure RemoveDir( const ADirName : string )
17676: Procedure RemoveLambdaTransitions( var bChanged : boolean )
17677: Procedure REMOVEPARAM( VALUE : TPARAM )
17678: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset );
17679: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState );
17680: Procedure Rename( const ASourceFile, ADestFile : string )
17681: Procedure Rename( const FileName : string; Reload : Boolean )
17682: Procedure RenameTable( const NewTableName : string )
17683: Procedure Replace( Index : Integer; Image, Mask : TBitmap )
17684: Procedure ReplaceClick( Sender : TObject )
17685: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime )
17686: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
17687: Procedure ReplaceIcon( Index : Integer; Image : TIcon )
17688: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor )
17689: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime )
17690: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
17691: Procedure Requery( Options : TExecuteOptions )
17692: Procedure Reset
17693: Procedure Reset1Click( Sender : TObject )
17694: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor )
17695: procedure ResourceExplore1Click(Sender: TObject);
17696: Procedure RestoreContents
17697: Procedure RestoreDefaults
17698: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string )
17699: Procedure RetrieveHeaders
17700: Procedure RevertRecord
17701: Procedure RGBAToBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal )
17702: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17703: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17704: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single );
17705: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single );
17706: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer )
17707: Procedure RleCompress2( Stream : TStream )
17708: Procedure RleDecompress2( Stream : TStream )
17709: Procedure RmDir(const S: string)
17710: Procedure Rollback
17711: Procedure Rollback( TransDesc : TTransactionDesc )
17712: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction )
17713: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction )
17714: Procedure RollbackTrans
17715: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer );
17716: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean )
17717: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean )
17718: Procedure RunDll32Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer )

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17719: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
17720: Procedure S_EBox( const AText : string)
17721: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int)
17722: Procedure S_IBox( const AText : string)
17723: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
17724: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
17725: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
17726: Procedure SampleVarianceAndMean
17727: ( const X : TDynFloatArray; var Variance, Mean : Float)
17728: Procedure Save2Click( Sender : TObject)
17729: Procedure Saveas3Click( Sender : TObject)
17730: Procedure Savebefore1Click( Sender : TObject)
17731: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
17732: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
17733: Procedure SaveConfigFile
17734: Procedure SaveOutput1Click( Sender : TObject)
17735: procedure SaveScreenshotClick(Sender: TObject);
17736: Procedure SaveLn(pathname, content: string); //Saveln(exepath+'mysavelntest.txt', memo2.text);
17737: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
17738: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
17739: Procedure SaveToFile( AFileName : string)
17740: Procedure SAVETOFILE( const FILENAME : String)
17741: Procedure SaveToFile( const FileName : WideString)
17742: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
17743: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17744: procedure SaveToFile(FileName: string);
17745: procedure SaveToFile(FileName:String)
17746: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
17747: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17748: Procedure SaveToStream( S : TStream)
17749: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17750: Procedure SaveToStream( Stream : TStream)
17751: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
17752: procedure SaveToStream(Stream: TStream);
17753: procedure SaveToStream(Stream:TStream)
17754: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
17755: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
17756: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
17757: procedure Say(const sText: string)
17758: Procedure SBytecode1Click( Sender : TObject)
17759: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
17760: procedure ScriptExplorer1Click(Sender: TObject);
17761: Procedure Scroll( Distance : Integer)
17762: Procedure Scroll( DX, DY : Integer)
17763: procedure ScrollBy(DeltaX, DeltaY: Integer);
17764: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
17765: Procedure ScrollTabs( Delta : Integer)
17766: Procedure Search1Click( Sender : TObject)
17767: procedure SearchAndOpenDoc(vfilenamepath: string)
17768: procedure SearchAndOpenFile(vfilenamepath: string)
17769: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
17770: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
17771: Procedure SearchNext1Click( Sender : TObject)
17772: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
17773: Procedure Select1( const Nodes : array of TTreeNode);
17774: Procedure Select2( Nodes : TList);
17775: Procedure SelectNext( Direction : Boolean)
17776: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
17777: Procedure SelfTestPEM //unit uPSI_cPEM
17778: Procedure Send( AMsg : TIdMessage)
17779: //config forst in const MAILINIFILE = 'maildef.ini';
17780: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
17781: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17782: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17783: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
17784: Procedure SendMsg(AMsg : TIdMessage; const AHeadersOnly: Boolean = False)
17785: Procedure SendResponse
17786: Procedure SendStream( AStream : TStream)
17787: Procedure Set8087CW( NewCW : Word)
17788: Procedure SetAll( One, Two, Three, Four : Byte)
17789: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
17790: Procedure SetAppDispatcher( const AD Dispatcher : TComponent)
17791: procedure SetArrayLength;
17792: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
17793: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
17794: Procedure SetAsHandle( Format : Word; Value : THandle)
17795: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
17796: procedure SetCaptureControl(Control: TControl);
17797: Procedure SetColumnAttributes
17798: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
17799: Procedure SetCustomHeader( const Name, Value : string)
17800: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const FieldName:Widestring)
17801: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd)
17802: Procedure SetFocus
17803: procedure SetFocus; virtual;
17804: Procedure SetInitialState
17805: Procedure SetKey

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17806: procedure SetLastError(ErrorCode: Integer)
17807: procedure SetLength;
17808: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
17809: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
17810: Procedure SetParams( ADataset : TDataset; UpdateKind : TUpdateKind);
17811: procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
17812: Procedure SetParams1( UpdateKind : TUpdateKind);
17813: Procedure SetPassword( const Password : string)
17814: Procedure SetPointer( Ptr : Pointer; Size : Longint)
17815: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
17816: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
17817: Procedure SetProvider( Provider : TComponent)
17818: Procedure SetProxy( const Proxy : string)
17819: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
17820: Procedure SetRange( const StartValues, EndValues : array of const)
17821: Procedure SetRangeEnd
17822: Procedure SetRate( const aPercent, aYear : integer)
17823: procedure SetRate(const aPercent, aYear: integer)
17824: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
17825: Procedure SetsafeCallExceptionMsg( Msg : String)
17826: procedure SETSELTEXTBUF(BUFFER:PCHAR)
17827: Procedure SetSize( AWidth, AHeight : Integer)
17828: procedure SetSize(NewSize:LongInt)
17829: procedure SetString(var s: string; buffer: PChar; len: Integer)
17830: Procedure SetStrings( List : TStrings)
17831: Procedure SetText( Text : PwideChar)
17832: procedure SetText(Text: PChar);
17833: Procedure SetTextBuf( Buffer : PChar)
17834: procedure SETTEXTBUF(BUFFER:PCHAR)
17835: Procedure SetTick( Value : Integer)
17836: Procedure SetTimeout( ATimeOut : Integer)
17837: Procedure SetTraceEvent( Event : TDBXTraceEvent)
17838: Procedure SetUserName( const UserName : string)
17839: Procedure SetWallpaper( Path : string);
17840: procedure ShellStyle1Click(Sender: TObject);
17841: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
17842: Procedure ShowFileProperties( const FileName : string)
17843: Procedure ShowInclude1Click( Sender : TObject)
17844: Procedure ShowInterfaces1Click( Sender : TObject)
17845: Procedure ShowLastException1Click( Sender : TObject)
17846: Procedure ShowMessage( const Msg : string)
17847: Procedure ShowMessageBig(const aText : string);
17848: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
17849: Procedure ShowMessageBig3(const aText : string; fsize: byte; aaautosize: boolean);
17850: Procedure MsgBig(const aText : string); //alias
17851: procedure showmessage(mytext: string);
17852: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
17853: procedure ShowMessageFmt(const Msg: string; Params: array of const))
17854: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
17855: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
17856: Procedure ShowSearchDialog( const Directory : string)
17857: Procedure ShowSpecChars1Click( Sender : TObject)
17858: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
17859: Procedure ShredFile( const FileName : string; Times : Integer)
17860: procedure Shuffle(vQ: TStringList);
17861: Procedure ShuffleList( var List : array of Integer; Count : Integer)
17862: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
17863: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
17864: Procedure SinCosE( X : Extended; out Sin, Cos : Extended)
17865: Procedure Site( const ACommand : string)
17866: Procedure SkipEOL
17867: Procedure Sleep( ATime : cardinal)
17868: Procedure Sleep( milliseconds : Cardinal)
17869: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
17870: Procedure Slinenumbers1Click( Sender : TObject)
17871: Procedure Sort
17872: Procedure SortColorArray(ColorArray:TColorArray;l,R:Int;SortType:TColorArraySortType;Reverse:Bool)
17873: procedure Speak(const sText: string) //async like voice
17874: procedure Speak2(const sText: string) //sync
17875: procedure Split(Str: string; SubStr: string; List: TStrings);
17876: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
17877: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)
17878: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
17879: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings)
17880: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
17881: procedure SQLSyntax1Click(Sender: TObject);
17882: Procedure SRand( Seed : RNG_IntType)
17883: Procedure Start
17884: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
17885: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
17886: Procedure StartTransaction( TransDesc : TTransactionDesc)
17887: Procedure Status( var AStatusList : TStringList)
17888: Procedure StatusBar1DblClick( Sender : TObject)
17889: Procedure StepIntolClick( Sender : TObject)
17890: Procedure StepIt
17891: Procedure StepOut1Click( Sender : TObject)
17892: Procedure Stop
17893: procedure stopmp3;
17894: procedure StartWeb(aurl: string);

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17895: Procedure Str(aInt: integer; aStr: string); //of system
17896: Procedure StrDispose( Str : PChar)
17897: procedure StrDispose(Str: PChar)
17898: Procedure StrReplace(var Str: String; Old, New: String);
17899: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
17900: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
17901: Procedure StringToBytes( Value : String; Bytes : array of byte)
17902: procedure StrSet(c : Char; I : Integer; var s : String);
17903: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
17904: Procedure StructureMount( APath : String)
17905: procedure STYLECHANGED(SENDER:TObject)
17906: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
17907: procedure Succ(X: int64);
17908: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
17909: procedure SwapChar(var X,Y: char); //swapX follows
17910: Procedure SwapFloats( var X, Y : Float)
17911: procedure SwapGrid(grd: TStringGrid);
17912: Procedure SwapOrd( var I, J : Byte);
17913: Procedure SwapOrd( var X, Y : Integer)
17914: Procedure SwapOrd1( var I, J : Shortint);
17915: Procedure SwapOrd2( var I, J : Smallint);
17916: Procedure SwapOrd3( var I, J : Word);
17917: Procedure SwapOrd4( var I, J : Integer);
17918: Procedure SwapOrd5( var I, J : Cardinal);
17919: Procedure SwapOrd6( var I, J : Int64);
17920: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
17921: Procedure Synchronize( Method : TMethod);
17922: procedure SyntaxCheck1Click(Sender: TObject);
17923: Procedure SysFreeString(const S: WideString); stdcall;
17924: Procedure TakeOver( Other : TLinearBitmap)
17925: Procedure TalkIn(const sText: string) //async voice
17926: procedure tbtn6resClick(Sender: TObject);
17927: Procedure tbtnUseCaseClick( Sender : TObject);
17928: procedure TerminalStyle1Click(Sender: TObject);
17929: Procedure Terminate
17930: Procedure texSyntax1Click( Sender : TObject)
17931: procedure TextOut(X, Y: Integer; Text: string);
17932: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
17933: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
17934: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
17935: Procedure TextStart
17936: procedure TILE
17937: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
17938: Procedure TitleClick( Column : TColumn)
17939: Procedure ToDo
17940: procedure toolbtnTutorialClick(Sender: TObject);
17941: Procedure Trace1( AURL : string; const AResponseContent : TStream);
17942: Procedure TransferMode( ATransferMode : TIidFTPTTransferMode)
17943: Procedure Truncate
17944: procedure Tutorial101Click(Sender: TObject);
17945: procedure Tutorial10Statistics1Click(Sender: TObject);
17946: procedure Tutorial11Forms1Click(Sender: TObject);
17947: procedure Tutorial12SQL1Click(Sender: TObject);
17948: Procedure tutorial1Click( Sender : TObject)
17949: Procedure tutorial21Click( Sender : TObject)
17950: Procedure tutorial31Click( Sender : TObject)
17951: Procedure tutorial4Click( Sender : TObject)
17952: Procedure Tutorial5Click( Sender : TObject)
17953: procedure Tutorial6Click(Sender: TObject);
17954: procedure Tutorial91Click(Sender: TObject);
17955: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
17956: procedure UniqueString(var str: AnsiString)
17957: procedure UploadLoadPackage(Module: HMODULE)
17958: Procedure Unlock
17959: Procedure UNMERGE( MENU : TMAINMENU)
17960: Procedure UnRegisterChanges( Value : TChangeLink)
17961: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
17962: Procedure UnregisterConversionType( const AType : TConvType)
17963: Procedure UnRegisterProvider( Prov : TCustomProvider)
17964: Procedure UPDATE
17965: Procedure UpdateBatch( AffectRecords : TAffectRecords)
17966: Procedure UPDATECURSORPOS
17967: Procedure UpdateFile
17968: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
17969: Procedure UpdateResponse( AResponse : TWebResponse)
17970: Procedure UpdateScrollBar
17971: Procedure UpdateView1Click( Sender : TObject)
17972: procedure Val(const s: string; var n, z: Integer)
17973: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
17974: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
17975: Procedure VariantAdd( const src : Variant; var dst : Variant)
17976: Procedure VariantAnd( const src : Variant; var dst : Variant)
17977: Procedure VariantArrayRedim( var V : Variant; High : Integer)
17978: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
17979: Procedure VariantClear( var V : Variant)
17980: Procedure VariantCpy( const src : Variant; var dst : Variant)
17981: Procedure VariantDiv( const src : Variant; var dst : Variant)
17982: Procedure VariantMod( const src : Variant; var dst : Variant)
17983: Procedure VariantMul( const src : Variant; var dst : Variant)

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17984: Procedure VariantOr( const src : Variant; var dst : Variant)
17985: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
17986: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
17987: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
17988: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
17989: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
17990: Procedure VariantShl( const src : Variant; var dst : Variant)
17991: Procedure VariantShr( const src : Variant; var dst : Variant)
17992: Procedure VariantSub( const src : Variant; var dst : Variant)
17993: Procedure VariantXor( const src : Variant; var dst : Variant)
17994: Procedure VarCastError;
17995: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
17996: Procedure VarInvalidOp;
17997: Procedure VarInvalidNullOp;
17998: Procedure VarOverflowError( const ASourceType, ADestType : TVarType);
17999: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType);
18000: Procedure VarArrayCreateError;
18001: Procedure VarResultCheck( AResult : HRESULT);
18002: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
18003: Procedure HandleConversionException( const ASourceType, ADestType : TVarType);
18004: Function VarTypeAsText( const AType : TVarType) : string;
18005: procedure Voice(const sText: string) //async
18006: procedure Voice2(const sText: string) //sync
18007: Procedure WaitMilliseconds( AMSec : word)
18008: Procedure WideAppend( var dst : WideString; const src : WideString)
18009: Procedure WideAssign( var dst : WideString; var src : WideString)
18010: Procedure WideDelete( var dst : WideString; index, count : Integer)
18011: Procedure WideFree( var s : WideString)
18012: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
18013: Procedure WideFromPChar( var dst : WideString; src : PChar)
18014: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
18015: Procedure WideSetLength( var dst : WideString; len : Integer)
18016: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
18017: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
18018: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
18019: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18020: Procedure HttpGet(const Url: string; Stream:TStream);
18021: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIddBytes; Index : integer)
18022: Procedure WordWrap1Click( Sender : TObject)
18023: Procedure Write( const AOut : string)
18024: Procedure Write( Socket : TSocket)
18025: procedure Write(S: string);
18026: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
18027: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
18028: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
18029: procedure WriteBuffer(Buffer:String;Count:LongInt)
18030: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
18031: Procedure WriteChar( AValue : Char)
18032: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
18033: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
18034: Procedure WriteFloat( const Section, Name : string; Value : Double)
18035: Procedure WriteHeader( AHeader : TStrings)
18036: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
18037: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
18038: Procedure WriteLn( const AOut : string)
18039: procedure Writeln(s: string);
18040: Procedure WriteLog( const FileName, LogLine : string)
18041: Procedure WriteRFCReply( AReply : TIidRFCReply)
18042: Procedure WriteRFCStrings( AStrings : TStrings)
18043: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
18044: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASIZE:Int)
18045: Procedure WriteString( const Section, Ident, Value : String)
18046: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
18047: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
18048: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
18049: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18050: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18051: procedure WStrSet(c: AnyString; I : Integer; var s : AnyString);
18052: procedure XMLSyntax1Click(Sender: TObject);
18053: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
18054: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
18055: Procedure ZeroFillStream( Stream : TMemoryStream)
18056: procedure XMLSyntax1Click(Sender: TObject);
18057: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
18058: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
18059: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
18060: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
18061: procedure(Sender, Source: TObject; X, Y: Integer)
18062: procedure(Sender, Target: TObject; X, Y: Integer)
18063: procedure(Sender: TObject; ASection, AWidth: Integer)
18064: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
18065: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
18066: procedure(Sender: TObject; var Action: TCloseAction)
18067: procedure(Sender: TObject; var CanClose: Boolean)
18068: procedure(Sender: TObject; var Key: Char);
18069: ProcedureName ProcedureNames ProcedureParametersCursor @
18070:
18071: *****Now Constructors constructor *****
18072: Size is: 1248 1115 996 628 550 544 501 459 (381)

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18073: Attach( VersionInfoData : Pointer; Size : Integer)
18074: constructor Create( ABuckets : TBucketListSizes)
18075: Create( ACallBackWnd : HWnd)
18076: Create( AClient : TCustomTaskDialog)
18077: Create( AClient : TIdTelnet)
18078: Create( ACollection : TCollection)
18079: Create( ACollection : TFavoriteLinkItems)
18080: Create( ACollection : TTaskDialogButtons)
18081: Create( AConnection : TIdCustomHTTP)
18082: Create( ACreatoSuspended : Boolean)
18083: Create( ADataSet : TCustomSQLDataSet)
18084: CREATE( ADATASET : TDATASET)
18085: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
18086: Create( AGrid : TCustomDBGrid)
18087: Create( AGrid : TStringGrid; AIndex : Longint)
18088: Create( AHTTP : TIdCustomHTTP)
18089: Create( AListItems : TListItems)
18090: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
18091: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
18092: Create( AOwner : TCommonCalendar)
18093: Create( AOwner : TComponent)
18094: CREATE( AOWNER : TCOMPONENT)
18095: Create( AOwner : TCustomListView)
18096: Create( AOwner : TCustomOutline)
18097: Create( AOwner : TCustomRichEdit)
18098: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
18099: Create( AOwner : TCustomTreeView)
18100: Create( AOwner : TIdUserManager)
18101: Create( AOwner : TListItems)
18102: Create(AOwner:TObject;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvent:TBDECallbckEvent;Chain:Bool)
18103: CREATE( AOWNER : TPERSISTENT)
18104: Create( AOwner : TPersistent)
18105: Create( AOwner : TTable)
18106: Create( AOwner : TTreeNodes)
18107: Create( AOwner : TWinControl; const ClassName : string)
18108: Create( AParent : TIdCustomHTTP)
18109: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
18110: Create( AProvider : TBaseProvider)
18111: Create( AProvider : TCustomProvider);
18112: Create( AProvider : TDataSetProvider)
18113: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
18114: Create( ASocket : TSocket)
18115: Create( AStrings : TWideStrings)
18116: Create( AToolBar : TToolBar)
18117: Create( ATreeNodes : TTreeNodes)
18118: Create( Autofill : boolean)
18119: Create( AWebPageInfo : TAbstractWebPageInfo)
18120: Create( AWebRequest : TWebRequest)
18121: Create( Collection : TCollection)
18122: Create( Collection : TIdMessageParts; ABody : TStrings)
18123: Create( Collection : TIdMessageParts; const AFileName : TFileName)
18124: Create( Column : TColumn)
18125: Create( const AConvFamily : TConvFamily; const ADescription : string)
18126: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
18127: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc)
18128: Create( const AInitialState : Boolean; const AManualReset : Boolean)
18129: Create( const ATabSet : TTabSet)
18130: Create( const Compensate : Boolean)
18131: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
18132: Create( const FileName : string)
18133: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes);
18134: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
18135: Create( const MaskValue : string)
18136: Create( const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
18137: Create( const Prefix : string)
18138: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
18139: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18140: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18141: Create( CoolBar : TCoolbar)
18142: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
18143: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
18144: Create( DataSet : TDataSet; const
  Text:WideString;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : WideString;
  DepFields : TBits; FieldMap : TFieldMap)
18145: Create( DBCtrlGrid : TDBCtrlGrid)
18146: Create( DSTableProducer : TDSTableProducer)
18147: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
18148: Create( ErrorCode : DBIResult)
18149: Create( Field : TBlobField; Mode : TBlobStreamMode)
18150: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
18151: Create( HeaderControl : TCustomHeaderControl)
18152: Create( HTTPRequest : TWebRequest)
18153: Create( iStart : integer; sText : string)
18154: Create( iValue : Integer)
18155: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
18156: Create( MciErrNo : MCIERROr; const Msg : string)

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18157: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
18158: Create( Message : string; ErrorCode : DBResult)
18159: Create( Msg : string)
18160: Create( NativeError, Context : string; ErrorCode, PrevError : Integer; E : Exception)
18161: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
18162: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
18163: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
18164: Create(oSource:TniRegularExpressionState;oDestination:TniRegularExpression;xCharacts:TCharSet;bLambda:bool)
18165: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
18166: Create( Owner : TCustomComboBoxEx)
18167: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS)
18168: Create( Owner : TPersistent)
18169: Create( Params : TStrings)
18170: Create( Size : Cardinal)
18171: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
18172: Create( StatusBar : TCustomStatusBar)
18173: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
18174: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
18175: Create(AHandle:Integer)
18176: Create(AOwner: TComponent); virtual;
18177: Create(const AURI : string)
18178: Create(FileName:String;Mode:Word)
18179: Create(Instance:THandle;ResName:String;ResType:PChar)
18180: Create(Stream : TStream)
18181: Create(ADataset : TDataset);
18182: Create( const FileHandle:THandle; const Name:string; Protect:Cardinal; const MaximumSize:Int64; const SecAttr:PSecurityAttributes);
18183: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
18184: Create2( Other : TObject);
18185: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
18186: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
18187: CreateFmt( MciErrNo : MCIEERROR; const Msg : string; const Args : array of const)
18188: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
18189: CreateLinked( DBCtrlGrid : TDBCctrlGrid)
18190: CREATE(OWNER:TCOMPONENT; Dummy: Integer)
18191: CreateRes( Ident : Integer);
18192: CreateRes( MciErrNo : MCIEERROR; Ident : Integer)
18193: CreateRes( ResStringRec : PResStringRec);
18194: CreateResHelp( Ident : Integer; AHelpContext : Integer);
18195: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
18196: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
18197: CreateSize( AWidth, AHeight : Integer)
18198: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
18199:
18200: -----
18201: unit UPSI_MathMax;
18202: -----
18203: CONSTS
18204: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
18205: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
18206: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
18207: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
18208: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
18209: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
18210: Catalan: Float = 0.919655941772190150546035149324; // Catalan constant
18211: PiJ: Float = 3.1415926535897932384626433832795; // PI
18212: PI: Extended = 3.1415926535897932384626433832795;
18213: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
18214: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
18215: PiOn4: Float = 0.78539816339744830961566084581985; // PI / 4
18216: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
18217: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
18218: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
18219: Sqrt10: Float = 3.162277660168379331998893544327; // Sqrt(10)
18220: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(PI)
18221: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
18222: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
18223: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
18224: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
18225: Ln10: Float = 2.302580929940456840179914546844; // Ln(10)
18226: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
18227: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
18228: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
18229: LogPi: Float = 0.49714987269413385435126828882909; // Log10(PI)
18230: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
18231: E: Float = 2.7182818284590452353602874713527; // Natural constant
18232: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
18233: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
18234: TwoToPower63: Float = 9223372036854775808.0; // 2^63
18235: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
18236: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
18237: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
18238: StDelta : Extended = 0.00001; {delta for difference equations}
18239: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
18240: StMaxIterations : Integer = 100; {max attempts for convergence}
18241:
18242: procedure SIRegister_StdConvs(CL: TPPascalCompiler);
18243: begin
18244:   MetersPerInch = 0.0254; // [1]

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18245: MetersPerFoot = MetersPerInch * 12;
18246: MetersPerYard = MetersPerFoot * 3;
18247: MetersPerMile = MetersPerFoot * 5280;
18248: MetersPerNauticalMiles = 1852;
18249: MetersPerAstronomicalUnit = 1.49598E11; // [4]
18250: MetersPerLightSecond = 2.99792458E8; // [5]
18251: MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
18252: MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
18253: MetersPerCubit = 0.4572; // [6][7]
18254: MetersPerFathom = MetersPerFoot * 6;
18255: MetersPerFurlong = MetersPerYard * 220;
18256: MetersPerHand = MetersPerInch * 4;
18257: MetersPerPace = MetersPerInch * 30;
18258: MetersPerRod = MetersPerFoot * 16.5;
18259: MetersPerChain = MetersPerRod * 4;
18260: MetersPerLink = MetersPerChain / 100;
18261: MetersPerPoint = MetersPerInch * 0.013837; // [7]
18262: MetersPerPica = MetersPerPoint * 12;
18263:
18264: SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
18265: SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
18266: SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
18267: SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
18268: SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
18269: SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
18270:
18271: CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
18272: CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
18273: CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
18274: CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
18275: CubicMetersPerAcresFoot = SquareMetersPerAcre * MetersPerFoot;
18276: CubicMetersPerAcresInch = SquareMetersPerAcre * MetersPerInch;
18277: CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
18278: CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
18279:
18280: CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
18281: CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
18282: CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
18283: CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
18284: CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
18285: CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
18286: CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
18287: CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
18288:
18289: CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
18290: CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
18291: CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
18292: CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
18293: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
18294: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
18295:
18296: CubicMetersPerUKGallon = 0.00454609; // [2][7]
18297: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
18298: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
18299: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
18300: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
18301: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
18302: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
18303: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
18304: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
18305:
18306: GramsPerPound = 453.59237; // [1][7]
18307: GramsPerDrams = GramsPerPound / 256;
18308: GramsPerGrains = GramsPerPound / 7000;
18309: GramsPerTons = GramsPerPound * 2000;
18310: GramsPerLongTons = GramsPerPound * 2240;
18311: GramsPerOunces = GramsPerPound / 16;
18312: GramsPerStones = GramsPerPound * 14;
18313:
18314: MaxAngle 9223372036854775808.0;
18315: MaxTanH 5678.2617031470719747459655389854);
18316: MaxFactorial( 1754);
18317: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
18318: MinFloatingPoint(,(3.3621031431120935062626778173218E-4932);
18319: MaxTanH( 354.89135644669199842162284618659);
18320: MaxFactorial'LongInt'( 170);
18321: MaxFloatingPointD(1.797693134862315907729305190789E+308);
18322: MinFloatingPointD(2.2250738585072013830902327173324E-308);
18323: MaxTanH( 44.361419555836499802702855773323);
18324: MaxFactorial'LongInt'( 33);
18325: MaxFloatingPoints( 3.4028236692093846346337460743177E+38);
18326: MinFloatingPoints( 1.1754943508222875079687365372222E-38);
18327: PiExt( 3.1415926535897932384626433832795);
18328: RatioDegToRad( PiExt / 180.0);
18329: RatioGradToRad( PiExt / 200.0);
18330: RatioDegToGrad( 200.0 / 180.0);
18331: RatioGradToDeg( 180.0 / 200.0);
18332: Crc16PolynomCCITT'LongWord $1021);
18333: Crc16PolynomIBM'LongWord $8005);

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18334: Crc16Bits'LongInt'( 16);
18335: Crc16Bytes'LongInt'( 2);
18336: Crc16HighBit'LongWord $8000);
18337: NotCrc16HighBit', 'LongWord $7FFF);
18338: Crc32PolynomIEEE', 'LongWord $04C11DB7);
18339: Crc32PolynomCastagnoli', 'LongWord $1EDC6F41);
18340: Crc32Koopman', 'LongWord $741B8CD7);
18341: Crc32Bits', 'LongInt'( 32);
18342: Crc32Bytes', 'LongInt'( 4);
18343: Crc32HighBit', 'LongWord $80000000);
18344: NotCrc32HighBit', 'LongWord $7FFFFFFF);
18345:
18346: MinByte      = Low(Byte);
18347: MaxByte      = High(Byte);
18348: MinWord      = Low(Word);
18349: MaxWord      = High(Word);
18350: MinShortInt  = Low(ShortInt);
18351: MaxShortInt  = High(ShortInt);
18352: MinSmallInt  = Low(SmallInt);
18353: MaxSmallInt  = High(SmallInt);
18354: MinLongWord   = LongWord(Low(LongWord));
18355: MaxLongWord   = LongWord(High(LongWord));
18356: MinLongInt   = LongInt(Low(LongInt));
18357: MaxLongInt   = LongInt(High(LongInt));
18358: MinInt64      = Int64(Low(Int64));
18359: MaxInt64      = Int64(High(Int64));
18360: MinInteger    = Integer(Low(Integer));
18361: MaxInteger    = Integer(High(Integer));
18362: MinCardinal   = Cardinal(Low(Cardinal));
18363: MaxCardinal   = Cardinal(High(Cardinal));
18364: MinNativeUInt = NativeUInt(Low(NativeUInt));
18365: MaxNativeUInt = NativeUInt(High(NativeUInt));
18366: MinNativeInt  = NativeInt(Low(NativeInt));
18367: MaxNativeInt  = NativeInt(High(NativeInt));
18368: Function CosH( const Z : Float) : Float;
18369: Function SinH( const Z : Float) : Float;
18370: Function TanH( const Z : Float) : Float;
18371:
18372:
18373: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
18374: InvLn2        = 1.44269504088896340736; { 1/Ln(2) }
18375: InvLn10       = 0.43429448190325182765; { 1/Ln(10) }
18376: TwoPi         = 6.28318530717958647693; { 2*Pi }
18377: PiDiv2        = 1.57079632679489661923; { Pi/2 }
18378: SqrtPi        = 1.77245385090551602730; { Sqrt(Pi) }
18379: Sqrt2Pi       = 2.50662827463100050242; { Sqrt(2*Pi) }
18380: InvSqrt2Pi    = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
18381: LnSqrt2Pi    = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
18382: Ln2PiDiv2    = 0.91893853320467274178; { Ln(2*Pi)/2 }
18383: Sqrt2          = 1.41421356237309504880; { Sqrt(2) }
18384: Sqrt2Div2    = 0.70710678118654752440; { Sqrt(2)/2 }
18385: Gold          = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
18386: CGold         = 0.38196601125010515179; { 2 - GOLD }
18387: MachEp        = 2.220446049250313E-16; { 2^(-52) }
18388: MaxNum        = 1.797693134862315E+308; { 2^1024 }
18389: MinNum        = 2.225073858507202E-308; { 2^(-1022) }
18390: MaxLog        = 709.7827128933840;
18391: MinLog        = -708.3964185322641;
18392: MaxFac        = 170;
18393: MaxGam        = 171.624376956302;
18394: MaxLgm        = 2.556348E+305;
18395: SingleCompareDelta = 1.0E-34;
18396: DoubleCompareDelta = 1.0E-280;
18397: {$IFDEF CLR}
18398: ExtendedCompareDelta = DoubleCompareDelta;
18399: {$ELSE}
18400: ExtendedCompareDelta = 1.0E-4400;
18401: {$ENDIF}
18402: Bytes1KB       = 1024;
18403: Bytes1MB       = 1024 * Bytes1KB;
18404: Bytes1GB       = 1024 * Bytes1MB;
18405: Bytes64KB      = 64 * Bytes1KB;
18406: Bytes64MB      = 64 * Bytes1MB;
18407: Bytes2GB       = 2 * LongWord(Bytes1GB);
18408:     clBlack32', $FF000000 );
18409:     clDimGray32', $FF3F3F3F );
18410:     clGray32', $FF7F7F7F );
18411:     clLightGray32', $FFBFBFBF );
18412:     clWhite32', $FFFFFF );
18413:     clMaroon32', $FF7F0000 );
18414:     clGreen32', $FF007F00 );
18415:     clOlive32', $FF7F7F00 );
18416:     clNavy32', $FF00007F );
18417:     clPurple32', $FF7F007F );
18418:     clTeal32', $FF007F7F );
18419:     clRed32', $FFFF0000 );
18420:     clLime32', $FF00FF00 );
18421:     clYellow32', $FFFFFF00 );
18422:     clBlue32', $FF0000FF );

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18423:    clFuchsia32', $FFFF00FF ));  
18424:    clAqua32', $FFF00FFFF ));  
18425:    clAliceBlue32', $FFF0F8FF ));  
18426:    clAntiqueWhite32', $FFFAEBD7 ));  
18427:    clAquamarine32', $FF7FFF7D4 ));  
18428:    clAzure32', $FFF0FFFF ));  
18429:    clBeige32', $FFF5F5DC ));  
18430:    clBisque32', $FFFFE4C4 ));  
18431:    clBlancheDalmond32', $FFFFEBED ));  
18432:    clBlueViolet32', $FF8A2BE2 ));  
18433:    clBrown32', $FFA52A2A ));  
18434:    clBurlyWood32', $FFDDEB887 ));  
18435:    clCadetblue32', $FF5F9EA0 ));  
18436:    clChartReuse32', $FF7FFF7F0 ));  
18437:    clChocolate32', $FFD2691E ));  
18438:    clCoral32', $FFFF7F50 ));  
18439:    clCornFlowerBlue32', $FF6495ED ));  
18440:    clCornSilk32', $FFFFF8DC ));  
18441:    clCrimson32', $FFDC143C ));  
18442:    clDarkBlue32', $FF00008B ));  
18443:    clDarkCyan32', $FF008B8B ));  
18444:    clDarkGoldenRod32', $FFB8860B ));  
18445:    clDarkGray32', $FFA9A9A9 ));  
18446:    clDarkGreen32', $FF006400 ));  
18447:    clDarkGrey32', $FFA9A9A9 ));  
18448:    clDarkKhaki32', $FFBDB76B ));  
18449:    clDarkMagenta32', $FF8B008B ));  
18450:    clDarkOliveGreen32', $FF556B2F ));  
18451:    clDarkOrange32', $FFFFF8C00 ));  
18452:    clDarkOrchid32', $FF9932CC ));  
18453:    clDarkRed32', $FF8B0000 ));  
18454:    clDarkSalmon32', $FFE9967A ));  
18455:    clDarkSeaGreen32', $FF8FBBC8F ));  
18456:    clDarkSlateBlue32', $FF483D8B ));  
18457:    clDarkSlateGray32', $FF2F4F4F ));  
18458:    clDarkSlateGrey32', $FF2F4F4F ));  
18459:    clDarkTurquoise32', $FF00CED1 ));  
18460:    clDarkViolet32', $FF9400D3 ));  
18461:    clDeepPink32', $FFFF1493 ));  
18462:    clDeepSkyBlue32', $FF00BFFF ));  
18463:    clDodgerBlue32', $FF1E90FF ));  
18464:    clFireBrick32', $FFB22222 ));  
18465:    clFloralWhite32', $FFFFFFAF0 ));  
18466:    clGainsboro32', $FFDCDCDC ));  
18467:    clGhostWhite32', $FF8F8FFF ));  
18468:    clGold32', $FFFFD700 ));  
18469:    clGoldenRod32', $FFDA520 ));  
18470:    clGreenYellow32', $FFADFF2F ));  
18471:    clGrey32', $FF808080 ));  
18472:    clHoneyDew32', $FFF0FF0 ));  
18473:    clHotPink32', $FFFF69B4 ));  
18474:    clIndianRed32', $FFCD5C5C ));  
18475:    clIndigo32', $FF4B0082 ));  
18476:    clIvory32', $FFFFFFF0 ));  
18477:    clKhaki32', $FFFOE68C ));  
18478:    clLavender32', $FFE6E6FA ));  
18479:    clLavenderBlush32', $FFFFF0F5 ));  
18480:    clLawnGreen32', $FF7CFC00 ));  
18481:    clLemonChiffon32', $FFFFFFACD ));  
18482:    clLightBlue32', $FFADD8E6 ));  
18483:    clLightCoral32', $FFF08080 ));  
18484:    clLightCyan32', $FFE0FFF ));  
18485:    clLightGoldenRodYellow32', $FFFAFAD2 ));  
18486:    clLightGreen32', $FF90EE90 ));  
18487:    clLightGrey32', $FFD3D3D3 ));  
18488:    clLightPink32', $FFFFB6C1 ));  
18489:    clLightSalmon32', $FFFA07A ));  
18490:    clLightSeagreen32', $FF20B2AA ));  
18491:    clLightSkyblue32', $FF87CEFA ));  
18492:    clLightSlategray32', $FF778899 ));  
18493:    clLightSlategrey32', $FF778899 ));  
18494:    clLightSteelblue32', $FFB0C4DE ));  
18495:    clLightYellow32', $FFFFFFE0 ));  
18496:    clLtGray32', $FFC0COC0 ));  
18497:    clMedGray32', $FFA0AOA4 ));  
18498:    clDkGray32', $FF808080 ));  
18499:    clMoneyGreen32', $FFC0DCC0 ));  
18500:    clLegacySkyBlue32', $FFA6CAF0 ));  
18501:    clCream32', $FFFFFFBF0 ));  
18502:    clLimeGreen32', $FF32CD32 ));  
18503:    clLinen32', $FFFAF0E6 ));  
18504:    clMediumAquamarine32', $FF66CDAA ));  
18505:    clMediumBlue32', $FF0000CD ));  
18506:    clMediumOrchid32', $FFBA55D3 ));  
18507:    clMediumPurple32', $FF9370DB ));  
18508:    clMediumSeaGreen32', $FF3CB371 ));  
18509:    clMediumSlateBlue32', $FF7B68EE ));  
18510:    clMediumSpringGreen32', $FF00FA9A ));  
18511:    clMediumTurquoise32', $FF48D1CC ));
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18512:     clMediumVioletRed32', $FFC71585 ));
18513:     clMidnightBlue32', $FFF191970 ));
18514:     clMintCream32', $FFF5FFFA ));
18515:     clMistyRose32', $FFFFE4E1 ));
18516:     clMoccasin32', $FFFFE4B5 ));
18517:     clNavajoWhite32', $FFFFDEAD ));
18518:     clOldLace32', $FFFDF5E6 ));
18519:     clOliveDrab32', $FF6B8E23 ));
18520:     clOrange32', $FFFFA500 ));
18521:     clOrangeRed32', $FFFF4500 ));
18522:     clOrchid32', $FFDA70D6 ));
18523:     clPaleGoldenRod32', $FFEEE8AA ));
18524:     clPaleGreen32', $FF98FB98 ));
18525:     clPaleTurquoise32', $FFAFEEEE ));
18526:     clPaleVioletred32', $FFDB7093 ));
18527:     clPapayaWhip32', $FFFFEF05 ));
18528:     clPeachPuff32', $FFFFDAB9 ));
18529:     clPeru32', $FFCD853F ));
18530:     clPlum32', $FFDDA0DD ));
18531:     clPowderBlue32', $FFB0E0E6 ));
18532:     clRosyBrown32', $FFBC8F8F ));
18533:     clRoyalBlue32', $FF4169E1 ));
18534:     clSaddleBrown32', $FF8B4513 ));
18535:     clSalmon32', $FFFA8072 ));
18536:     clSandyBrown32', $FFF4A460 ));
18537:     clSeaGreen32', $FF2E8B57 ));
18538:     clSeashell32', $FFFFFF5EE ));
18539:     clSienna32', $FFA0522D ));
18540:     clSilver32', $FFC0C0C0 ));
18541:     clSkyblue32', $FF87CEEB ));
18542:     clSlateBlue32', $FF6A5ACD ));
18543:     clSlateGray32', $FF708090 ));
18544:     clSlateGrey32', $FF708090 ));
18545:     clSnow32', $FFFFFFFAFA ));
18546:     clSpringgreen32', $FF00FF7F ));
18547:     clSteelblue32', $FF4682B4 ));
18548:     clTan32', $FFD2B48C ));
18549:     clThistle32', $FFD8BF08 ));
18550:     clTomato32', $FFFF6347 ));
18551:     clTurquoise32', $FF40E0D0 ));
18552:     clViolet32', $FFEE82EE ));
18553:     clWheat32', $FFF5DEB3 ));
18554:     clWhitesmoke32', $FFF5F5F5 ));
18555:     clYellowgreen32', $FF9ACD32 ));
18556:     clTrWhite32', $7FFFFFFF ));
18557:     clTrBlack32', $7F000000 ));
18558:     clTrRed32', $7FFF0000 ));
18559:     clTrGreen32', $7F00FF00 ));
18560:     clTrBlue32', $7F0000FF ));
18561: // Fixed point math constants
18562: FixedOne = $10000; FixedHalf = $7FFF;
18563: FixedPI = Round(PI * FixedOne);
18564: FixedToFloat = 1/FixedOne;
18565:
18566: Special Types
18567: ****
18568: type Complex = record
18569:   X, Y : Float;
18570: end;
18571: type TVector      = array of Float;
18572: TIntVector    = array of Integer;
18573: TCompVector   = array of Complex;
18574: TBoolVector   = array of Boolean;
18575: TStringVector = array of String;
18576: TMatrix        = array of TVector;
18577: TIntMatrix    = array of TIntVector;
18578: TCompMatrix   = array of TCompVector;
18579: TBoolMatrix   = array of TBoolVector;
18580: TStringMatrix = array of TString;
18581: TByteArray    = array[0..32767] of byte; !
18582: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
18583: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);
18584: T2StringArray = array of array of string;
18585: T2IntegerArray = array of array of integer;
18586: AddTypeS('INT_PTR', 'Integer');
18587: AddTypeS('LONG_PTR', 'Integer');
18588: AddTypeS('UINT_PTR', 'Cardinal');
18589: AddTypeS('ULONG_PTR', 'Cardinal');
18590: AddTypeS('DWORD_PTR', 'ULONG_PTR');
18591: TIntegerDynArray', 'array of Integer;
18592: TCardinalDynArray', 'array of Cardinal;
18593: TWordDynArray', 'array of Word;
18594: TSmallIntDynArray', 'array of SmallInt;
18595: TByteDynArray', 'array of Byte;
18596: TShortIntDynArray', 'array of ShortInt;
18597: TInt64DynArray', 'array of Int64;
18598: TLongWordDynArray', 'array of LongWord;
18599: TSingleDynArray', 'array of Single;
18600: TDoubleDynArray', 'array of Double;

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18601: TBooleanDynArray', 'array of Boolean
18602: TStringDynArray', 'array of string
18603: TWideStringDynArray', 'array of WideString
18604: TDynByteArray      = array of Byte;
18605: TDynShortintArray = array of Shortint;
18606: TDynSmallintArray = array of Smallint;
18607: TDynWordArray     = array of Word;
18608: TDynIntegerArray  = array of Integer;
18609: TDynLongintArray  = array of Longint;
18610: TDynCardinalArray = array of Cardinal;
18611: TDynInt64Array    = array of Int64;
18612: TDynExtendedArray = array of Extended;
18613: TDynDoubleArray   = array of Double;
18614: TDynSingleArray   = array of Single;
18615: TDynFloatArray   = array of Float;
18616: TDynPointerArray  = array of Pointer;
18617: TDynStringArray   = array of string;
18618: TSynSearchOption  = (ssoMatchCase, ssoWholeWord, ssoBackwards,
18619:           ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
18620: TSynSearchOptions = set of TSynSearchOption;
18621:
18622:
18623:
18624: /* Project : Base Include RunTime Lib for maxbox *Name: pas_includebox.inc
18625: -----
18626: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
18627: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
18628: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
18629: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18630: function CheckStringSum(vstring: string): integer;
18631: function HexToInt(HexNum: string): LongInt;
18632: function IntToBin(Int: Integer): String;
18633: function BinToInt(Binary: String): Integer;
18634: function HexToBin(HexNum: string): string; external2
18635: function BinToHex(Binary: String): string;
18636: function IntToFloat(i: Integer): double;
18637: function AddThousandSeparator(S: string; myChr: Char): string;
18638: function Max3(const X,Y,Z: Integer): Integer;
18639: procedure Swap(var X,Y: char); // faster without inline
18640: procedure ReverseString(var S: String);
18641: function CharToHexStr(Value: Char): string;
18642: function CharToUniCode(Value: Char): string;
18643: function Hex2Dec(Value: Str002): Byte;
18644: function HexStrCodeToStr(Value: string): string;
18645: function HexToStr(i: integer; value: string): string;
18646: function UniCodeToStr(Value: string): string;
18647: function CRC16(statement: string): string;
18648: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
18649: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
18650: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
18651: Procedure ExecuteCommand(executeFile, paramstring: string);
18652: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18653: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
18654: procedure SearchAndOpenDoc(vfilenamepath: string);
18655: procedure ShowInterfaces(myFile: string);
18656: function Fact2(av: integer): extended;
18657: Function BoolToStr(B: Boolean): string;
18658: Function GCD(x, y: LongInt) : LongInt;
18659: function LCM(m,n: longint): longint;
18660: function GetASCII: string;
18661: function GetItemHeight(Font: TFont): Integer;
18662: function myPlaySound(s: pchar; flag, syncflag: integer): boolean;
18663: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
18664: function getHINSTANCE: longword;
18665: function getHMODULE: longword;
18666: function GetASCII: string;
18667: function ByteisOk(const AByte: string; var VB: Byte): boolean;
18668: function WordisOk(const AWord: string; var VM: Word): boolean;
18669: function TwentyFourBitValueisOk(const AValue: string; var VI: Integer): boolean;
18670: function LongisOk(const ALong: string; var VC: Cardinal): boolean;
18671: function SafeStr(const s: string): string;
18672: function ExtractUrlPath(const FileName: string): string;
18673: function ExtractUrlName(const FileName: string): string;
18674: function IsInternet: boolean;
18675: function RotateLeft1Bit_u32( Value: uint32): uint32;
18676: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int/var
18677: LF:TStLinEst; ErrorStats : Boolean);
18678: procedure getEnvironmentInfo;
18679: procedure AntiFreeze;
18680: function GetCPUSpeed: Double;
18681: function IsVirtualPcGuest : Boolean;
18682: function IsVmWareGuest : Boolean;
18683: procedure StartSerialDialog;
18684: function IsWoW64: boolean;
18685: function IsWow64String(var s: string): Boolean;
18686: procedure StartThreadDemo;
18687: Function RGB(R,G,B: Byte): TColor;
18688: Procedure maxbox;

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18689: Function AspectRatio(aWidth, aHeight: Integer): String;
18690: function wget(aURL, afile: string): boolean;
18691: procedure PrintList(Value: TStringList);
18692: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
18693: procedure getEnvironmentInfo;
18694: procedure AntiFreeze;
18695: function getBitmap(apath: string): TBitmap;
18696: procedure ShowMessageBig(const aText : string);
18697: function YesNoDialog(const ACaption, AMsg: string): boolean;
18698: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
18699: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
18700: //function myStrToBytes(const Value: String): TBytes;
18701: //function myBytesToStr(const Value: TBytes): String;
18702: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18703: function getBitmap(apath: string): TBitmap;
18704: procedure ShowMessageBig(const aText : string);
18705: Function StrToBytes(const Value: String): TBytes;
18706: Function BytesToStr(const Value: TBytes): String;
18707: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18708: function ReversedDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
18709: function FindinPaths(const fileName, paths : String) : String;
18710: procedure initHexArray(var hexn: THexArray);
18711: function josephusG(n,k: integer; var graphout: string): integer;
18712: function isPowerof2(num: int64): boolean;
18713: function powerOf2(exponent: integer): int64;
18714: function getBigPI: string;
18715: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
18716: function GetASCIIline: string;
18717: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
18718:                                pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
18719: procedure SetComplexSoundElements(freqedt,Phaseeedt,AmpEdt,WaveGrp:integer);
18720: procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
18721: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
18722: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
18723: function IsKeyPressed: boolean;
18724: function Keypress: boolean;
18725: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
18726: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
18727: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
18728: function GetOSName: string;
18729: function GetOSVersion: string;
18730: function GetOSNumber: string;
18731: function GetEnvironmentString: string;
18732: procedure StrReplace(var Str: String; Old, New: String);
18733: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18734: function getTeamViewerID: string;
18735: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
18736: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
18737: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18738: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
18739: function StartSocketService: Boolean;
18740: procedure StartSocketServiceForm;
18741: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
18742: function GetFileList1(apath: string): TStringlist;
18743: procedure LetFileList(FileList: TStringlist; apath: string);
18744: procedure StartWeb(auurl: string);
18745: function GetTodayFiles(startdir, amask: string): TStringlist;
18746: function PortTCPIsOpen(dwPort: Word; ipAddressStr: String): boolean;
18747: function JavaHashCode(val: string): Integer;
18748: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
18749: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
18750: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
18751: Procedure HideWindowForSeconds2(secs: integer; appHandle, aSelf: TForm); { //3 seconds}
18752: Procedure ConvertToGray(Cnv: TCanvas);
18753: function GetFileDate(aFile:string; aWithTime:Boolean):string;
18754: procedure ShowMemory;
18755: function ShowMemory2: string;
18756: function getHostIP: string;
18757: procedure ShowBitmap(bmap: TBitmap);
18758: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
18759: function CreateDBGridForm(dblist: TStringList): TListBox;
18760: function IsService: boolean;
18761: function IsApplication: boolean;
18762: function IsTerminalSession: boolean;
18763:
18764:
18765: // News of 3.9.8 up
18766: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18767: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18768: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18769: JvChart - TJvChart Component - 2009 Public
18770: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
18771: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
18772: TADOQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions
18773: DMath DLL included incl. Demos
18774: Interface Navigator menu/View/Intf Navigator
18775: Unit Explorer menu/Debug/Units Explorer
18776: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maxcel

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18777: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
18778: Script History to 9 Files WebServer light /Options/Addons/WebServer
18779: Full Text Finder, JVSimLogic Simulator Package
18780: Halt-Stop Program in Menu, WebServer2, Stop Event ,
18781: Conversion Routines, Prebuild Forms, CodeSearch
18782: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18783: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18784: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18785: JvChart - TJvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TJvPaintFX
18786: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
18787: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
18788: IDE Reflection API, Session Service Shell S3
18789: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
18790: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
18791: arduino map() function, PRMRandom Generator
18792: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
18793: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
18794: REST Test Lib, Multilang Component, Forth Interpreter
18795: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
18796: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
18797: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18798: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18799: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
18800: QRCode Service, add more CFunctions like CDateTime of Synapse
18801: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
18802: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
18803: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
18804: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
18805: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
18806: BOLD Package, Indy Package5, maTRIx. MATHEMAX
18807: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
18808: emax layers: system-package-component-unit-class-function-block
18809: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
18810: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
18811: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
18812: OpenGL Game Demo: ..Options/Add Ons/Reversi
18813: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
18814: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
18815: 7% performance gain (hot spot profiling)
18816: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
18817: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
18818: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
18819: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
18820:
18821: add routines in 3.9.7.5
18822: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEExec);
18823: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEExec);
18824: 069: procedure RIRegister_IdStrings_Routines(S: TPSEExec);
18825: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEExec);
18826: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEExec);
18827: 374: procedure RIRegister_SerDlgs_Routines(S: TPSEExec);
18828: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEExec);
18829:
18830: ////////////////////////////////////////////////////////////////// TestUnits //////////////////////////////////////////////////////////////////
18831: SelftestPEM;
18832: SelfTestCFundamentUtils;
18833: SelfTestCFileUtils;
18834: SelfTestCDateTime;
18835: SelfTestCTimer;
18836: SelfTestCRandom;
18837: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
18838:           Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath'
18839:
18840: // Note: There's no need for installing a client certificate in the
18841: // webbrowser. The server asks the webbrowser to send a certificate but
18842: // if nothing is installed the software will work because the server
18843: // doesn't check to see if a client certificate was supplied. If you want you can install:
18844: //
18845: // file: c_cacert.p12
18846: // password: c_cakey
18847:
18848: TGraphicControl = class(TControl)
18849: private
18850:   FCanvas: TCanvas;
18851:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
18852: protected
18853:   procedure Paint; virtual;
18854:   property Canvas: TCanvas read FCanvas;
18855: public
18856:   constructor Create(AOwner: TComponent); override;
18857:   destructor Destroy; override;
18858: end;
18859:
18860: TCustomControl = class(TWinControl)
18861: private
18862:   FCanvas: TCanvas;
18863:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
18864: protected
18865:   procedure Paint; virtual;

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18866:     procedure PaintWindow(DC: HDC); override;
18867:     property Canvas: TCanvas read FCanvas;
18868:   public
18869:     constructor Create(AOwner: TComponent); override;
18870:     destructor Destroy; override;
18871:   end;
18872:   RegisterPublishedProperties;
18873:   ('ONCHANGE', 'TNotifyEvent', iptrw);
18874:   ('ONCLICK', 'TNotifyEvent', iptrw);
18875:   ('ONDBLCLICK', 'TNotifyEvent', iptrw);
18876:   ('ONENTER', 'TNotifyEvent', iptrw);
18877:   ('ONEXIT', 'TNotifyEvent', iptrw);
18878:   ('ONKEYDOWN', 'TKeyEvent', iptrw);
18879:   ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
18880:   ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
18881:   ('ONMOUSEMOVE', 'TMouseEvent', iptrw);
18882:   ('ONMOUSEUP', 'TMouseEvent', iptrw);
18883: //*****
18884: // To stop the while loop, click on Options>Show Include (boolean switch) !
18885: Control a loop in a script with a form event:
18886: IncludeON; //control the while loop
18887: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
18888:
18889: //-----
18890: //*****mX4 ini-file Configuration*****
18891: //-----
18892: using config file maxboxdef.ini      menu/Help/Config File
18893:
18894: //*** Definitions for maxBox mX3 ***
18895: [FORM]
18896: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
18897: FONTSIZE=14
18898: EXTENSION=txt
18899: SCREENX=1386
18900: SCREENY=1077
18901: MEMHEIGHT=350
18902: PRINTFONT=Courier New //GUI Settings
18903: LINENUMBERS=Y //line numbers at gutter in editor at left side
18904: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! -menu Debug>Show Last Exceptions
18905: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
18906: BOOTSCRIPT=Y //enabling load a boot script
18907: MEMORYREPORT=Y //shows memory report on closing maxbox
18908: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
18909: NAVIGATOR=N //shows function list at the right side of editor
18910: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
18911: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
18912: [WEB]
18913: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
18914: IPHOST=192.168.1.53
18915: ROOTCERT=filepathY
18916: SCERT=filepathY
18917: RSAKEY=filepathY
18918: VERSIONCHECK=Y
18919:
18920: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
18921:
18922: Also possible to set report memory in script to override ini setting
18923: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
18924:
18925:
18926: After Change the ini file you can reload the file with ..../Help/Config Update
18927:
18928: //-----
18929: //*****mX4 maildef.ini ini-file Configuration*****
18930: //-----
18931: //*** Definitions for maxMail ***
18932: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
18933: [MAXMAIL]
18934: HOST=mailto.softwareschule.ch
18935: USER=mailusername
18936: PASS=password
18937: PORT=110
18938: SSL=Y
18939: BODY=Y
18940: LAST=5
18941:
18942: ADO Connection String:
18943: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
18944:
18945: OpenSSL Lib: unit ssl_openssl_lib;
18946: {$IFDEF CIL}
18947: const
18948: {$IFDEF LINUX}
18949: DLLSSLLName = 'libssl.so';
18950: DLLUtilName = 'libcrypto.so';
18951: {$ELSE}
18952: DLLSSLLName = 'ssleay32.dll';
18953: DLLUtilName = 'libeay32.dll';
18954: {$ENDIF}

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18955: {$ELSE}
18956: var
18957: {$IFDEF MSWINDOWS}
18958: {$IFDEF DARWIN}
18959: DLLSSLName: string = 'libssl.dylib';
18960: DLLUtilName: string = 'libcrypto.dylib';
18961: {$ELSE}
18962: DLLSSLName: string = 'libssl.so';
18963: DLLUtilName: string = 'libcrypto.so';
18964: {$ENDIF}
18965: {$ELSE}
18966: DLLSSLName: string = 'ssleay32.dll';
18967: DLLSSLName2: string = 'libssl32.dll';
18968: DLLUtilName: string = 'libleay32.dll';
18969: {$ENDIF}
18970: {$ENDIF}
18971:
18972:
18973: //-----
18974: //*****mX4 Macro Tags *****
18975: //-----
18976:
18977: asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
18978:
18979: //Tag Macros
18980:
18981: asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
18982:
18983: //Tag Macros
18984: 10188: SearchAndCopy(memo1.lines, '#name', getUsernameWin, 11);
18985: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
18986: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
18987: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
18988: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
18989: 10199: SearchAndCopy(memo1.lines, '#fils', fname + '#SHA1(Act_Filename)', 11);
18990: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
18991: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
18992: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
18993: [getUserNameWin, getComputernameWin, datetimetoStr(now),
18994: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s: %s %s',
18995: 10197: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]], 11));
18996: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]], 11));
18997: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
18998: [perftime, numprocesssthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]], 11));
18999: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s local IPs: %s local IP: %s',
19000: [getDNS, GetLocalIPs, getIPAddress(getComputerNameWin)]], 10));
19001:
19002: //#tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
19003:
19004: //Replace Macros
19005: SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
19006: SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
19007: SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
19008: SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPath, 9);
19009: SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
19010: SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
19011:
19012: SearchAndCopy(memo1.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19013: [perftime, numprocesssthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]], 11));
19014: //#tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19015: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt'
19016:
19017: //-----
19018: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
19019: //-----
19020:
19021: while I < sl.Count do begin
19022: // if MatchesMask(sl[I], '/? TODO ([a-zA-Z_]*#[1-9]#)*:*') then
19023: if MatchesMask(sl[I], '/? TODO (?*#?#)*:*') then
19024: BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
19025: else if MatchesMask(sl[I], '/? DONE (?*#?#)*:*') then
19026: BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
19027: else if MatchesMask(sl[I], '/? TODO (?*#?#)*:*') then
19028: BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
19029: else if MatchesMask(sl[I], '/? DONE (?*#?#)*:*') then
19030: BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
19031: else if MatchesMask(sl[I], '/?TODO*:*) then
19032: BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
19033: else if MatchesMask(sl[I], '/?*?DONE*:*) then
19034: BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
19035: Inc(I);
19036: end;
19037:
19038:
19039: //-----
19040: //*****mX4 Public Tools API *****
19041: //-----
19042: file : unit uPSI_fMain.pas; {$SOTAP} Open Tools API Catalog

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19043: // Those functions concern the editor and preprocessor, all of the IDE
19044: Example: Call it with maxform1.InfolClick(self)
19045: Note: Call all Methods with maxForm1., e.g.:
19046:         maxForm1.ShellStyle1Click(self);
19047:
19048: procedure SIRegister_fMain(CL: TPSPascalCompiler);
19049: begin
19050:   Const('BYTECODE','String 'bytecode.txt'
19051:   Const('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT')
19052:   Const('PSMODEL','String PS Modelfiles (*.uc)|*.UC
19053:   Const('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS
19054:   Const('PSINC','String PS Includes (*.inc)|*.INC
19055:   Const('DEFFILENAME','String 'firstdemo.txt
19056:   Const('DEFINIFIENE','String 'maxboxdef.ini
19057:   Const('EXCEPTLOGFILE','String 'maxboxerrorlog.txt
19058:   Const('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt
19059:   Const('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf
19060:   Const('ALLOBJECTSLIST','String 'docs\VCL.pdf
19061:   Const('ALLRESOURCELIST','String 'docs\upsi_allresourcelist.txt
19062:   Const('ALLUNITLIST','String 'docs\maxbox3_9.xml')
19063:   Const('INCLUDEBOX','String 'pas_includebox.inc
19064:   Const('BOOTSCRIPT','String 'maxbootscript.txt
19065:   Const('MBVERSION','String '3.9.9.96
19066:   Const('VERSION','String '3.9.9.96
19067:   Const('MBVER','String '399
19068:   Const('MBVERI','Integer'(399;
19069:   Const('MBVERIALL','Integer'(39996;
19070:   Const('EXENAME','String 'maxBox3.exe
19071:   Const('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
19072:   Const('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
19073:   Const('MXINTERNETCHECK','String 'www.ask.com
19074:   Const('MXMAIL','String 'max@kleiner.com
19075:   Const('TAB','Char #'#09);
19076:   Const('CODECOMPLETION','String 'bds_delphi.dci
19077:   SIRegister_TMaxForm1(CL);
19078: end;
19079:
19080: with FindClass('TForm'),'TMaxForm1') do begin
19081:   memo2', 'TMemo', iptrw);
19082:   memo1', 'TSynMemo', iptrw);
19083:   CBLISCList', 'TComboBox', iptrw);
19084:   mxNavigator', 'TComboBox', iptrw);
19085:   IPHost', 'string', iptrw);
19086:   IPPort', 'integer', iptrw);
19087:   COMPort', 'integer', iptrw); //3.9.6.4
19088:   Splitter1', 'TSplitter', iptrw);
19089:   PSScript', 'TPSScript', iptrw);
19090:   PSDllPlugin', 'TPSDllPlugin', iptrw);
19091:   MainMenu1', 'TMainMenu', iptrw);
19092:   Program1', 'TMenuItem', iptrw);
19093:   Compile1', 'TMenuItem', iptrw);
19094:   Files1', 'TMenuItem', iptrw);
19095:   open1', 'TMenuItem', iptrw);
19096:   Save2', 'TMenuItem', iptrw);
19097:   Options1', 'TMenuItem', iptrw);
19098:   Savebefore1', 'TMenuItem', iptrw);
19099:   Largefont1', 'TMenuItem', iptrw);
19100:   sBytecode1', 'TMenuItem', iptrw);
19101:   Saveas3', 'TMenuItem', iptrw);
19102:   Clear1', 'TMenuItem', iptrw);
19103:   Slinenumbers1', 'TMenuItem', iptrw);
19104:   About1', 'TMenuItem', iptrw);
19105:   Search1', 'TMenuItem', iptrw);
19106:   SynPasSyn1', 'TSynPasSyn', iptrw);
19107:   memo1', 'TSynMemo', iptrw);
19108:   SynEditSearch1', 'TSynEditSearch', iptrw);
19109:   WordWrap1', 'TMenuItem', iptrw);
19110:   XPMManifest1', 'TXPMManifest', iptrw);
19111:   SearchNext1', 'TMenuItem', iptrw);
19112:   Replace1', 'TMenuItem', iptrw);
19113:   PSImport_Controls1', 'TPSImport_Controls', iptrw);
19114:   PSImport_Classes1', 'TPSImport_Classes', iptrw);
19115:   ShowInclude1', 'TMenuItem', iptrw);
19116:   SynEditPrint1', 'TSynEditPrint', iptrw);
19117:   Printout1', 'TMenuItem', iptrw);
19118:   mnPrintColors1', 'TMenuItem', iptrw);
19119:   dlgFilePrint', 'TPrintDialog', iptrw);
19120:   dlgPrintFont1', 'TFontDialog', iptrw);
19121:   mnuPrintFont1', 'TMenuItem', iptrw);
19122:   Include1', 'TMenuItem', iptrw);
19123:   CodeCompletionList1', 'TMenuItem', iptrw);
19124:   IncludeList1', 'TMenuItem', iptrw);
19125:   ImageList1', 'TImageList', iptrw);
19126:   ImageList2', 'TImageList', iptrw);
19127:   CoolBar1', 'TCoolBar', iptrw);
19128:   ToolBar1', 'TToolBar', iptrw);
19129:   tbtnLoad', 'TToolButton', iptrw);
19130:   ToolButton2', 'TToolButton', iptrw);
19131:   tbtnFind', 'TToolButton', iptrw);

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19132: tbtnCompile', 'TToolButton', iptrw);
19133: tbtnTrans', 'TToolButton', iptrw);
19134: tbtnUseCase', 'TToolButton', iptrw); //3.8
19135: toolbtnTutorial', 'TToolButton', iptrw);
19136: tbtn6res', 'TToolButton', iptrw);
19137: ToolButton5', 'TToolButton', iptrw);
19138: ToolButton1', 'TToolButton', iptrw);
19139: ToolButton3', 'TToolButton', iptrw);
19140: statusBar1', 'TStatusBar', iptrw);
19141: SaveOutput1', 'TMenuItem', iptrw);
19142: ExportClipboard1', 'TMenuItem', iptrw);
19143: Close1', 'TMenuItem', iptrw);
19144: Manual1', 'TMenuItem', iptrw);
19145: About2', 'TMenuItem', iptrw);
19146: loadLastfile1', 'TMenuItem', iptrw);
19147: imgLogo', 'TImage', iptrw);
19148: cedebbug', 'TPSScriptDebugger', iptrw);
19149: debugPopupMenu', 'TPopupMenu', iptrw);
19150: BreakPointMenu', 'TMenuItem', iptrw);
19151: Decompile1', 'TMenuItem', iptrw);
19152: StepInTo1', 'TMenuItem', iptrw);
19153: StepOut1', 'TMenuItem', iptrw);
19154: Reset1', 'TMenuItem', iptrw);
19155: DebugRun1', 'TMenuItem', iptrw);
19156: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
19157: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
19158: PSImport_Forms1', 'TPSImport_Forms', iptrw);
19159: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
19160: tutorial4', 'TMenuItem', iptrw);
19161: ExporttoClipboard1', 'TMenuItem', iptrw);
19162: ImportfromClipboard1', 'TMenuItem', iptrw);
19163: N4', 'TMenuItem', iptrw);
19164: N5', 'TMenuItem', iptrw);
19165: N6', 'TMenuItem', iptrw);
19166: ImportfromClipboard2', 'TMenuItem', iptrw);
19167: tutorial1', 'TMenuItem', iptrw);
19168: N7', 'TMenuItem', iptrw);
19169: ShowSpecChars1', 'TMenuItem', iptrw);
19170: OpenDirectory1', 'TMenuItem', iptrw);
19171: procMess', 'TMenuitem', iptrw);
19172: tbtnUseCase', 'TToolButton', iptrw);
19173: ToolButton7', 'TToolButton', iptrw);
19174: EditFont1', 'TMenuItem', iptrw);
19175: UseCase1', 'TMenuItem', iptrw);
19176: tutorial21', 'TMenuItem', iptrw);
19177: OpenUseCase1', 'TMenuItem', iptrw);
19178: PSImport_DB1', 'TPSImport_DB', iptrw);
19179: tutorial31', 'TMenuItem', iptrw);
19180: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
19181: HTMLSyntax1', 'TMenuItem', iptrw);
19182: ShowInterfaces1', 'TMenuItem', iptrw);
19183: Tutorials5', 'TMenuItem', iptrw);
19184: AllFunctionsList1', 'TMenuItem', iptrw);
19185: ShowLastException1', 'TMenuItem', iptrw);
19186: PlayMP31', 'TMenuItem', iptrw);
19187: SynTeXSyn1', 'TSynTeXSyn', iptrw);
19188: texSyntax1', 'TMenuItem', iptrw);
19189: N8', 'TMenuItem', iptrw);
19190: GetEMails1', 'TMenuItem', iptrw);
19191: SynCppSyn1', 'TSynCppSyn', iptrw);
19192: CSyntax1', 'TMenuItem', iptrw);
19193: Tutorial6', 'TMenuItem', iptrw);
19194: New1', 'TMenuItem', iptrw);
19195: AllObjectsList1', 'TMenuItem', iptrw);
19196: LoadBytecode1', 'TMenuItem', iptrw);
19197: CipherFile1', 'TMenuItem', iptrw);
19198: N9', 'TMenuItem', iptrw);
19199: N10', 'TMenuItem', iptrw);
19200: Tutorial11', 'TMenuItem', iptrw);
19201: Tutorial71', 'TMenuItem', iptrw);
19202: UpdateService1', 'TMenuItem', iptrw);
19203: PascalSchool1', 'TMenuItem', iptrw);
19204: Tutorial81', 'TMenuItem', iptrw);
19205: DelphiSite1', 'TMenuItem', iptrw);
19206: Output1', 'TMenuItem', iptrw);
19207: TerminalStyle1', 'TMenuItem', iptrw);
19208: ReadOnly1', 'TMenuItem', iptrw);
19209: ShellStyle1', 'TMenuItem', iptrw);
19210: BigScreen1', 'TMenuItem', iptrw);
19211: Tutorial91', 'TMenuItem', iptrw);
19212: SaveOutput2', 'TMenuItem', iptrw);
19213: N11', 'TMenuItem', iptrw);
19214: SaveScreenshot', 'TMenuItem', iptrw);
19215: Tutorial101', 'TMenuItem', iptrw);
19216: SQLSyntax1', 'TMenuItem', iptrw);
19217: SynSQLSyn1', 'TSynSQLSyn', iptrw);
19218: Console1', 'TMenuItem', iptrw);
19219: SynXMLSyn1', 'TSynXMLSyn', iptrw);
19220: XMLSyntax1', 'TMenuItem', iptrw);
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19221: ComponentCount1', 'TMenuItem', iptrw);
19222: NewInstance1', 'TMenuItem', iptrw);
19223: toolbtnTutorial', 'TToolButton', iptrw);
19224: Memory1', 'TMenuItem', iptrw);
19225: SynJavaSyn1', 'TSynJavaSyn', iptrw);
19226: JavaSyntax1', 'TMenuItem', iptrw);
19227: SyntaxCheck1', 'TMenuItem', iptrw);
19228: Tutorial10Statistics1', 'TMenuItem', iptrw);
19229: ScriptExplorer1', 'TMenuItem', iptrw);
19230: FormOutput1', 'TMenuItem', iptrw);
19231: ArduinoDump1', 'TMenuItem', iptrw);
19232: AndroidDump1', 'TMenuItem', iptrw);
19233: GotoEnd1', 'TMenuItem', iptrw);
19234: AllResourceList1', 'TMenuItem', iptrw);
19235: ToolButton4', 'TToolButton', iptrw);
19236: tbtn6res', 'TToolButton', iptrw);
19237: Tutorial11Forms1', 'TMenuItem', iptrw);
19238: Tutorial12SQL1', 'TMenuItem', iptrw);
19239: ResourceExplore1', 'TMenuItem', iptrw);
19240: Info1', 'TMenuItem', iptrw);
19241: N12', 'TMenuItem', iptrw);
19242: CryptoBox1', 'TMenuItem', iptrw);
19243: Tutorial13Ciphering1', 'TMenuItem', iptrw);
19244: CipherFile2', 'TMenuItem', iptrw);
19245: N13', 'TMenuItem', iptrw);
19246: ModulesCount1', 'TMenuItem', iptrw);
19247: AddOns2', 'TMenuItem', iptrw);
19248: N4GewinntGame1', 'TMenuItem', iptrw);
19249: DocuforAddOns1', 'TMenuItem', iptrw);
19250: Tutorial14Async1', 'TMenuItem', iptrw);
19251: Lessons15Review1', 'TMenuItem', iptrw);
19252: SynPHPSyn1', 'TSynPHPSyn', iptrw);
19253: PHPSyntax1', 'TMenuItem', iptrw);
19254: Breakpoint1', 'TMenuItem', iptrw);
19255: SerialRS2321', 'TMenuItem', iptrw);
19256: N14', 'TMenuItem', iptrw);
19257: SynCSSyn1', 'TSynCSSyn', iptrw);
19258: CSyntax2', 'TMenuItem', iptrw);
19259: Calculator1', 'TMenuItem', iptrw);
19260: tbtnSerial', 'TToolButton', iptrw);
19261: ToolButton8', 'TToolButton', iptrw);
19262: Tutorial151', 'TMenuItem', iptrw);
19263: N15', 'TMenuItem', iptrw);
19264: N16', 'TMenuItem', iptrw);
19265: ControlBar1', 'TControlBar', iptrw);
19266: ToolBar2', 'TToolBar', iptrw);
19267: BtnOpen', 'TToolButton', iptrw);
19268: BtnSave', 'TToolButton', iptrw);
19269: BtnPrint', 'TToolButton', iptrw);
19270: BtnColors', 'TToolButton', iptrw);
19271: btnClassReport', 'TToolButton', iptrw);
19272: BtnRotateRight', 'TToolButton', iptrw);
19273: BtnFullSize', 'TToolButton', iptrw);
19274: BtnFitToWindowSize', 'TToolButton', iptrw);
19275: BtnZoomMinus', 'TToolButton', iptrw);
19276: BtnZoomPlus', 'TToolButton', iptrw);
19277: Panell', 'TPanel', iptrw);
19278: LabelBrettGroesse', 'TLabel', iptrw);
19279: CB1SCList', 'TComboBox', iptrw);
19280: ImageListNormal', 'TImageList', iptrw);
19281: spbtnexaple', 'TSpeedButton', iptrw);
19282: spbsaveas', 'TSpeedButton', iptrw);
19283: imglogobox', 'TImage', iptrw);
19284: EnlargeFont1', 'TMenuItem', iptrw);
19285: EnlargeFont2', 'TMenuItem', iptrw);
19286: ShrinkFont1', 'TMenuItem', iptrw);
19287: ThreadDemo1', 'TMenuItem', iptrw);
19288: HEXEditor1', 'TMenuItem', iptrw);
19289: HEXView1', 'TMenuItem', iptrw);
19290: HEXInspect1', 'TMenuItem', iptrw);
19291: SynExporterHTML1', 'TSynExporterHTML', iptrw);
19292: ExporttoHTML1', 'TMenuItem', iptrw);
19293: ClassCount1', 'TMenuItem', iptrw);
19294: HTMLOutput1', 'TMenuItem', iptrw);
19295: HEXEditor2', 'TMenuItem', iptrw);
19296: Minesweeper1', 'TMenuItem', iptrw);
19297: N17', 'TMenuItem', iptrw);
19298: PicturePuzzle1', 'TMenuItem', iptrw);
19299: sbvc1help', 'TSpeedButton', iptrw);
19300: DependencyWalker1', 'TMenuItem', iptrw);
19301: WebScanner1', 'TMenuItem', iptrw);
19302: View1', 'TMenuItem', iptrw);
19303: mnToolbar1', 'TMenuItem', iptrw);
19304: mnStatusbar2', 'TMenuItem', iptrw);
19305: mnConsole2', 'TMenuItem', iptrw);
19306: mnCoolbar2', 'TMenuItem', iptrw);
19307: mnSplitter2', 'TMenuItem', iptrw);
19308: WebServer1', 'TMenuItem', iptrw);
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19310: Tutorial17Server1', 'TMenuItem', iptrw);
19311: Tutorial18Arduinol', 'TMenuItem', iptrw);
19312: SynPerlSyn1', 'TSynPerlSyn', iptrw);
19313: PerlSyntax1', 'TMenuItem', iptrw);
19314: SynPythonSyn1', 'TSynPythonSyn', iptrw);
19315: PythonSyntax1', 'TMenuItem', iptrw);
19316: DMathLibrary1', 'TMenuItem', iptrw);
19317: IntfNavigator1', 'TMenuItem', iptrw);
19318: EnlargeFontConsole1', 'TMenuItem', iptrw);
19319: ShrinkFontConsole1', 'TMenuItem', iptrw);
19320: SetInterfaceList1', 'TMenuItem', iptrw);
19321: popintfList', 'TPopupMenu', iptrw);
19322: intfAdd1', 'TMenuItem', iptrw);
19323: intfDelete1', 'TMenuItem', iptrw);
19324: intfRefactor1', 'TMenuItem', iptrw);
19325: Defactor1', 'TMenuItem', iptrw);
19326: Tutorial19COMArduino1', 'TMenuItem', iptrw);
19327: Tutorial20Regex', 'TMenuItem', iptrw);
19328: N18', 'TMenuItem', iptrw);
19329: ManualE1', 'TMenuItem', iptrw);
19330: FullTextFinder1', 'TMenuItem', iptrw);
19331: Move1', 'TMenuItem', iptrw);
19332: FractalDemo1', 'TMenuItem', iptrw);
19333: Tutorial21Android1', 'TMenuItem', iptrw);
19334: Tutorial0Function1', 'TMenuItem', iptrw);
19335: SimuLogBox1', 'TMenuItem', iptrw);
19336: OpenExamples1', 'TMenuItem', iptrw);
19337: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
19338: JavaScriptSyntax1', 'TMenuItem', iptrw);
19339: Halt1', 'TMenuItem', iptrw);
19340: CodeSearch1', 'TMenuItem', iptrw);
19341: SynRubySyn1', 'TSynRubySyn', iptrw);
19342: RubySyntax1', 'TMenuItem', iptrw);
19343: Undol', 'TMenuItem', iptrw);
19344: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
19345: LinuxShellScript1', 'TMenuItem', iptrw);
19346: Renamel', 'TMenuItem', iptrw);
19347: spdcodesearch', 'TSpeedButton', iptrw);
19348: Preview1', 'TMenuItem', iptrw);
19349: Tutorial22Services1', 'TMenuItem', iptrw);
19350: Tutorial23RealTime1', 'TMenuItem', iptrw);
19351: Configuration1', 'TMenuItem', iptrw);
19352: MP3Player1', 'TMenuItem', iptrw);
19353: DLLSpy1', 'TMenuItem', iptrw);
19354: SynURIOpener1', 'TSynURIOpener', iptrw);
19355: SynURISyn1', 'TSynURISyn', iptrw);
19356: URILinksClicks1', 'TMenuItem', iptrw);
19357: EditReplace1', 'TMenuItem', iptrw);
19358: GotoLine1', 'TMenuItem', iptrw);
19359: ActiveLineColor1', 'TMenuItem', iptrw);
19360: ConfigFile1', 'TMenuItem', iptrw);
19361: SortIntlList', 'TMenuItem', iptrw);
19362: Redol', 'TMenuItem', iptrw);
19363: Tutorial24CleanCode1', 'TMenuItem', iptrw);
19364: Tutorial25Configuration1', 'TMenuItem', iptrw);
19365: IndentSelection1', 'TMenuItem', iptrw);
19366: UnindentSection1', 'TMenuItem', iptrw);
19367: SkyStyle1', 'TMenuItem', iptrw);
19368: N19', 'TMenuItem', iptrw);
19369: CountWords1', 'TMenuItem', iptrw);
19370: imbookmarkimages', 'TImageList', iptrw);
19371: Bookmark11', 'TMenuItem', iptrw);
19372: N20', 'TMenuItem', iptrw);
19373: Bookmark21', 'TMenuItem', iptrw);
19374: Bookmark31', 'TMenuItem', iptrw);
19375: Bookmark41', 'TMenuItem', iptrw);
19376: SynMultiSyn1', 'TSynMultiSyn', iptrw);
19377:
19378: Procedure IPFS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
19379: Procedure IPFS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
19380: Procedure PSScriptCompile( Sender : TPSScript)
19381: Procedure Compile1Click( Sender : TObject)
19382: Procedure PSScriptExecute( Sender : TPSScript)
19383: Procedure open1click( Sender : TObject)
19384: Procedure Save2Click( Sender : TObject)
19385: Procedure Savebefore1Click( Sender : TObject)
19386: Procedure Largefont1Click( Sender : TObject)
19387: Procedure FormActivate( Sender : TObject)
19388: Procedure SBytecode1Click( Sender : TObject)
19389: Procedure FormKeyPress( Sender : TObject; var Key : Char)
19390: Procedure Saveas3Click( Sender : TObject)
19391: Procedure Clear1Click( Sender : TObject)
19392: Procedure Slinenumbers1Click( Sender : TObject)
19393: Procedure About1Click( Sender : TObject)
19394: Procedure Search1Click( Sender : TObject)
19395: Procedure FormCreate( Sender : TObject)
19396: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
19397: var Action : TSynReplaceAction)
19398: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)

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19399: Procedure WordWrap1Click( Sender : TObject)
19400: Procedure SearchNext1Click( Sender : TObject)
19401: Procedure Replace1Click( Sender : TObject)
19402: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FName,Output:String):Bool;
19403: Procedure ShowInclude1Click( Sender : TObject)
19404: Procedure Printout1Click( Sender : TObject)
19405: Procedure mnuPrintFont1Click( Sender : TObject)
19406: Procedure IncludelClick( Sender : TObject)
19407: Procedure FormDestroy( Sender : TObject)
19408: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
19409: Procedure UpdateView1Click( Sender : TObject)
19410: Procedure CodeCompletionList1Click( Sender : TObject)
19411: Procedure SaveOutput1Click( Sender : TObject)
19412: Procedure ExportClipboard1Click( Sender : TObject)
19413: Procedure Close1Click( Sender : TObject)
19414: Procedure ManuallClick( Sender : TObject)
19415: Procedure LoadLastFile1Click( Sender : TObject)
19416: Procedure Memo1Change( Sender : TObject)
19417: Procedure Decompile1Click( Sender : TObject)
19418: Procedure StepInto1Click( Sender : TObject)
19419: Procedure StepOut1Click( Sender : TObject)
19420: Procedure Reset1Click( Sender : TObject)
19421: Procedure cedebugAfterExecute( Sender : TPSScript)
19422: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
19423: Procedure cedebugCompile( Sender : TPSScript)
19424: Procedure cedebugExecute( Sender : TPSScript)
19425: Procedure cedebugIdle( Sender : TObject)
19426: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
19427: Procedure Memo1SpecialLineColors(Sender : TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
19428: Procedure BreakPointMenuClick( Sender : TObject)
19429: Procedure DebugRun1Click( Sender : TObject)
19430: Procedure tutorial4Click( Sender : TObject)
19431: Procedure ImportfromClipboard1Click( Sender : TObject)
19432: Procedure ImportfromClipboard2Click( Sender : TObject)
19433: Procedure tutorial1Click( Sender : TObject)
19434: Procedure ShowSpecChars1Click( Sender : TObject)
19435: Procedure StatusBar1DblClick( Sender : TObject)
19436: Procedure PSScriptLine( Sender : TObject)
19437: Procedure OpenDirectory1Click( Sender : TObject)
19438: Procedure procMessClick( Sender : TObject)
19439: Procedure tbtnUseCaseClick( Sender : TObject)
19440: Procedure EditFont1Click( Sender : TObject)
19441: Procedure tutorial21Click( Sender : TObject)
19442: Procedure tutorial31Click( Sender : TObject)
19443: Procedure HTMLSyntax1Click( Sender : TObject)
19444: Procedure ShowInterfaces1Click( Sender : TObject)
19445: Procedure Tutorial5Click( Sender : TObject)
19446: Procedure ShowLastException1Click( Sender : TObject)
19447: Procedure PlayMP31Click( Sender : TObject)
19448: Procedure AllFunctionsList1Click( Sender : TObject)
19449: Procedure texSyntax1Click( Sender : TObject)
19450: Procedure GetEMails1Click( Sender : TObject)
19451: procedure DelphiSite1Click(Sender: TObject);
19452: procedure TerminalStyle1Click(Sender: TObject);
19453: procedure ReadOnly1Click(Sender: TObject);
19454: procedure ShellStyle1Click(Sender: TObject);
19455: procedure Console1Click(Sender: TObject); //3.2
19456: procedure BigScreen1Click(Sender: TObject);
19457: procedure Tutorial91Click(Sender: TObject);
19458: procedure SaveScreenshotClick(Sender: TObject);
19459: procedure Tutorial101Click(Sender: TObject);
19460: procedure SQLSyntax1Click(Sender: TObject);
19461: procedure XMLSyntax1Click(Sender: TObject);
19462: procedure ComponentCount1Click(Sender: TObject);
19463: procedure NewInstance1Click(Sender: TObject);
19464: procedure CSyntax1Click(Sender: TObject);
19465: procedure Tutorial6Click(Sender: TObject);
19466: procedure New1Click(Sender: TObject);
19467: procedure AllObjectsList1Click(Sender: TObject);
19468: procedure LoadBytecode1Click(Sender: TObject);
19469: procedure CipherFile1Click(Sender: TObject); //V3.5
19470: procedure NewInstance1Click(Sender: TObject);
19471: procedure toolbtnTutorialClick(Sender: TObject);
19472: procedure Memory1Click(Sender: TObject);
19473: procedure JavaSyntax1Click(Sender: TObject);
19474: procedure SyntaxCheck1Click(Sender: TObject);
19475: procedure ScriptExplorer1Click(Sender: TObject);
19476: procedure FormOutput1Click(Sender: TObject); //V3.6
19477: procedure GotoEnd1Click(Sender: TObject);
19478: procedure AllResourceList1Click(Sender: TObject);
19479: procedure tbtn6resClick(Sender: TObject); //V3.7
19480: procedure Info1Click(Sender: TObject);
19481: procedure Tutorial10Statistics1Click(Sender: TObject);
19482: procedure Tutorial11Forms1Click(Sender: TObject);
19483: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
19484: procedure ResourceExplore1Click(Sender: TObject);
19485: procedure Info1Click(Sender: TObject);
19486: procedure CryptoBox1Click(Sender: TObject);
19487: procedure ModulesCount1Click(Sender: TObject);

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19488: procedure N4GewinntGame1Click(Sender: TObject);
19489: procedure PHPSyntax1Click(Sender: TObject);
19490: procedure SerialRS2321Click(Sender: TObject);
19491: procedure CSyntax2Click(Sender: TObject);
19492: procedure Calculator1Click(Sender: TObject);
19493: procedure Tutorial13Ciphering1Click(Sender: TObject);
19494: procedure Tutorial14Async1Click(Sender: TObject);
19495: procedure PHPSyntax1Click(Sender: TObject);
19496: procedure BtnZoomPlusClick(Sender: TObject);
19497: procedure BtnZoomMinusClick(Sender: TObject);
19498: procedure btnClassReportClick(Sender: TObject);
19499: procedure ThreadDemo1Click(Sender: TObject);
19500: procedure HEXView1Click(Sender: TObject);
19501: procedure ExporttoHTML1Click(Sender: TObject);
19502: procedure Minesweeper1Click(Sender: TObject);
19503: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
19504: procedure sbvc1helpClick(Sender: TObject);
19505: procedure DependencyWalker1Click(Sender: TObject);
19506: procedure CB1SCListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
19507: procedure WebScanner1Click(Sender: TObject);
19508: procedure mnToolbar1Click(Sender: TObject);
19509: procedure mnStatusbar2Click(Sender: TObject);
19510: procedure mnConsole2Click(Sender: TObject);
19511: procedure mnCoolbar2Click(Sender: TObject);
19512: procedure mnSplitter2Click(Sender: TObject);
19513: procedure WebServer1Click(Sender: TObject);
19514: procedure PerlSyntax1Click(Sender: TObject);
19515: procedure PythonSyntax1Click(Sender: TObject);
19516: procedure DMathLibrary1Click(Sender: TObject);
19517: procedure IntfNavigator1Click(Sender: TObject);
19518: procedure FullTextFinder1Click(Sender: TObject);
19519: function AppName: string;
19520: function ScriptName: string;
19521: function LastName: string;
19522: procedure FractalDemo1Click(Sender: TObject);
19523: procedure SimuLogBox1Click(Sender: TObject);
19524: procedure OpenExamples1Click(Sender: TObject);
19525: procedure Halt1Click(Sender: TObject);
19526: procedure Stop;
19527: procedure CodeSearch1Click(Sender: TObject);
19528: procedure RubySyntax1Click(Sender: TObject);
19529: procedure Undo1Click(Sender: TObject);
19530: procedure LinuxShellscript1Click(Sender: TObject);
19531: procedure WebScannerDirect(urls: string);
19532: procedure WebScanner(urls: string);
19533: procedure LoadInterfaceList2;
19534: procedure DLLSpy1Click(Sender: TObject);
19535: procedure Memo1DblClick(Sender: TObject);
19536: procedure URILinksClicks1Click(Sender: TObject);
19537: procedure Gotoline1Click(Sender: TObject);
19538: procedure ConfigFile1Click(Sender: TObject);
19539: Procedure Sort1IntlistClick( Sender : TObject )
19540: Procedure Redo1Click( Sender : TObject )
19541: Procedure Tutorial24CleanCode1Click( Sender : TObject )
19542: Procedure IndentSelection1Click( Sender : TObject )
19543: Procedure UnindentSection1Click( Sender : TObject )
19544: Procedure SkyStyle1Click( Sender : TObject )
19545: Procedure CountWords1Click( Sender : TObject )
19546: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark )
19547: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
19548: Procedure Bookmark11Click( Sender : TObject );
19549: Procedure Bookmark21Click( Sender : TObject );
19550: Procedure Bookmark31Click( Sender : TObject );
19551: Procedure Bookmark41Click( Sender : TObject );
19552: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
19553: 'STATMemoryReport', 'boolean', iptrw);
19554: 'IPPort', 'integer', iptrw);
19555: 'COMPPort', 'integer', iptrw);
19556: 'lbintflist', 'TListBox', iptrw);
19557: Function GetStatChange : boolean;
19558: Procedure SetStatChange( vstat : boolean );
19559: Function GetActFileName : string;
19560: Procedure SetActFileName( vname : string );
19561: Function GetLastFileName : string;
19562: Procedure SetLastFileName( vname : string );
19563: Procedure WebScannerDirect( urls : string );
19564: Procedure LoadInterfaceList2;
19565: Function GetStatExecuteShell : boolean;
19566: Procedure DoEditorExecuteCommand( EditorCommand : word );
19567: function GetActiveLineColor: TColor;
19568: procedure SetActiveLineColor(acolor: TColor);
19569: procedure ScriptListbox1Click(Sender: TObject);
19570: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
19571: procedure EnlargeGutter1Click(Sender: TObject);
19572: procedure Tetris1Click(Sender: TObject);
19573: procedure ToDoList1Click(Sender: TObject);
19574: procedure ProcessList1Click(Sender: TObject);
19575: procedure MetricReport1Click(Sender: TObject);
19576: procedure ProcessList1Click(Sender: TObject);

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19577: procedure TCPSockets1Click(Sender: TObject);
19578: procedure ConfigUpdateClick(Sender: TObject);
19579: procedure ADOWorkbench1Click(Sender: TObject);
19580: procedure SocketServer1Click(Sender: TObject);
19581: procedure FormDemo1Click(Sender: TObject);
19582: procedure Richedit1Click(Sender: TObject);
19583: procedure SimpleBrowser1Click(Sender: TObject);
19584: procedure DOSShell1Click(Sender: TObject);
19585: procedure SynExport1Click(Sender: TObject);
19586: procedure ExporttoRTF1Click(Sender: TObject);
19587: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
19588: procedure SOAPTester1Click(Sender: TObject);
19589: procedure Sniffer1Click(Sender: TObject);
19590: procedure AutoDetectSyntax1Click(Sender: TObject);
19591: procedure FPlot1Click(Sender: TObject);
19592: procedure PassStyle1Click(Sender: TObject);
19593: procedure Tutorial183RGBLED1Click(Sender: TObject);
19594: procedure Reversi1Click(Sender: TObject);
19595: procedure ManualmaxBox1Click(Sender: TObject);
19596: procedure BlaisePascalMagazine1Click(Sender: TObject);
19597: procedure AddToDo1Click(Sender: TObject);
19598: procedure CreateGUID1Click(Sender: TObject);
19599: procedure Tutorial27XML1Click(Sender: TObject);
19600: procedure CreateDLLStub1Click(Sender: TObject);
19601: procedure Tutorial28DLL1Click(Sender: TObject);');
19602: procedure ResetKeyPressed;');
19603: procedure FileChanges1Click(Sender: TObject);');
19604: procedure OpenGLTry1Click(Sender: TObject);');
19605: procedure AllUnitList1Click(Sender: TObject);');
19606: procedure Tutorial29UMLClick(Sender: TObject);
19607: procedure CreateHeader1Click(Sender: TObject);
19608:
19609: //-----
19610: //*****mX4 Editor SynEdit Tools API *****
19611: //-----
19612: procedure SIRegister_TCustomSynEdit(CL: TPSPPascalCompiler);
19613: begin
19614:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
19615:   with FindClass('TCustomControl','TCustomSynEdit') do begin
19616:     Constructor Create(AOwner : TComponent)
19617:     SelStart', 'Integer', iptrw);
19618:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
19619:     Procedure UpdateCaret
19620:       Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19621:       Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19622:     Procedure BeginUndoBlock
19623:     Procedure BeginUpdate
19624:       Function CaretInView : Boolean
19625:       Function CharIndexToRowCol( Index : integer ) : TBufferCoord
19626:       Procedure Clear
19627:       Procedure ClearAll
19628:       Procedure ClearBookMark( BookMark : Integer )
19629:       Procedure ClearSelection
19630:       Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
19631:       Procedure ClearUndo
19632:       Procedure CopyToClipboard
19633:       Procedure CutToClipboard
19634:       Procedure DoCopyToClipboard( const SText : string )
19635:       Procedure EndUndoBlock
19636:       Procedure EndUpdate
19637:       Procedure EnsureCursorPosVisible
19638:       Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
19639:       Procedure FindMatchingBracket
19640:       Function GetMatchingBracket : TBufferCoord
19641:       Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
19642:       Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
19643:       Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
19644:       Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attr : TSynHighlighterAttributes ) : boolean
19645:       Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
19646:         var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
19647:       Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
19648:       Function GetWordAtRowCol( const XY : TBufferCoord ) : string
19649:       Procedure GotoBookMark( BookMark : Integer )
19650:       Procedure GotolineAndCenter( ALine : Integer )
19651:       Function IdentChars : TSynIdentChars
19652:       Procedure InvalidateGutter
19653:       Procedure InvalidateGutterLine( aLine : integer )
19654:       Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
19655:       Procedure InvalidateLine( Line : integer )
19656:       Procedure InvalidateLines( FirstLine, LastLine : integer )
19657:       Procedure InvalidateSelection
19658:       Function IsBookmark( BookMark : integer ) : boolean
19659:       Function IsPointInSelection( const Value : TBufferCoord ) : boolean
19660:       Procedure LockUndo
19661:       Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
19662:       Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
19663:       Function LineToRow( aLine : integer ) : integer
19664:       Function RowToLine( aRow : integer ) : integer

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19666: Function NextWordPos : TBufferCoord
19667: Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
19668: Procedure PasteFromClipboard
19669: Function WordStart : TBufferCoord
19670: Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
19671: Function WordEnd : TBufferCoord
19672: Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
19673: Function PrevWordPos : TBufferCoord
19674: Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
19675: Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
19676: Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
19677: Procedure Redo
19678: Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent;AHandlerData:pointer );
19679: Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
19680: Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
19681: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
19682: Procedure SelectAll
19683: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
19684: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
19685: Procedure SetDefaultKeystrokes
19686: Procedure SetSelWord
19687: Procedure SetWordBlock( Value : TBufferCoord )
19688: Procedure Undo
19689: Procedure UnlockUndo
19690: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
19691: Procedure AddKeyUpHandler( aHandler : TKeyEvent )
19692: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
19693: Procedure AddKeyDownHandler( aHandler : TKeyEvent )
19694: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
19695: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
19696: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
19697: Procedure AddFocusControl( aControl : TWinControl )
19698: Procedure RemoveFocusControl( aControl : TWinControl )
19699: Procedure AddMouseDownHandler( aHandler : TMouseEvent )
19700: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
19701: Procedure AddMouseUpHandler( aHandler : TMouseEvent )
19702: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
19703: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent )
19704: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent )
19705: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
19706: Procedure RemoveLinesPointer
19707: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
19708: Procedure UnHookTextBuffer
19709: BlockBegin', 'TBufferCoord', iptrw);
19710: BlockEnd', 'TBufferCoord', iptrw);
19711: CanPaste', 'Boolean', iptr);
19712: CanRedo', 'boolean', iptr);
19713: CanUndo', 'boolean', iptr);
19714: CaretX', 'Integer', iptrw);
19715: CaretY', 'Integer', iptrw);
19716: CaretXY', 'TBufferCoord', iptrw);
19717: ActiveLineColor', 'TColor', iptrw);
19718: DisplayX', 'Integer', iptr);
19719: DisplayY', 'Integer', iptr);
19720: DisplayXY', 'TDisplayCoord', iptr);
19721: DisplayLineCount', 'integer', iptr);
19722: CharsInWindow', 'Integer', iptr);
19723: CharWidth', 'integer', iptr);
19724: Font', 'TFont', iptrw);
19725: GutterWidth', 'Integer', iptr);
19726: Highlighter', 'TSynCustomHighlighter', iptrw);
19727: LeftChar', 'Integer', iptrw);
19728: LineHeight', 'integer', iptr);
19729: LinesInWindow', 'Integer', iptr);
19730: LineText', 'string', iptrw);
19731: Lines', 'TStrings', iptrw);
19732: Marks', 'TSynEditMarkList', iptr);
19733: MaxScrollWidth', 'integer', iptrw);
19734: Modified', 'Boolean', iptrw);
19735: PaintLock', 'Integer', iptr);
19736: ReadOnly', 'Boolean', iptrw);
19737: SearchEngine', 'TSynEditSearchCustom', iptrw);
19738: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
19739: SelTabBlock', 'Boolean', iptr);
19740: SelTabLine', 'Boolean', iptr);
19741: SelText', 'string', iptrw);
19742: StateFlags', 'TSynStateFlags', iptr);
19743: Text', 'string', iptrw);
19744: TopLine', 'Integer', iptrw);
19745: WordAtCursor', 'string', iptr);
19746: WordAtMouse', 'string', iptr);
19747: UndoList', 'TSynEditUndoList', iptr);
19748: RedoList', 'TSynEditUndoList', iptr);
19749: OnProcessCommand', 'TProcessCommandEvent', iptrw);
19750: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
19751: BorderStyle', 'TSynBorderStyle', iptrw);
19752: ExtraLineSpacing', 'integer', iptrw);
19753: Gutter', 'TSynGutter', iptrw);
19754: HideSelection', 'boolean', iptrw);

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19755:     InsertCaret', 'TSynEditCaretType', iptrw);
19756:     InsertMode', 'boolean', iptrw);
19757:     IsScrolling', 'Boolean', iptr);
19758:     Keystrokes', 'TSynEditKeyStrokes', iptrw);
19759:     MaxUndo', 'Integer', iptrw);
19760:     Options', 'TSynEditorOptions', iptrw);
19761:     OverwriteCaret', 'TSynEditCaretType', iptrw);
19762:     RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
19763:     ScrollHintColor', 'TColor', iptrw);
19764:     ScrollHintFormat', 'TScrollHintFormat', iptrw);
19765:     ScrollBars', 'TScrollStyle', iptrw);
19766:     SelectedColor', 'TSynSelectedColor', iptrw);
19767:     SelectionMode', 'TSynSelectionMode', iptrw);
19768:     ActiveSelectionMode', 'TSynSelectionMode', iptrw);
19769:     TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
19770:     WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
19771:     WordWrapGlyph', 'TSynGlyph', iptrw);
19772:     OnChange', 'TNotifyEvent', iptrw);
19773:     OnClearBookmark', 'TPlaceMarkEvent', iptrw);
19774:     OnCommandProcessed', 'TProcessCommandEvent', iptrw);
19775:     OnContextHelp', 'TContextHelpEvent', iptrw);
19776:     OnDropFiles', 'TDropFilesEvent', iptrw);
19777:     OnGutterClick', 'TGutterClickEvent', iptrw);
19778:     OnGutterGetText', 'TGutterGetTextEvent', iptrw);
19779:     OnGutterPaint', 'TGutterPaintEvent', iptrw);
19780:     OnMouseCursor', 'TMouseCursorEvent', iptrw);
19781:     OnPaint', 'TPaintEvent', iptrw);
19782:     OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
19783:     OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
19784:     OnReplaceText', 'TReplaceTextEvent', iptrw);
19785:     OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
19786:     OnStatusChange', 'TStatusChangeEvent', iptrw);
19787:     OnPaintTransient', 'TPaintTransient', iptrw);
19788:     OnScroll', 'TScrollEvent', iptrw);
19789:   end;
19790: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
19791: Function GetPlaceableHighlighters : TSynHighlighterList
19792: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
19793: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
19794: Procedure GetEditorCommandValues( Proc : TGetStrProc)
19795: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
19796: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
19797: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
19798: Function ConvertCodeStringToExtended( AString : String) : String
19799: Function ConvertExtendedToCodeString( AString : String) : String
19800: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
19801: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
19802: Function IndexToEditorCommand( const AIndex : Integer) : Integer
19803:
19804: TSynEditorOption = (
19805:   eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
19806:   eoAutoIndent,                 //Will indent caret on newlines with same amount of leading whitespace as
19807:                           // preceding line
19808:   eoAutoSizeMaxScrollWidth,     //Automatically resizes the MaxScrollWidth property when inserting text
19809:   eoDisableScrollArrows,        //Disables the scroll bar arrow buttons when you can't scroll in that
19810:                           //direction any more
19811:   eoDragDropEditing,            //Allows to select a block of text and drag it within document to another
19812:                           // location
19813:   eoDropFiles,                  //Allows the editor accept OLE file drops
19814:   eoEnhanceHomeKey,             //enhances home key positioning, similar to visual studio
19815:   eoEnhanceEndKey,              //enhances End key positioning, similar to JDeveloper
19816:   eoGroupUndo,                  //When undoing/redoing actions, handle all continous changes the same kind
19817:                           // in one call
19818:                           //instead undoing/redoing each command separately
19819:   eoHalfPageScroll,             //When scrolling with page-up and page-down commands, only scroll a half
19820:                           //page at a time
19821:   eoHideShowScrollbars,         //if enabled, then scrollbars will only show if necessary.
19822:   If you have ScrollPasteEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
19823:   eoKeepCaretX,                //When moving through lines w/o cursor Past EOL, keeps X position of cursor
19824:   eoNoCaret,                   //Makes it so the caret is never visible
19825:   eoNoSelection,                //Disables selecting text
19826:   eoRightMouseMovesCursor,      //When clicking with right mouse for popup menu, moves cursor to location
19827:   eoScrollByOneLess,            //Forces scrolling to be one less
19828:   eoScrollHintFollows,          //The scroll hint follows the mouse when scrolling vertically
19829:   eoScrollPastEof,              //Allows the cursor to go past the end of file marker
19830:   eoScrollPastEol,              //Allows cursor to go past last character into white space at end of a line
19831:   eoShowScrollHint,             //Shows a hint of the visible line numbers when scrolling vertically
19832:   eoShowSpecialChars,           //Shows the special Characters
19833:   eoSmartTabDelete,             //similar to Smart Tabs, but when you delete characters
19834:   eoSmartTabs,                  //When tabbing, cursor will go to non-white space character of previous line
19835:   eoSpecialLineDefaultFg,       //disables the foreground text color override using OnSpecialLineColor event
19836:   eoTabIndent,                  //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
19837:   eoTabsToSpaces,               //Converts a tab character to a specified number of space characters
19838:   eoTrimTrailingSpaces,         //Spaces at the end of lines will be trimmed and not saved
19839:
19840: *****Important Editor Short Cuts*****;
19841: Double click to select a word and count words with highlightning.
19842: Triple click to select a line.
19843: CTRL+SHIFT+click to extend a selection.

```

```

19844: Drag with the ALT key down to select columns of text !!!
19845: Drag and drop is supported.
19846: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
19847: Type CTRL+A to select all.
19848: Type CTRL+N to set a new line.
19849: Type CTRL+T to delete a line or token. //Tokenizer
19850: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
19851: Type CTRL+Shift+T to add ToDo in line and list.
19852: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
19853: Type CTRL[0..9] to jump or get to bookmarks.
19854: Type Home to position cursor at beginning of current line and End to position it at end of line.
19855: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
19856: Page Up and Page Down work as expected.
19857: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
19858: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
19859:
19860: {# Short Key Positions Ctrl<A-Z>: }
19861: def
19862:   <A> Select All
19863:   <B> Count Words
19864:   <C> Copy
19865:   <D> Internet Start
19866:   <E> Script List
19867:   <F> Find
19868:   <G> Goto
19869:   <H> Mark Line
19870:   <I> Interface List
19871:   <J> Code Completion
19872:   <K> Console
19873:   <L> Interface List Box
19874:   <M> Font Larger -
19875:   <N> New Line
19876:   <O> Open File
19877:   <P> Font Smaller +
19878:   <Q> Quit
19879:   <R> Replace
19880:   <S> Save!
19881:   <T> Delete Line
19882:   <U> Use Case Editor
19883:   <V> Paste
19884:   <W> URI Links
19885:   <X> Reserved for coding use internal
19886:   <Y> Delete Line
19887:   <Z> Undo
19888:
19889: ref
19890:   F1 Help
19891:   F2 Syntax Check
19892:   F3 Search Next
19893:   F4 New Instance
19894:   F5 Line Mark /Breakpoint
19895:   F6 Goto End
19896:   F7 Debug Step Into
19897:   F8 Debug Step Out
19898:   F9 Compile
19899:   F10 Menu
19900:   F11 Word Count Highlight
19901:   F12 Reserved for coding use internal
19902:
19903: def ReservedWords: array[0..82] of string =
19904:   ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
19905:   'constructor', 'default', 'destructor', 'disinterface', 'div', 'do',
19906:   'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
19907:   'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
19908:   'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
19909:   'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
19910:   'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
19911:   'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
19912:   'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
19913:   'uses', 'var', 'while', 'with', 'writeln', 'xor', 'private', 'protected',
19914:   'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
19915: AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ',', ',', t1,t2,t3: boolean;
19916:
19917: //-----
19918: //*****End of mX4 Public Tools API *****
19919: //-----
19920:
19921: Amount of Functions: 12662
19922: Amount of Procedures: 7844
19923: Amount of Constructors: 1275
19924: Totals of Calls: 21781
19925: SHA1: Win 3.9.9.96 1DD18FFE0743F44580AED6765820ACA01DD166FB
19926:
19927: ****
19928: Doc Short Manual with 50 Tips!
19929: ****
19930: - Install: just save your maxboxdef.ini before and then extract the zip file!
19931: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
19932: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
```



```

20022: http://www.scribd.com/max_kleiner
20023: http://www.delphiforfun.org/Programs/Utilities/index.htm
20024: http://www.slideshare.net/maxkleiner1
20025:
20026:
20027:
20028: ****
20029: unit List asm internal end
20030: ****
20031: 01 unit RIRegister_Utils_Routines(exec); //Delphi
20032: 02 unit SIRegister_IdStrings //Indy Sockets
20033: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
20034: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
20035: 05 unit IFSI_WinFormlpuzzle; //maXbox
20036: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
20037: 07 unit RegisterDateTimelibrary_R(exec); //Delphi
20038: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
20039: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
20040: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
20041: 11 unit uPSI_IdTCPConnection; //Indy some functions
20042: 12 unit uPSCompiler.pas; //PS kernel functions
20043: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
20044: 14 unit uPSI_Printers.pas //Delphi VCL
20045: 15 unit uPSI_MPlayer.pas //Delphi VCL
20046: 16 unit uPSC_comobj; //COM Functions
20047: 17 unit uPSI_Clipbrd; //Delphi VCL
20048: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
20049: 19 unit uPSI_SqlExpr; //DBX3
20050: 20 unit uPSI_ADOdb; //ADODB
20051: 21 unit uPSI_StrHlpr; //String Helper Routines
20052: 22 unit uPSI_DateUtils; //Expansion to DateTimelib
20053: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
20054: 24 unit JUutils / gsUtils; //Jedi / Metabase
20055: 25 unit JvFunctions_max; //Jedi Functions
20056: 26 unit HTTPParser; //Delphi VCL
20057: 27 unit HTTPUtil; //Delphi VCL
20058: 28 unit uPSI_XMLUtil; //Delphi VCL
20059: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
20060: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
20061: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
20062: 32 unit uPSI_MyBigInt; //big integer class with Math
20063: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
20064: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
20065: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
20066: 36 unit uPSI_IdHashMessageDigest //Indy Crypto;
20067: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
20068: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
20069: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
20070: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto &OpenSSL;
20071: 41 unit uPSI_FileCtrl; //Delphi RTL
20072: 42 unit uPSI_Outline; //Delphi VCL
20073: 43 unit uPSI_ScktComp; //Delphi RTL
20074: 44 unit uPSI_Calendar; //Delphi VCL
20075: 45 unit uPSI_VListView; //VListView;
20076: 46 unit uPSI_DBGrids; //Delphi VCL
20077: 47 unit uPSI_DBCtrls; //Delphi VCL
20078: 48 unit ide_debugoutput; //maXbox
20079: 49 unit uPSI_ComCtrls; //Delphi VCL
20080: 50 unit uPSC_stdcctrls+; //Delphi VCL
20081: 51 unit uPSI_Dialogs; //Delphi VCL
20082: 52 unit uPSI_StdConvs; //Delphi RTL
20083: 53 unit uPSI_DBClient; //Delphi RTL
20084: 54 unit uPSI_DBPlatform; //Delphi RTL
20085: 55 unit uPSI_Provider; //Delphi RTL
20086: 56 unit uPSI_FMTBcd; //Delphi RTL
20087: 57 unit uPSI_DBGrids; //Delphi VCL
20088: 58 unit uPSI_CDSSUtil; //MIDAS
20089: 59 unit uPSI_VarHlpr; //Delphi RTL
20090: 60 unit uPSI_ExtdLggs; //Delphi VCL
20091: 61 unit sdpStopwatch; //maXbox
20092: 62 unit uPSI_JclStatistics; //JCL
20093: 63 unit uPSI_JclLogic; //JCL
20094: 64 unit uPSI_JclMiscel; //JCL
20095: 65 unit uPSI_JclMath_max; //JCL RTL
20096: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3
20097: 67 unit uPSI_MathUtils; //BCB
20098: 68 unit uPSI_JclMultimedia; //JCL
20099: 69 unit uPSI_WideStrUtils; //Delphi API/RTL
20100: 70 unit uPSI_GraphUtil; //Delphi RTL
20101: 71 unit uPSI_TypeTrans; //Delphi RTL
20102: 72 unit uPSI_HTTPApp; //Delphi VCL
20103: 73 unit uPSI_DBWeb; //Delphi VCL
20104: 74 unit uPSI_DBBdeWeb; //Delphi VCL
20105: 75 unit uPSI_DBXpressWeb; //Delphi VCL
20106: 76 unit uPSI_ShadowWnd; //Delphi VCL
20107: 77 unit uPSI_ToolWin; //Delphi VCL
20108: 78 unit uPSI_Tabs; //Delphi VCL
20109: 79 unit uPSI_JclGraphUtils; //JCL
20110: 80 unit uPSI_JclCounter; //JCL

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20111: 81 unit uPSI_JclSysInfo;                                //JCL
20112: 82 unit uPSI_JclSecurity;                             //JCL
20113: 83 unit uPSI_JclFileUtils;                            //JCL
20114: 84 unit uPSI_IdUserAccounts;                          //Indy
20115: 85 unit uPSI_IdAuthentication;                        //Indy
20116: 86 unit uPSI_uTPLb_AES;                               //LockBox 3
20117: 87 unit uPSI_IdHashSHA1;                             //LockBox 3
20118: 88 unit uTPLb_BlockCipher;                           //LockBox 3
20119: 89 unit uPSI_ValEdit.pas;                            //Delphi VCL
20120: 90 unit uPSI_JvVCLUtils;                            //JCL
20121: 91 unit uPSI_JvDBUtil;                              //JCL
20122: 92 unit uPSI_JvDBUtils;                            //JCL
20123: 93 unit uPSI_JvAppUtils;                           //JCL
20124: 94 unit uPSI_JvCtrlUtils;                           //JCL
20125: 95 unit uPSI_JvFormToHtml;                           //JCL
20126: 96 unit uPSI_JvParsing;                            //JCL
20127: 97 unit uPSI_SerDlg;                               //Toolbox
20128: 98 unit uPSI_Serial;                               //Toolbox
20129: 99 unit uPSI_JvComponent;                           //JCL
20130: 100 unit uPSI_JvCalc;                               //JCL
20131: 101 unit uPSI_JvBdeUtils;                           //JCL
20132: 102 unit uPSI_JvDateUtil;                           //JCL
20133: 103 unit uPSI_JvGenetic;                           //JCL
20134: 104 unit uPSI_JclBase;                            //JCL
20135: 105 unit uPSI_JvUtils;                            //JCL
20136: 106 unit uPSI_JvStringUtil;                         //JCL
20137: 107 unit uPSI_JvStringUtil;                         //JCL
20138: 108 unit uPSI_JvFileUtil;                           //JCL
20139: 109 unit uPSI_JvMemoryInfos;                         //JCL
20140: 110 unit uPSI_JvComputerInfo;                        //JCL
20141: 111 unit uPSI_JvgCommClasses;                        //JCL
20142: 112 unit uPSI_JvgLogics;                           //JCL
20143: 113 unit uPSI_JvLED;                               //JCL
20144: 114 unit uPSI_JvTurtle;                            //JCL
20145: 115 unit uPSI_SortThds; unit uPSI_ThSort;           //maxBox
20146: 116 unit uPSI_JvgUtils;                            //JCL
20147: 117 unit uPSI_JvExprParser;                          //JCL
20148: 118 unit uPSI_HexDump;                            //Borland
20149: 119 unit uPSI_DBLogDlg;                            //VCL
20150: 120 unit uPSI_SqlTimSt;                            //RTL
20151: 121 unit uPSI_JvHtmlParser;                          //JCL
20152: 122 unit uPSI_JvgXMLSerializer;                      //JCL
20153: 123 unit uPSI_JvJCLUtils;                           //JCL
20154: 124 unit uPSI_JvStrings;                            //JCL
20155: 125 unit uPSI_uTPLb_IntegerUtils;                   //TurboPower
20156: 126 unit uPSI_uTPLb_HugeCardinal;                  //TurboPower
20157: 127 unit uPSI_uTPLb_HugeCardinalUtils;              //TurboPower
20158: 128 unit uPSI_SynRegExpr;                           //SynEdit
20159: 129 unit uPSI_StUtils;                            //SysTools4
20160: 130 unit uPSI_StToHTML;                            //SysTools4
20161: 131 unit uPSI_StStrms;                            //SysTools4
20162: 132 unit uPSI_StFIN;                             //SysTools4
20163: 133 unit uPSI_StAstroP;                           //SysTools4
20164: 134 unit uPSI_StStat;                            //SysTools4
20165: 135 unit uPSI_StNetCon;                           //SysTools4
20166: 136 unit uPSI_StDecMth;                           //SysTools4
20167: 137 unit uPSI_StToStr;                            //SysTools4
20168: 138 unit uPSI_StPtrns;                            //SysTools4
20169: 139 unit uPSI_StNetMsg;                           //SysTools4
20170: 140 unit uPSI_StMath;                            //SysTools4
20171: 141 unit uPSI_StExpEng;                           //SysTools4
20172: 142 unit uPSI_StCRC;                            //SysTools4
20173: 143 unit uPSI_StExport;                           //SysTools4
20174: 144 unit uPSI_StExpLog;                           //SysTools4
20175: 145 unit uPSI_ActnList;                           //Delphi VCL
20176: 146 unit uPSI_jpeg;                               //Borland
20177: 147 unit uPSI_StRandom;                           //SysTools4
20178: 148 unit uPSI_StDict;                            //SysTools4
20179: 149 unit uPSI_StBCD;                            //SysTools4
20180: 150 unit uPSI_StTxtDat;                           //SysTools4
20181: 151 unit uPSI_StRegEx;                            //SysTools4
20182: 152 unit uPSI_IMouse;                            //VCL
20183: 153 unit uPSI_SyncObjs;                           //VCL
20184: 154 unit uPSI_AsyncCalls;                          //Hausladen
20185: 155 unit uPSI_ParallelJobs;                        //Saraiva
20186: 156 unit uPSI_Variants;                           //VCL
20187: 157 unit uPSI_VarCmplx;                           //VCL Wolfram
20188: 158 unit uPSI_DTDSchema;                          //VCL
20189: 159 unit uPSI_ShLwApi;                            //Brakel
20190: 160 unit uPSI_IBUtils;                            //VCL
20191: 161 unit uPSI_CheckLst;                           //VCL
20192: 162 unit uPSI_JvSimpleXml;                         //JCL
20193: 163 unit uPSI_JclSimpleXml;                        //JCL
20194: 164 unit uPSI_JvXmlDatabase;                        //JCL
20195: 165 unit uPSI_JvMaxPixel;                           //JCL
20196: 166 unit uPSI_JvItemsSearchs;                      //JCL
20197: 167 unit uPSI_StExpEng2;                           //SysTools4
20198: 168 unit uPSI_StGenLog;                            //SysTools4
20199: 169 unit uPSI_JvLogFile;                           //Jcl

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20200: 170 unit uPSI_CPort;                                //ComPort Lib v4.11
20201: 171 unit uPSI_CPortCtl;                            //ComPort
20202: 172 unit uPSI_CPortEsc;                            //ComPort
20203: 173 unit BarCodeScanner;                           //ComPort
20204: 174 unit uPSI_JvGraph;                            //JCL
20205: 175 unit uPSI_JvComCtrls;                           //JCL
20206: 176 unit uPSI_GUITesting;                           //D Unit
20207: 177 unit uPSI_JvFindFiles;                           //JCL
20208: 178 unit uPSI_StSystem;                            //SysTools4
20209: 179 unit uPSI_JvKeyboardStates;                   //JCL
20210: 180 unit uPSI_JvMail;                             //JCL
20211: 181 unit uPSI_JclConsole;                           //JCL
20212: 182 unit uPSI_JclLANman;                           //JCL
20213: 183 unit uPSI_IdCustomHTTPServer;                 //Indy
20214: 184 unit IdHTTPServer;                            //Indy
20215: 185 unit uPSI_IdTCPServer;                           //Indy
20216: 186 unit uPSI_IdSocketHandle;                     //Indy
20217: 187 unit uPSI_IdIOHandlerSocket;                  //Indy
20218: 188 unit IdIOHandler;                            //Indy
20219: 189 unit uPSI_cutils;                            //Bloodshed
20220: 190 unit uPSI-BoldUtils;                           //boldsoft
20221: 191 unit uPSI_IdSimpleServer;                   //Indy
20222: 192 unit uPSI_IdSSLOpenSSL;                      //Indy
20223: 193 unit uPSI_IdMultipartFormData;                //Indy
20224: 194 unit uPSI_SynURIOpener;                     //SynEdit
20225: 195 unit uPSI_PerlRegEx;                           //PCRE
20226: 196 unit uPSI_IdHeaderList;                      //Indy
20227: 197 unit uPSI_StFirst;                            //SysTools4
20228: 198 unit uPSI_JvCtrls;                            //JCL
20229: 199 unit uPSI_IdTrivialFTPBase;                  //Indy
20230: 200 unit uPSI_IdTrivialFTP;                      //Indy
20231: 201 unit uPSI_IdUDPBase;                           //Indy
20232: 202 unit uPSI_IdUDPClient;                      //Indy
20233: 203 unit uPSI_utypes;                            //for DMath.DLL
20234: 204 unit uPSI_ShellAPI;                           //Borland
20235: 205 unit uPSI_IdRemoteCMDClient;                 //Indy
20236: 206 unit uPSI_IdRemoteCMDServer;                 //Indy
20237: 207 unit IdRexecServer;                           //Indy
20238: 208 unit IdRexec; (unit uPSI_IdRexec;)          //Indy
20239: 209 unit IdUDPServer;                            //Indy
20240: 210 unit IdTimeUDPServer;                         //Indy
20241: 211 unit IdTimeServer;                            //Indy
20242: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;)    //Indy
20243: 213 unit uPSI_IdIPWatch;                           //Indy
20244: 214 unit uPSI_IdIrcServer;                         //Indy
20245: 215 unit uPSI_IdMessageCollection;                //Indy
20246: 216 unit uPSI_cPEM;                             //Fundamentals 4
20247: 217 unit uPSI_cFundamentUtils;                   //Fundamentals 4
20248: 218 unit uPSI_uwinplot;                           //DMath
20249: 219 unit uPSI_xrtl_util_CPUUtils;                //ExtentedRTL
20250: 220 unit uPSI_GR32_System;                        //Graphics32
20251: 221 unit uPSI_cFileUtils;                         //Fundamentals 4
20252: 222 unit uPSI_cDateTime; (timemachine)           //Fundamentals 4
20253: 223 unit uPSI_cTimers; (high precision timer)   //Fundamentals 4
20254: 224 unit uPSI_cRandom;                            //Fundamentals 4
20255: 225 unit uPSI_ueval;                            //DMath
20256: 226 unit uPSI_xrtl_net_URIUtils;                 //ExtendedRTL
20257: 227 unit xrtl_net_URIUtils;                      //ExtendedRTL
20258: 228 unit uPSI_uftf; (FFT)                         //DMath
20259: 229 unit uPSI_DBXChannel;                          //Delphi
20260: 230 unit uPSI_DBXIndyChannel;                    //Delphi Indy
20261: 231 unit uPSI_xrtl_util_COMCat;                  //ExtendedRTL
20262: 232 unit uPSI_xrtl_util_StrUtils;                //ExtendedRTL
20263: 233 unit uPSI_xrtl_util_VariantUtils;            //ExtendedRTL
20264: 234 unit uPSI_xrtl_util_FileUtils;                //ExtendedRTL
20265: 235 unit xrtl_util_Compat;                      //ExtendedRTL
20266: 236 unit uPSI_OleAuto;                            //Borland
20267: 237 unit uPSI_xrtl_util_COMUtils;                //ExtendedRTL
20268: 238 unit uPSI_CmAdmCtl;                           //Borland
20269: 239 unit uPSI_ValEdit2;                           //VCL
20270: 240 unit uPSI_GR32; //Graphics32                //Graphics32
20271: 241 unit uPSI_GR32_Image;                          //Graphics32
20272: 242 unit uPSI_xrtl_util_TimeUtils;                //ExtendedRTL
20273: 243 unit uPSI_xrtl_util_TimeZone;                //ExtendedRTL
20274: 244 unit uPSI_xrtl_util_TimeStamp;                //ExtendedRTL
20275: 245 unit uPSI_xrtl_util_Map;                      //ExtendedRTL
20276: 246 unit uPSI_xrtl_util_Set;                      //ExtendedRTL
20277: 247 unit uPSI_CPortMonitor;                       //ComPort
20278: 248 unit uPSI_StInistm;                           //SysTools4
20279: 249 unit uPSI_GR32_ExtImage;                     //Graphics32
20280: 250 unit uPSI_GR32_OrdinalMaps;                  //Graphics32
20281: 251 unit uPSI_GR32_Rasterizers;                  //Graphics32
20282: 252 unit uPSI_xrtl_util_Exception;                //ExtendedRTL
20283: 253 unit uPSI_xrtl_util_Value;                   //ExtendedRTL
20284: 254 unit uPSI_xrtl_util_Compare;                 //ExtendedRTL
20285: 255 unit uPSI_FlatSB;                            //VCL
20286: 256 unit uPSI_JvAnalogClock;                     //JCL
20287: 257 unit uPSI_JvAlarms;                           //JCL
20288: 258 unit uPSI_JvSQLS;                            //JCL

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20289: 259 unit uPSI_JvDBSecur; //JCL
20290: 260 unit uPSI_JvDBQBE; //JCL
20291: 261 unit uPSI_JvStarfield; //JCL
20292: 262 unit uPSI_JVCLMiscal; //JCL
20293: 263 unit uPSI_JvProfiler32; //JCL
20294: 264 unit uPSI_JvDirectories; //JCL
20295: 265 unit uPSI_JclSchedule; //JCL
20296: 266 unit uPSI_JclSvcCtrl; //JCL
20297: 267 unit uPSI_JvSoundControl; //JCL
20298: 268 unit uPSI_JvBDESQLScript; //JCL
20299: 269 unit uPSI_JvgDigits; //JCL>
20300: 270 unit uPSI_ImgList; //TCustomImageList
20301: 271 unit uPSI_JclMIDI; //JCL>
20302: 272 unit uPSI_JclWinMidi; //JCL>
20303: 273 unit uPSI_JclNTFS; //JCL>
20304: 274 unit uPSI_JclAppInst; //JCL>
20305: 275 unit uPSI_JvRle; //JCL>
20306: 276 unit uPSI_JvRas32; //JCL>
20307: 277 unit uPSI_JvImageDrawThread; //JCL>
20308: 278 unit uPSI_JvImageWindow; //JCL>
20309: 279 unit uPSI_JvTransparentForm; //JCL>
20310: 280 unit uPSI_JvWinDialogs; //JCL>
20311: 281 unit uPSI_JvSimLogic; //JCL>
20312: 282 unit uPSI_JvSimIndicator; //JCL>
20313: 283 unit uPSI_JvSimPID; //JCL>
20314: 284 unit uPSI_JvSimPIDLinker; //JCL>
20315: 285 unit uPSI_IdRFCReply; //Indy
20316: 286 unit uPSI_IdIdent; //Indy
20317: 287 unit uPSI_IdIdentServer; //Indy
20318: 288 unit uPSI_JvPatchFile; //JCL
20319: 289 unit uPSI_StNetPfm; //SysTools4
20320: 290 unit uPSI_StNet; //SysTools4
20321: 291 unit uPSI_JclPeImage; //JCL
20322: 292 unit uPSI_JclPrint; //JCL
20323: 293 unit uPSI_JclMime; //JCL
20324: 294 unit uPSI_JvRichEdit; //JCL
20325: 295 unit uPSI_JvDBRichEd; //JCL
20326: 296 unit uPSI_JvDice; //JCL
20327: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
20328: 298 unit uPSI_JvDirFrm; //JCL
20329: 299 unit uPSI_JvDualList; //JCL
20330: 300 unit uPSI_JvSwitch; //JCL
20331: 301 unit uPSI_JvTimerLst; //JCL
20332: 302 unit uPSI_JvMemTable; //JCL
20333: 303 unit uPSI_JvObjStr; //JCL
20334: 304 unit uPSI_StLArr; //SysTools4
20335: 305 unit uPSI_StWmDCpy; //SysTools4
20336: 306 unit uPSI_StText; //SysTools4
20337: 307 unit uPSI_StNTLog; //SysTools4
20338: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
20339: 309 unit uPSI_JvImagPrvw; //JCL
20340: 310 unit uPSI_JvFormPatch; //JCL
20341: 311 unit uPSI_JvPicClip; //JCL
20342: 312 unit uPSI_JvDataConv; //JCL
20343: 313 unit uPSI_JvCpuUsage; //JCL
20344: 314 unit uPSI_JclUnitConv_mx2; //JCL
20345: 315 unit JvDualListForm; //JCL
20346: 316 unit uPSI_JvCpuUsage2; //JCL
20347: 317 unit uPSI_JvParserForm; //JCL
20348: 318 unit uPSI_JvJanTreeView; //JCL
20349: 319 unit uPSI_JvTransLED; //JCL
20350: 320 unit uPSI_JvPlaylist; //JCL
20351: 321 unit uPSI_JvFormAutoSize; //JCL
20352: 322 unit uPSI_JvYearGridEditForm; //JCL
20353: 323 unit uPSI_JvMarkupCommon; //JCL
20354: 324 unit uPSI_JvChart; //JCL
20355: 325 unit uPSI_JvXPCore; //JCL
20356: 326 unit uPSI_JvXPCoreUtils; //JCL
20357: 327 unit uPSI_StatsClasses; //mX4
20358: 328 unit uPSI_ExtCtrls2; //VCL
20359: 329 unit uPSI_JvUrlGrabbers; //JCL
20360: 330 unit uPSI_JvXmlTree; //JCL
20361: 331 unit uPSI_JvWavePlayer; //JCL
20362: 332 unit uPSI_JvUnicodeCanvas; //JCL
20363: 333 unit uPSI_JvTFUUtils; //JCL
20364: 334 unit uPSI_IdServerIOHandler; //Indy
20365: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
20366: 336 unit uPSI_IdMessageCoder; //Indy
20367: 337 unit uPSI_IdMessageCoderMIME; //Indy
20368: 338 unit uPSI_IdMIMETypes; //Indy
20369: 339 unit uPSI_JvConverter; //JCL
20370: 340 unit uPSI_JvCsvParse; //JCL
20371: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
20372: 342 unit uPSI_ExcelExport;(Nat:TJsExcelExport) //JCL
20373: 343 unit uPSI_JvDBGGridExport; //JCL
20374: 344 unit uPSI_JvgExport; //JCL
20375: 345 unit uPSI_JvSerialMaker; //JCL
20376: 346 unit uPSI_JvWin32; //JCL
20377: 347 unit uPSI_JvPaintFX; //JCL

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20378: 348 unit uPSI_JvOracleDataSet; (beta)           //JCL
20379: 349 unit uPSI_JvValidators; (preview)          //JCL
20380: 350 unit uPSI_JvNTEventLog;                   //JCL
20381: 351 unit uPSI_ShellZipTool;                  //mX4
20382: 352 unit uPSI_JvJoystick;                   //JCL
20383: 353 unit uPSI_JvMailSlots;                  //JCL
20384: 354 unit uPSI_JclComplex;                  //JCL
20385: 355 unit uPSI_SynPdf;                      //Synopse
20386: 356 unit uPSI_Registry;                    //VCL
20387: 357 unit uPSI_TlHelp32;                    //VCL
20388: 358 unit uPSI_JclRegistry;                 //JCL
20389: 359 unit uPSI_JvAirBrush;                  //JCL
20390: 360 unit uPSI_mORMotReport;                //Synopse
20391: 361 unit uPSI_JclLocales;                 //JCL
20392: 362 unit uPSI_SynEdit;                     //SynEdit
20393: 363 unit uPSI_SynEditTypes;                //SynEdit
20394: 364 unit uPSI_SynMacroRecorder;            //SynEdit
20395: 365 unit uPSI_LongIntList;                 //SynEdit
20396: 366 unit uPSI_devutils;                   //DevC
20397: 367 unit uPSI_SynEditMiscClasses;          //SynEdit
20398: 368 unit uPSI_SynEditRegexSearch;          //SynEdit
20399: 369 unit uPSI_SynEditHighlighter;          //SynEdit
20400: 370 unit uPSI_SynHighlighterPas;          //SynEdit
20401: 371 unit uPSI_JvSearchFiles;               //JCL
20402: 372 unit uPSI_SynHighlighterAny;            //Lazarus
20403: 373 unit uPSI_SynEditKeyCmds;              //SynEdit
20404: 374 unit uPSI_SynEditMiscProcs;            //SynEdit
20405: 375 unit uPSI_SynEditKbdHandler;          //SynEdit
20406: 376 unit uPSI_JvAppInst;                  //JCL
20407: 377 unit uPSI_JvAppEvent;                 //JCL
20408: 378 unit uPSI_JvAppCommand;               //JCL
20409: 379 unit uPSI_JvAnimTitle;                //JCL
20410: 380 unit uPSI_JvAnimatedImage;            //JCL
20411: 381 unit uPSI_SynEditExport;              //SynEdit
20412: 382 unit uPSI_SynExportHTML;              //SynEdit
20413: 383 unit uPSI_SynExportRTF;              //SynEdit
20414: 384 unit uPSI_SynEditSearch;              //SynEdit
20415: 385 unit uPSI_fMain_back;                //maxBox;
20416: 386 unit uPSI_JvZoom;                   //JCL
20417: 387 unit uPSI_PMrand;                  //PM
20418: 388 unit uPSI_JvSticker;                //JCL
20419: 389 unit uPSI_XmlVerySimple;            //mX4
20420: 390 unit uPSI_Services;                 //ExtPascal
20421: 391 unit uPSI_ExtPascalUtils;            //ExtPascal
20422: 392 unit uPSI_SocketsDelphi;            //ExtPascal
20423: 393 unit uPSI_StBarC;                  //SysTools
20424: 394 unit uPSI_StDbBarC;                //SysTools
20425: 395 unit uPSI_StBarPN;                  //SysTools
20426: 396 unit uPSI_StDbPNBC;                //SysTools
20427: 397 unit uPSI_StDb2DBC;                //SysTools
20428: 398 unit uPSI_StMoney;                 //SysTools
20429: 399 unit uPSI_JvForth;                  //JCL
20430: 400 unit uPSI_RestRequest;              //mX4
20431: 401 unit uPSI_HttpRESTConnectionIndy;    //mX4
20432: 402 unit uPSI_JvXmlDatabase;             //JCL
20433: 403 unit uPSI_StAstro;                 //SysTools
20434: 404 unit uPSI_StSort;                  //SysTools
20435: 405 unit uPSI_StDate;                  //SysTools
20436: 406 unit uPSI_StDateSt;                //SysTools
20437: 407 unit uPSI_StBase;                  //SysTools
20438: 408 unit uPSI_StVInfo;                 //SysTools
20439: 409 unit uPSI_JvBrowseFolder;            //JCL
20440: 410 unit uPSI_JvBoxProcs;               //JCL
20441: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
20442: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
20443: 413 unit uPSI_JvHighlighter;            //JCL
20444: 414 unit uPSI_Diff;                   //mX4
20445: 415 unit uPSI_SpringWinAPI;            //DSpring
20446: 416 unit uPSI_StBits;                  //SysTools
20447: 417 unit uPSI_TomDBQue;                //mX4
20448: 418 unit uPSI_MultilangTranslator;      //mX4
20449: 419 unit uPSI_HyperLabel;              //mX4
20450: 420 unit uPSI_Starter;                //mX4
20451: 421 unit uPSI_FileAssocs;             //devC
20452: 422 unit uPSI_devFileMonitorX;          //devC
20453: 423 unit uPSI_devrun;                 //devC
20454: 424 unit uPSI_devExec;                //devC
20455: 425 unit uPSI_oysUtils;               //devC
20456: 426 unit uPSI_DosCommand;             //devC
20457: 427 unit uPSI_CppTokenizer;            //devC
20458: 428 unit uPSI_JvHLParser;              //devC
20459: 429 unit uPSI_JclMapi;                //JCL
20460: 430 unit uPSI_JclShell;                //JCL
20461: 431 unit uPSI_JclCOM;                 //JCL
20462: 432 unit uPSI_GR32_Math;              //Graphics32
20463: 433 unit uPSI_GR32_LowLevel;           //Graphics32
20464: 434 unit uPSI_SimpleHl;                //mX4
20465: 435 unit uPSI_GR32_Filters;            //Graphics32
20466: 436 unit uPSI_GR32_VectorMaps;         //Graphics32

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20467: 437 unit uPSI_cXMLFunctions;                                //Fundamentals 4
20468: 438 unit uPSI_JvTimer;                                     //JCL
20469: 439 unit uPSI_cHTTPUtils;                                  //Fundamentals 4
20470: 440 unit uPSI_cTLSUtils;                                  //Fundamentals 4
20471: 441 unit uPSI_JclGraphics;                                 //JCL
20472: 442 unit uPSI_JclSynch;                                   //JCL
20473: 443 unit uPSI_IdTelnet;                                  //Indy
20474: 444 unit uPSI_IdTelnetServer,                            //Indy
20475: 445 unit uPSI_IdEcho,                                    //Indy
20476: 446 unit uPSI_IdEchoServer,                             //Indy
20477: 447 unit uPSI_IdEchoUDP,                                //Indy
20478: 448 unit uPSI_IdEchoUDPServer,                          //Indy
20479: 449 unit uPSI_IdSocks,                                   //Indy
20480: 450 unit uPSI_IdAntiFreezeBase;                         //Indy
20481: 451 unit uPSI_IdHostnameServer;                         //Indy
20482: 452 unit uPSI_IdTunnelCommon,                           //Indy
20483: 453 unit uPSI_IdTunnelMaster,                           //Indy
20484: 454 unit uPSI_IdTunnelSlave,                            //Indy
20485: 455 unit uPSI_IdRSH,                                    //Indy
20486: 456 unit uPSI_IdRSHServer,                            //Indy
20487: 457 unit uPSI_Spring_Cryptography_Utils;               //Spring4Delphi
20488: 458 unit uPSI_MapReader,                                //devC
20489: 459 unit uPSI_LibTar,                                   //devC
20490: 460 unit uPSI_IdStack;                                 //Indy
20491: 461 unit uPSI_IdBlockCipherIntercept;                  //Indy
20492: 462 unit uPSI_IdChargenServer;                         //Indy
20493: 463 unit uPSI_IdFTPServer,                            //Indy
20494: 464 unit uPSI_IdException,                            //Indy
20495: 465 unit uPSI_utexplot;                               //DMath
20496: 466 unit uPSI_uwinstr;                                //DMath
20497: 467 unit uPSI_VarRecUtils;                            //devC
20498: 468 unit uPSI_JvStringListToHtml,                      //JCL
20499: 469 unit uPSI_JvStringHolder,                          //JCL
20500: 470 unit uPSI_IdCoder;                                //Indy
20501: 471 unit uPSI_SynHighlighterDfm;                     //Synedit
20502: 472 unit uHighlighterProcs; in 471                  //Synedit
20503: 473 unit uPSI_LazFileUtils;                           //LCL
20504: 474 unit uPSI_IDECmdLine;                            //LCL
20505: 475 unit uPSI_lazMasks;                             //LCL
20506: 476 unit uPSI_ip_misc;                             //mX4
20507: 477 unit uPSI_Barcde;                                //LCL
20508: 478 unit uPSI_SimpleXML;                            //LCL
20509: 479 unit uPSI_JclIniFiles;                          //JCL
20510: 480 unit uPSI_D2XXUnit; { $X- }                     //FTDI
20511: 481 unit uPSI_JclDateTime;                           //JCL
20512: 482 unit uPSI_JclEDI;                                //JCL
20513: 483 unit uPSI_JclMiscel2;                           //JCL
20514: 484 unit uPSI_JclValidation;                         //JCL
20515: 485 unit uPSI_JclAnsiStrings; {-PString}           //JCL
20516: 486 unit uPSI_SynEditMiscProcs2;                   //Synedit
20517: 487 unit uPSI_JclStreams;                           //JCL
20518: 488 unit uPSI_QRCode;                                //mX4
20519: 489 unit uPSI_BlockSocket;                          //ExtPascal
20520: 490 unit uPSI_Masks_Utils;                          //VCL
20521: 491 unit uPSI_synautil;                            //Synapse!
20522: 492 unit uPSI_JclMath_Class;                        //JCL RTL
20523: 493 unit ugamdist; //Gamma function                //DMath
20524: 494 unit uibeta, ucorrel; //IBeta                 //DMath
20525: 495 unit uPSI_SRMgr;                                //mX4
20526: 496 unit uPSI_HotLog;                                //mX4
20527: 497 unit uPSI_DebugBox;                            //mX4
20528: 498 unit uPSI_ustrings;                            //DMath
20529: 499 unit uPSI_uregtest;                            //DMath
20530: 500 unit uPSI_usimplex;                            //DMath
20531: 501 unit uPSI_uhyper;                                //DMath
20532: 502 unit uPSI_IdHL7;                                //Indy
20533: 503 unit uPSI_IdIPMCastBase;                      //Indy
20534: 504 unit uPSI_IdIPMCastServer;                    //Indy
20535: 505 unit uPSI_IdIPMCastClient;                    //Indy
20536: 506 unit uPSI_unlfit; //nlregression             //DMath
20537: 507 unit uPSI_IdRawHeaders;                        //Indy
20538: 508 unit uPSI_IdRawClient;                        //Indy
20539: 509 unit uPSI_IdRawFunctions;                     //Indy
20540: 510 unit uPSI_IdTCPStream;                        //Indy
20541: 511 unit uPSI_IdSNPP;                            //Indy
20542: 512 unit uPSI_St2DBarC;                           //SysTools
20543: 513 unit uPSI_ImageWin; //FTL                   //VCL
20544: 514 unit uPSI_CustomDrawTreeView; //FTL            //VCL
20545: 515 unit uPSI_GraphWin; //FTL                   //VCL
20546: 516 unit uPSI_actionMain; //FTL                  //VCL
20547: 517 unit uPSI_StSpawn;                            //SysTools
20548: 518 unit uPSI_CtlPanel;                            //VCL
20549: 519 unit uPSI_IdLPR;                                //Indy
20550: 520 unit uPSI_SockRequestInterpreter;              //Indy
20551: 521 unit uPSI_ulambert;                            //DMath
20552: 522 unit uPSI_ucholesk;                            //DMath
20553: 523 unit uPSI_SimpleDS;                            //VCL
20554: 524 unit uPSI_DBXSqlScanner;                      //VCL
20555: 525 unit uPSI_DBXMetaDataUtil;                    //VCL

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20556: 526 unit uPSI_Chart; //TEE
20557: 527 unit uPSI_TeeProcs; //TEE
20558: 528 unit mXBDEUtils; //mX4
20559: 529 unit uPSI_MDIEdit; //VCL
20560: 530 unit uPSI_CopyPrsr; //VCL
20561: 531 unit uPSI_SockApp; //VCL
20562: 532 unit uPSI_AppEvnts; //VCL
20563: 533 unit uPSI_ExtActns; //VCL
20564: 534 unit uPSI_TeEngine; //TEE
20565: 535 unit uPSI_CoolMain; //browser //VCL
20566: 536 unit uPSI_StCRC; //SysTools
20567: 537 unit uPSI_StDecMth2; //SysTools
20568: 538 unit uPSI_frmExportMain; //Synedit
20569: 539 unit uPSI_SynDBEdit; //Synedit
20570: 540 unit uPSI_SynEditWildcardSearch; //Synedit
20571: 541 unit uPSI_BoldComUtils; //BOLD
20572: 542 unit uPSI_BoldIsoDateTime; //BOLD
20573: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
20574: 544 unit uPSI_BoldXMLRequests; //BOLD
20575: 545 unit uPSI_BoldStringList; //BOLD
20576: 546 unit uPSI_BoldfileHandler; //BOLD
20577: 547 unit uPSI_BoldContainers; //BOLD
20578: 548 unit uPSI_BoldQueryUserDlg; //BOLD
20579: 549 unit uPSI_BoldWinINet; //BOLD
20580: 550 unit uPSI_BoldQueue; //BOLD
20581: 551 unit uPSI_JvPcx; //JCL
20582: 552 unit uPSI_IdWhois; //Indy
20583: 553 unit uPSI_IdWhoIsServer; //Indy
20584: 554 unit uPSI_IdGopher; //Indy
20585: 555 unit uPSI_IdDateTimeStamp; //Indy
20586: 556 unit uPSI_IdDayTimeServer; //Indy
20587: 557 unit uPSI_IdDayTimeUDP; //Indy
20588: 558 unit uPSI_IdDayTimeUDPServer; //Indy
20589: 559 unit uPSI_IdDICTServer; //Indy
20590: 560 unit uPSI_IdDiscardServer; //Indy
20591: 561 unit uPSI_IdDiscardUDPServer; //Indy
20592: 562 unit uPSI_IdMappedFTP; //Indy
20593: 563 unit uPSI_IdMappedPortTCP; //Indy
20594: 564 unit uPSI_IdGopherServer; //Indy
20595: 565 unit uPSI_IdQotdServer; //Indy
20596: 566 unit uPSI_JvRgbToHtml; //JCL
20597: 567 unit uPSI_JvRemLog; //JCL
20598: 568 unit uPSI_JvSysComp; //JCL
20599: 569 unit uPSI_JvTMTL; //JCL
20600: 570 unit uPSI_JvWinampAPI; //JCL
20601: 571 unit uPSI_MSysUtils; //mX4
20602: 572 unit uPSI_ESBMaths; //ESB
20603: 573 unit uPSI_ESBMaths2; //ESB
20604: 574 unit uPSI_uLkJSON; //Lk
20605: 575 unit uPSI_ZURL; //Zeos
20606: 576 unit uPSI_ZSysUtils; //Zeos
20607: 577 unit unaUtils internals //UNA
20608: 578 unit uPSI_ZMatchPattern; //Zeos
20609: 579 unit uPSI_ZClasses; //Zeos
20610: 580 unit uPSI_ZCollections; //Zeos
20611: 581 unit uPSI_ZEncoding; //Zeos
20612: 582 unit uPSI_IdRawBase; //Indy
20613: 583 unit uPSI_IdNTLM; //Indy
20614: 584 unit uPSI_IdNNTP; //Indy
20615: 585 unit uPSI_usniffer; //PortScanForm //mX4
20616: 586 unit uPSI_IdCoderMIME; //Indy
20617: 587 unit uPSI_IdCoderUUE; //Indy
20618: 588 unit uPSI_IdCoderXXE; //Indy
20619: 589 unit uPSI_IdCoder3to4; //Indy
20620: 590 unit uPSI_IdCookie; //Indy
20621: 591 unit uPSI_IdCookieManager; //Indy
20622: 592 unit uPSI_WDOSocketUtils; //WDOS
20623: 593 unit uPSI_WDOSPlcUtils; //WDOS
20624: 594 unit uPSI_WDOSPorts; //WDOS
20625: 595 unit uPSI_WDOSResolvers; //WDOS
20626: 596 unit uPSI_WDOSTimers; //WDOS
20627: 597 unit uPSI_WDOSPlcs; //WDOS
20628: 598 unit uPSI_WDOSPneumatics; //WDOS
20629: 599 unit uPSI_IdFingerServer; //Indy
20630: 600 unit uPSI_IdDNSResolver; //Indy
20631: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy
20632: 602 unit uPSI_IdIntercept; //Indy
20633: 603 unit uPSI_IdIPMCastBase; //Indy
20634: 604 unit uPSI_IdLogBase; //Indy
20635: 605 unit uPSI_IdIOHandlerStream; //Indy
20636: 606 unit uPSI_IdMappedPortUDP; //Indy
20637: 607 unit uPSI_IdQOTDUDPServer; //Indy
20638: 608 unit uPSI_IdQOTDUDP; //Indy
20639: 609 unit uPSI_IdSysLog; //Indy
20640: 610 unit uPSI_IdSysLogServer; //Indy
20641: 611 unit uPSI_IdSysLogMessage; //Indy
20642: 612 unit uPSI_IdTimeServer; //Indy
20643: 613 unit uPSI_IdTimeUDP; //Indy
20644: 614 unit uPSI_IdTimeUDPServer; //Indy

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20645: 615 unit uPSI_IdUserAccounts;                                //Indy
20646: 616 unit uPSI_TextUtils;                                     //mX4
20647: 617 unit uPSI_MandelbrotEngine;                               //mX4
20648: 618 unit uPSI_delphi_arduino_Unit1;                            //mX4
20649: 619 unit uPSI_DTDSchema2;                                    //mX4
20650: 620 unit uPSI_fpplotMain;                                   //DMath
20651: 621 unit uPSI_FindFileIter;                                  //mX4
20652: 622 unit uPSI_PppState;  (JclStrHashMap)                      //PPP
20653: 623 unit uPSI_PppParser;                                    //PPP
20654: 624 unit uPSI_PppLexer;                                    //PPP
20655: 625 unit uPSI_PcharUtils;                                 //PPP
20656: 626 unit uPSI_uJSON;                                       //WU
20657: 627 unit uPSI_JclStrHashMap;                                //JCL
20658: 628 unit uPSI_JclHookExcept;                                //JCL
20659: 629 unit uPSI_EncdDecd;                                    //VCL
20660: 630 unit uPSI_SockAppReg;                                 //VCL
20661: 631 unit uPSI_PJFileHandle;                                //PJ
20662: 632 unit uPSI_PJEnvVars;                                 //PJ
20663: 633 unit uPSI_PJPipe;                                    //PJ
20664: 634 unit uPSI_PJPipeFilters;                               //PJ
20665: 635 unit uPSI_PJConsoleApp;                               //PJ
20666: 636 unit uPSI_UConsoleAppEx;                             //PJ
20667: 637 unit uPSI_DbSocketChannelNative;                         //VCL
20668: 638 unit uPSI_DbxDDataGenerator;                           //VCL
20669: 639 unit uPSI_DBXClient;                                  //VCL
20670: 640 unit uPSI_IdLogEvent;                                 //Indy
20671: 641 unit uPSI_Reversi;                                    //mX4
20672: 642 unit uPSI_Geometry;                                  //mX4
20673: 643 unit uPSI_IdSMTPServer;                               //Indy
20674: 644 unit uPSI_Textures;                                 //mX4
20675: 645 unit uPSI_IBX;                                      //VCL
20676: 646 unit uPSI_IWDBCommon;                                //VCL
20677: 647 unit uPSI_SortGrid;                                 //mX4
20678: 648 unit uPSI_IB;                                       //VCL
20679: 649 unit uPSI_IBScript;                                 //VCL
20680: 650 unit uPSI_JvCSVBaseControls;                          //JCL
20681: 651 unit uPSI_Jvg3DColors;                               //JCL
20682: 652 unit uPSI_JvHLEditor; //beat                         //JCL
20683: 653 unit uPSI_JvShellHook;                               //JCL
20684: 654 unit uPSI_DBCommon2;                                //VCL
20685: 655 unit uPSI_JvSHfileOperation;                          //JCL
20686: 656 unit uPSI_uFileexport;                               //mX4
20687: 657 unit uPSI_JvDialogs;                                //JCL
20688: 658 unit uPSI_JvDBTreeView;                               //JCL
20689: 659 unit uPSI_JvDBUltimGrid;                            //JCL
20690: 660 unit uPSI_JvDBQueryParamsForm;                        //JCL
20691: 661 unit uPSI_JvExControls;                             //JCL
20692: 662 unit uPSI_JvBDEMemTable;                            //JCL
20693: 663 unit uPSI_JvCommStatus;                            //JCL
20694: 664 unit uPSI_JvMailSlots2;                            //JCL
20695: 665 unit uPSI_JvgWinMask;                               //JCL
20696: 666 unit uPSI_StEclpse;                                //SysTools
20697: 667 unit uPSI_StMime;                                  //SysTools
20698: 668 unit uPSI_StList;                                  //SysTools
20699: 669 unit uPSI_StMerge;                                //SysTools
20700: 670 unit uPSI_StStrs;                                 //SysTools
20701: 671 unit uPSI_StTree;                                 //SysTools
20702: 672 unit uPSI_StVArr;                                 //SysTools
20703: 673 unit uPSI_StRegIni;                               //SysTools
20704: 674 unit uPSI_urkf;                                  //DMath
20705: 675 unit uPSI_usvd;                                  //DMath
20706: 676 unit uPSI_DepWalkUtils;                           //JCL
20707: 677 unit uPSI_OptionsFrm;                            //JCL
20708: 678 unit yuvconverts;                                //mX4
20709: 679 uPSI_JvPropAutoSave;                            //JCL
20710: 680 uPSI_AclAPI;                                   //alcinoe
20711: 681 uPSI_AviCap;                                   //alcinoe
20712: 682 uPSI_ALAVLBinaryTree;                           //alcinoe
20713: 683 uPSI_ALFcMisc;                                 //alcinoe
20714: 684 uPSI_ALStringList;                            //alcinoe
20715: 685 uPSI_ALQuickSortList;                           //alcinoe
20716: 686 uPSI_ALStaticText;                            //alcinoe
20717: 687 uPSI_ALJSONDoc;                               //alcinoe
20718: 688 uPSI_ALGSMComm;                               //alcinoe
20719: 689 uPSI_ALWindows;                               //alcinoe
20720: 690 uPSI_ALMultiPartFormDataParser;                //alcinoe
20721: 691 uPSI_ALHttpCommon;                            //alcinoe
20722: 692 uPSI_ALWebSpider;                            //alcinoe
20723: 693 uPSI_ALHttpClient;                           //alcinoe
20724: 694 uPSI_ALFcHTML;                                //alcinoe
20725: 695 uPSI_ALFTPClient;                            //alcinoe
20726: 696 uPSI_ALInternetMessageCommon;                //alcinoe
20727: 697 uPSI_ALWininetHttpClient;                     //alcinoe
20728: 698 uPSI_ALWinInetFTPClient;                      //alcinoe
20729: 699 uPSI_ALWinHttpWrapper;                        //alcinoe
20730: 700 uPSI_ALWinHttpClient;                          //alcinoe
20731: 701 uPSI_ALFcWinSock;                            //alcinoe
20732: 702 uPSI_ALFcSQL;                                //alcinoe
20733: 703 uPSI_ALFcCGI;                                //alcinoe

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20734: 704 uPSI_ALFcnExecute; //alcinoe
20735: 705 uPSI_ALFcnFile; //alcinoe
20736: 706 uPSI_ALFcnMime; //alcinoe
20737: 707 uPSI_ALPhpRunner; //alcinoe
20738: 708 uPSI_ALGraphic; //alcinoe
20739: 709 uPSI_ALIniFiles; //alcinoe
20740: 710 uPSI_ALMemCachedClient; //alcinoe
20741: 711 unit uPSI_MyGrids; //mX4
20742: 712 uPSI_ALMultiPartMixedParser //alcinoe
20743: 713 uPSI_ALSMTPClient //alcinoe
20744: 714 uPSI_ALNNTPClient; //alcinoe
20745: 715 uPSI_ALHintBalloon; //alcinoe
20746: 716 unit uPSI_ALXmlDoc; //alcinoe
20747: 717 unit uPSI_IPCThrd; //VCL
20748: 718 unit uPSI_MonForm; //VCL
20749: 719 unit uPSI_TeCanvas; //Orpheus
20750: 720 unit uPSI_Ovcmisc; //Orpheus
20751: 721 unit uPSI_ovcfiler; //Orpheus
20752: 722 unit uPSI_ovcstate; //Orpheus
20753: 723 unit uPSI_ovccoco; //Orpheus
20754: 724 unit uPSI_ovcrvexp; //Orpheus
20755: 725 unit uPSI_OvcFormatSettings; //Orpheus
20756: 726 unit uPSI_OvcUtils; //Orpheus
20757: 727 unit uPSI_ovcstore; //Orpheus
20758: 728 unit uPSI_ovcstr; //Orpheus
20759: 729 unit uPSI_ovcmru; //Orpheus
20760: 730 unit uPSI_ovccmd; //Orpheus
20761: 731 unit uPSI_ovctimer; //Orpheus
20762: 732 unit uPSI_ovcintl; //Orpheus
20763: 733 uPSI_AfCircularBuffer; //AsyncFree
20764: 734 uPSI_AfUtils; //AsyncFree
20765: 735 uPSI_AfSafeSync; //AsyncFree
20766: 736 uPSI_AfComPortCore; //AsyncFree
20767: 737 uPSI_AfComPort; //AsyncFree
20768: 738 uPSI_AfPortControls; //AsyncFree
20769: 739 uPSI_AfDataDispatcher; //AsyncFree
20770: 740 uPSI_AfViewers; //AsyncFree
20771: 741 uPSI_AfDataTerminal; //AsyncFree
20772: 742 uPSI_SimplePortMain; //AsyncFree
20773: 743 unit uPSI_ovcclock; //Orpheus
20774: 744 unit uPSI_o32intlst; //Orpheus
20775: 745 unit uPSI_o32ledlabel; //Orpheus
20776: 746 unit uPSI_ALMySqlClient; //alcinoe
20777: 747 unit uPSI_ALFBXClient; //alcinoe
20778: 748 unit uPSI_ALFcnSQL; //alcinoe
20779: 749 unit uPSI_AsyncTimer; //mX4
20780: 750 unit uPSI_ApplicationFileIO; //mX4
20781: 751 unit uPSI_PsAPI; //VCLé
20782: 752 uPSI_ovcurl; //Orpheus
20783: 753 uPSI_ovcurl; //Orpheus
20784: 754 uPSI_ovcvlib; //Orpheus
20785: 755 uPSI_ovccolor; //Orpheus
20786: 756 uPSI_ALFBXLib; //alcinoe
20787: 757 uPSI_ovcmeter; //Orpheus
20788: 758 uPSI_ovcpeakm; //Orpheus
20789: 759 uPSI_O32BGSty; //Orpheus
20790: 760 uPSI_ovcBidi; //Orpheus
20791: 761 uPSI_ovctcarry; //Orpheus
20792: 762 uPSI_DXPUtils; //mX4
20793: 763 uPSI_ALMultiPartBaseParser; //alcinoe
20794: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
20795: 765 uPSI_ALPOP3Client; //alcinoe
20796: 766 uPSI_SmallUtils; //mX4
20797: 767 uPSI_MakeApp; //mX4
20798: 768 uPSI_O32MouseMon; //Orpheus
20799: 769 uPSI_OvcCache; //Orpheus
20800: 770 uPSI_ovccalc; //Orpheus
20801: 771 uPSI_Joystick; //OpenGL
20802: 772 uPSI_ScreenSaver; //OpenGL
20803: 773 uPSI_XCollection; //OpenGL
20804: 774 uPSI_Polynomials; //OpenGL
20805: 775 uPSI_PersistentClasses, //9.86 //OpenGL
20806: 776 uPSI_VectorLists; //OpenGL
20807: 777 uPSI_XOpenGL; //OpenGL
20808: 778 uPSI_MeshUtils; //OpenGL
20809: 779 unit uPSI_JclSysUtils; //JCL
20810: 780 unit uPSI_JclBorlandTools; //JCL
20811: 781 unit JclFileUtils_max; //JCL
20812: 782 uPSI_AfDataControls; //AsyncFree
20813: 783 uPSI_GLSilhouette; //OpenGL
20814: 784 uPSI_JclSysUtils_class; //JCL
20815: 785 uPSI_JclFileUtils_class; //JCL
20816: 786 uPSI_FileUtil; //JCL
20817: 787 uPSI_changefind; //mX4
20818: 788 uPSI_CmdIntf; //mX4
20819: 789 uPSI_fservice; //mX4
20820: 790 uPSI_Keyboard; //OpenGL
20821: 791 uPSI_VRMLParser; //OpenGL
20822: 792 uPSI_GLFileVRML; //OpenGL

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20823: 793 uPSI_Octree; //OpenGL
20824: 794 uPSI_GLPolyhedron, //OpenGL
20825: 795 uPSI_GLCrossPlatform; //OpenGL
20826: 796 uPSI_GLParticles; //OpenGL
20827: 797 uPSI_GLNavigator; //OpenGL
20828: 798 uPSI_GLStarRecord; //OpenGL
20829: 799 uPSI_GLTextureCombiners; //OpenGL
20830: 800 uPSI_GLCanvas; //OpenGL
20831: 801 uPSI_GeometryBB; //OpenGL
20832: 802 uPSI_GeometryCoordinates; //OpenGL
20833: 803 uPSI_VectorGeometry; //OpenGL
20834: 804 uPSI_BumpMapping; //OpenGL
20835: 805 uPSI_TGA; //OpenGL
20836: 806 uPSI_GLVectorFileObjects; //OpenGL
20837: 807 uPSI_IMM; //VCL
20838: 808 uPSI_CategoryButtons; //VCL
20839: 809 uPSI_ButtonGroup; //VCL
20840: 810 uPSI_DbExcept; //VCL
20841: 811 uPSI_AxCtrls; //VCL
20842: 812 uPSI_GL_actorUnit1; //OpenGL
20843: 813 uPSI_StdVCL; //VCL
20844: 814 unit CurvesAndSurfaces; //OpenGL
20845: 815 uPSI_DataAwareMain; //AsyncFree
20846: 816 uPSI_TabNotBk; //VCL
20847: 817 uPSI_udwsfiler; //mX4
20848: 818 uPSI_synaip; //Synapse!
20849: 819 uPSI_synacode; //Synapse
20850: 820 uPSI_synachar; //Synapse
20851: 821 uPSI_synamisc; //Synapse
20852: 822 uPSI_synaser; //Synapse
20853: 823 uPSI_synaicnv; //Synapse
20854: 824 uPSI_tlntsend; //Synapse
20855: 825 uPSI_pingsend; //Synapse
20856: 826 uPSI_blksock; //Synapse
20857: 827 uPSI_asn1util; //Synapse
20858: 828 uPSI_dnssend; //Synapse
20859: 829 uPSI_clamsend; //Synapse
20860: 830 uPSI_ldapsend; //Synapse
20861: 831 uPSI_mimemess; //Synapse
20862: 832 uPSI_slogsend; //Synapse
20863: 833 uPSI_mimepart; //Synapse
20864: 834 uPSI_mimeinln; //Synapse
20865: 835 uPSI_ftpsend; //Synapse
20866: 836 uPSI_ftptsend; //Synapse
20867: 837 uPSI_httpsend; //Synapse
20868: 838 uPSI_sntpsend; //Synapse
20869: 839 uPSI_smtpsend; //Synapse
20870: 840 uPSI_snmpsend; //Synapse
20871: 841 uPSI_imapsend; //Synapse
20872: 842 uPSI_pop3send; //Synapse
20873: 843 uPSI_nntpsend; //Synapse
20874: 844 uPSI_ssl_cryptlib; //Synapse
20875: 845 uPSI_ssl_openssl; //Synapse
20876: 846 uPSI_synhttp_daemon; //Synapse
20877: 847 uPSI_NetWork; //mX4
20878: 848 uPSI_PingThread; //Synapse
20879: 849 uPSI_JvThreadTimer; //JCL
20880: 850 unit uPSI_wwSystem; //InfoPower
20881: 851 unit uPSI_IdComponent; //Indy
20882: 852 unit uPSI_IdIOHandlerThrottle; //Indy
20883: 853 unit uPSI_Themes; //VCL
20884: 854 unit uPSI_StdStyleActnCtrls; //VCL
20885: 855 unit uPSI_UDDIHelper; //VCL
20886: 856 unit uPSI_IdIMAP4Server; //Indy
20887: 857 uPSI_VariantSymbolTable; //VCL //3.9.9.92
20888: 858 uPSI_udf_glob; //mX4
20889: 859 uPSI_TabGrid; //VCL
20890: 860 uPSI_JsDBTreeView; //mX4
20891: 861 uPSI_JsSendMail; //mX4
20892: 862 uPSI_dbTvRecordList; //mX4
20893: 863 uPSI_TreeVwEx; //mX4
20894: 864 uPSI_ECDataLink; //mX4
20895: 865 uPSI_dbTree; //mX4
20896: 866 uPSI_dbTreeCBox; //mX4
20897: 867 unit uPSI_Debug; //TfrmDebug //mX4
20898: 868 uPSI_TimeFncs; //mX4
20899: 869 uPSI_FileIntf; //VCL
20900: 870 uPSI_SockTransport; //RTL
20901: 871 unit uPSI_WinInet; //RTL
20902: 872 unit uPSI_WWSTR; //mX4
20903: 873 uPSI_DBLookup; //VCL
20904: 874 uPSI_Hotspot; //mX4
20905: 875 uPSI_HList; //History List //mX4
20906: 876 unit uPSI_DrTable; //VCL
20907: 877 uPSI_TConnect; //VCL
20908: 978 uPSI_DataBkr; //VCL
20909: 979 uPSI_HTTPIntr; //VCL
20910: 980 unit uPSI_Mathbox; //mX4
20911: 881 uPSI_cyIndy; //cY

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20912: 882 uPSI_cySysUtils, //cY
20913: 883 uPSI_cyWinUtils, //cY
20914: 884 uPSI_cyStrUtils, //cY
20915: 885 uPSI_cyObjUtils, //cY
20916: 886 uPSI_cyDateUtils, //cY
20917: 887 uPSI_cyBDE, //cY
20918: 888 uPSI_cyClasses, //cY
20919: 889 uPSI_cyGraphics, //3.9.9.94_2 //cY
20920: 890 unit uPSI_cyTypes; //cY
20921: 891 uPSI_JvDateTimePicker, //JCL
20922: 892 uPSI_JvCreateProcess, //JCL
20923: 893 uPSI_JvEasterEgg, //JCL
20924: 894 uPSI_WinSvc, //3.9.9.94_3 //VCL
20925: 895 uPSI_SvcMgr //VCL
20926: 896 unit uPSI_JvPickDate; //JCL
20927: 897 unit uPSI_JvNotify; //JCL
20928: 898 uPSI_JvStrHlder //JCL
20929: 899 unit uPSI_JclNTFS2; //JCL
20930: 900 uPSI_Jcl8087 //math coprocessor //JCL
20931: 901 uPSI_JvAddPrinter //JCL
20932: 902 uPSI_JvCabFile //JCL
20933: 903 uPSI_JvDataEmbedded; //JCL
20934: 904 unit uPSI_U_HexView; //mX4
20935: 905 uPSI_UWavein4, //mX4
20936: 906 uPSI_AMixer, //mX4
20937: 907 uPSI_JvaScrollText, //mX4
20938: 908 uPSI_JvArrow, //mX4
20939: 909 unit uPSI.UrlMon; //mX4
20940: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
20941: 911 unit uPSI_U_Oscilloscope4; //ToscfrmMain; //DFF
20942: 912 unit uPSI_DFFUutils; //DFF
20943: 913 unit uPSI_MathsLib; //DFF
20944: 914 uPSI_UIntList; //DFF
20945: 915 uPSI_UGetParens; //DFF
20946: 916 unit uPSI_UGeometry; //DFF
20947: 917 unit uPSI_UAstronomy; //DFF
20948: 918 unit uPSI_UCardComponentV2; //DFF
20949: 919 unit uPSI_UTGraphSearch; //DFF
20950: 920 unit uPSI_UParser10; //DFF
20951: 921 unit uPSI_cyIEUutils; //cY
20952: 922 unit uPSI_UcomboV2; //DFF
20953: 923 uPSI_cyBaseComm, //cY
20954: 924 uPSI_cyAppInstances, //cY
20955: 925 uPSI_cyAttract, //cY
20956: 926 uPSI_cyDERUtils //cY
20957: 927 unit uPSI_cyDocER; //cY
20958: 928 unit uPSI_ODBC; //mX
20959: 929 unit uPSI_AssocExec; //mX
20960: 930 uPSI_cyBaseCommRoomConnector, //cY
20961: 931 uPSI_cyCommRoomConnector, //cY
20962: 932 uPSI_cyCommunicate, //cY
20963: 933 uPSI_cyImage; //cY
20964: 934 uPSI_cyBaseContainer //cY
20965: 935 uPSI_cyModalContainer, //cY
20966: 936 uPSI_cyFlyingContainer; //cY
20967:
20968:
20969: /////////////////////////////////
20970: //Form Template Library FTL
20971: /////////////////////////////////
20972:
20973: 30 FTL For Form Building out of the Script, eg. 399_form_templates.txt
20974:
20975: 045 unit uPSI_VListView TFormListView;
20976: 263 unit uPSI_JvProfiler32; TProfReport
20977: 270 unit uPSI_ImgList; TCustomImageList
20978: 278 unit uPSI_JvImageWindow; TJvImageWindow
20979: 317 unit uPSI_JvParserForm; TJvhHTMLParserForm
20980: 497 unit uPSI_DebugBox; TDebugBox
20981: 513 unit uPSI_ImageWin; TImageForm, TImageForm2
20982: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm
20983: 515 unit uPSI_GraphWin; TGraphWinForm
20984: 516 unit uPSI_actionMain; TActionForm
20985: 518 unit uPSI_CtlPanel; TAppletApplication
20986: 529 unit uPSI_MDIEdit; TEditForm
20987: 535 unit uPSI_CoolMain; {browser} TWeb MainForm
20988: 538 unit uPSI_frmExportMain; TSynexportForm
20989: 585 unit uPSI_usniffer; {/PortScanForm} TSniffForm
20990: 600 unit uPSI_ThreadForm; TThreadSortForm
20991: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
20992: 620 unit uPSI_fplotMain; TfplotForm1
20993: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog
20994: 677 unit uPSI_OptionsFrm; TfrmOptions;
20995: 718 unit uPSI_MonForm; TMonitorForm
20996: 742 unit uPSI_SimplePortMain; TPortForm1
20997: 770 unit uPSI_ovccalc; TOvcCalculator //widget
20998: 810 unit uPSI_DbExcept; TDBEngineErrorDlg
20999: 812 unit uPSI_GL_actorUnit1; TglActorForm1 //OpenGL Robot
21000: 846 unit uPSI_synhttp_daemon; TTCPHttpDaemon, TTCPHttpThrd, TPingThread

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```
21001: 867 unit uPSI_Debug;                                TfrmDebug
21002: 904 unit uPSI_U_HexView;                            THexForm2
21003: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain)      TOscfrmMain
21004:
21005:
21006: ex.:with TEditForm.create(self) do begin
21007:   caption:= 'Template Form Tester';
21008:   FormStyle:= fsStayOnTop;
21009:   with editor do begin
21010:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf'
21011:     SelStart:= 0;
21012:     Modified:= False;
21013:   end;
21014: end;
21015: with TWebMainForm.create(self) do begin
21016:   URLs.Text:= 'http://www.kleiner.ch';
21017:   URLsClick(self); Show;
21018: end;
21019: with TSynexportForm.create(self) do begin
21020:   Caption:= 'Synexport HTML RTF tester';
21021:   Show;
21022: end;
21023: with TThreadSortForm.create(self) do begin
21024:   ShowModal; free;
21025: end;
21026:
21027: with TCustomDrawForm.create(self) do begin
21028:   width:=820; height:=820;
21029:   image1.height:= 600; //add properties
21030:   image1.picture.bitmap:= image2.picture.bitmap;
21031:   //SelectionBackground1Click(self) CustomDraw1Click(self);
21032:   Background1.click;
21033:   bitmap1.click;
21034:   Tile1.click;
21035:   ShowModal;
21036:   Free;
21037: end;
21038:
21039: with TfplotForm1.Create(self) do begin
21040:   BtnPlotClick(self);
21041:   ShowModal; Free;
21042: end;
21043:
21044: with TOvcCalculator.create(self) do begin
21045:   parent:= aForm;
21046:   //free;
21047:   setbounds(550,510,200,150);
21048:   displaystr:= 'maXcalc';
21049: end;
21050:
21051: with THexForm2.Create(self) do begin
21052:   ShowModal;
21053:   Free;
21054: end;
21055:
21056:
21057: /////////////////////////////////
21058: All maxBox Tutorials Table of Content 2014
21059: ///////////////////////////////
21060: Tutorial 00 Function-Coding (Blix the Programmer)
21061: Tutorial 01 Procedural-Coding
21062: Tutorial 02 OO-Programming
21063: Tutorial 03 Modular Coding
21064: Tutorial 04 UML Use Case Coding
21065: Tutorial 05 Internet Coding
21066: Tutorial 06 Network Coding
21067: Tutorial 07 Game Graphics Coding
21068: Tutorial 08 Operating System Coding
21069: Tutorial 09 Database Coding
21070: Tutorial 10 Statistic Coding
21071: Tutorial 11 Forms Coding
21072: Tutorial 12 SQL DB Coding
21073: Tutorial 13 Crypto Coding
21074: Tutorial 14 Parallel Coding
21075: Tutorial 15 Serial RS232 Coding
21076: Tutorial 16 Event Driven Coding
21077: Tutorial 17 Web Server Coding
21078: Tutorial 18 Arduino System Coding
21079: Tutorial 18_3 RGB LED System Coding
21080: Tutorial 19 WinCOM /Arduino Coding
21081: Tutorial 20 Regular Expressions RegEx
21082: Tutorial 21 Android Coding (coming 2013)
21083: Tutorial 22 Services Programming
21084: Tutorial 23 Real Time Systems
21085: Tutorial 24 Clean Code
21086: Tutorial 25 maxBox Configuration I+II
21087: Tutorial 26 Socket Programming with TCP
21088: Tutorial 27 XML & TreeView
21089: Tutorial 28 DLL Coding (available)
```

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21090: Tutorial 29 UML Scripting (2014)
21091: Tutorial 30 Web of Things (2014)
21092: Tutorial 31 Closures (coming 2014)
21093: Tutorial 32 SQL Firebird (coming 2014)
21094: Tutorial 33 Oscilloscope (coming 2015)
21095: Tutorial 34 GPS Navigation (coming 2015)
21096:
21097:
21098: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
21099: using Docu for this file is maxbox_functions_all.pdf
21100: PEP - Pascal Education Program Lib Lab
21101:
21102: http://stackoverflow.com/tags/pascalscript/hot
21103: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
21104: http://sourceforge.net/projects/maxbox #locs:51620
21105: http://sourceforge.net/apps/mediawiki/maxbox
21106: http://www.blaisepascal.eu/
21107: https://github.com/maxkleiner/maxbox3.git
21108: http://www.heise.de/download/maxbox-1176464.html
21109: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
21110: https://www.facebook.com/pages/Programming-maxbox/166844836691703
21111:
21112: ----- bigbitbox code_cleared-----
```