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1: ****
2: Constructor Function and Procedure List of maxbox 3.9.9.120
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: 23614464 V3.9.9.120 Dez 2014 To EKON/BASTA/JAX/IBZ/SWS/EU/DT/PASCON
10: *****Now the Funclist*****
11: Funclist Function : 13930 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 8516 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1382 //995 //
16: def head:max: maxbox7: 28.11.2014 09:11:55
17: file E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt
18: doc file: maxbox_extract_funclist399_.txt (sort function list)
19: -----
20: Funclist total Size all is: 23828! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 24190
22: ASize of EXE: 23614464 (22041600) (16586240) (13511680)
23: SHA1 Hash of maxbox 3.9.9.120: 3EFB12E5729BDAA745373C2743F9DD1E93C9295D
24:
25: -----
26: -----
27: //////////////////////////////////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: Function *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: Function ( Index: Longint): Integer
34: function (Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: Function _CheckAutoResult( ResultCode: HResult) : HResult
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: Function Abs(e : Extended) : Extended;
39: Function Ackermann( const A, B : Integer) : Integer
40: Function AcquireLayoutLock : Boolean
41: Function ActionByName( const AName : string) : TWebActionItem
42: Function ACTIVEBUFFER : PCHAR
43: Function Add : TAggregate
44: function Add : TCollectionItem
45: Function Add : TColumn
46: Function Add : TComboExItem
47: Function Add : TCookie
48: Function Add : TCoolBand
49: Function Add : TFavoriteLinkItem
50: Function Add : TFileTypeItem
51: Function Add : THeaderSection
52: Function Add : THTMLTableColumn
53: Function Add : TIdEmailAddressItem
54: Function Add : TIdMessagePart
55: Function Add : TIdUserAccount
56: Function Add : TListColumn
57: Function Add : TListItem
58: Function Add : TStatusPanel
59: Function Add : TTaskDialogBaseButtonItem
60: Function Add : TWebActionItem
61: Function Add : TWorkArea
62: Function Add( AClass : TClass) : Integer
63: Function Add( AComponent : TComponent) : Integer
64: Function Add( AItem, AData : Integer) : Integer
65: Function Add( AItem, AData : Pointer) : Pointer
66: Function Add( AItem, AData : TObject) : TObject
67: Function Add( AObject : TObject) : Integer
68: Function Add( const Access, Count : Cardinal; const Offset : Int64) : Integer
69: Function Add( const S : WideString) : Integer
70: Function Add( Image, Mask : TBitmap) : Integer
71: Function Add( Index : LongInt; const Text : string) : LongInt
72: Function Add( Sibling : TTreeNode; const S : string) : TTreeNode
73: Function Add(const S: string): Integer
74: function Add(S: string): Integer;
75: Function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address: Pointer) : Integer
76: Function ADDCHILD : TFIELDDEF
77: Function AddChild( Index : LongInt; const Text : string) : LongInt
78: Function AddChild( Parent : TTreeNode; const S : string) : TTreeNode
79: Function AddChildFirst( Parent : TTreeNode; const S : string) : TTreeNode
80: Function AddChildObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
81: Function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
82: Function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
83: Function ADDFIELDDEF : TFIELDDEF
84: Function AddFileExtIfNecessary( AFileName, AExt : string) : string
85: Function AddFirst( Sibling : TTreeNode; const S : string) : TTreeNode
86: Function AddIcon( Image : TIcon) : Integer
87: Function AddImage( Value : TCustomImageList; Index : Integer) : Integer
88: Function ADDINDEXDEF : TINDEXDEF
89: Function AddItem(const Caption:String;const ImageIdx,SelectImageIdx,OverlayImagIdx,
Indent:Int;Data:Ptr):TComboExItem

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90: Function AddItem( Item : THeaderSection; Index : Integer ) : THeaderSection
91: Function AddItem( Item : TListItem; Index : Integer ) : TListItem
92: Function AddItem( Item : TStatusPanel; Index : Integer ) : TStatusPanel
93: Function AddMapping( const FieldName : string ) : Boolean
94: Function AddMasked( Image : TBitmap; MaskColor : TColor ) : Integer
95: Function AddModuleClass( AClass : TComponentClass ) : TComponent
96: Function AddModuleName( const AClass : string ) : TComponent
97: Function AddNode( Node,Relative : TTreeNode;const S: string;Ptr:Pointer;Method:TNodeAttachMode ):TTreeNode
98: Function AddObject( const S : WideString; AObject : TObject ) : Integer
99: Function AddObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
100: Function AddObject( Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
101: function AddObject(S:string;AObject:TObject):integer
102: Function AddObjectFirst( Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
103: Function AddParameter : TParameter
104: Function AddParamSQLForDetail(Params:TParams;SQL:WideStr;Native:Bool;QuoteChar:WideString):WideString
105: Function Addr64ToAddr32(const Value: TJclAddr64): TJclAddr32;
106: Function Addr32ToAddr64(const Value: TJclAddr32): TJclAddr64;
107: function AdjustLineBreaksS(const S: string): string
108: TTextLineStyle', '(tlbsLF, tlbsCRLF)
109: Function AdjustLineBreaks(const S: string; Style: TTextLineStyle): string;
110: Function AllData : string
111: function AllocMemCount: integer;
112: function AllocMemSize: integer;
113: Function AllocPatternBitmap( BkColor, FgColor : TColor ) : TBitmap
114: Function AllowRegKeyForEveryone( Key : HKEY; Path : string ) : Boolean
115: Function AlphaComponent( const Color32 : TColor32 ) : Integer
116: Function AlphaSort : Boolean
117: Function AlphaSort( ARecurse : Boolean ) : Boolean
118: Function AnsiCat( const x, y : AnsiString ) : AnsiString
119: Function AnsiCompareFileName( S1, S2 : string ) : Integer
120: function AnsiCompareFileName(const S1: string; const S2: string): Integer
121: Function AnsiCompareStr( S1, S2 : string ) : Integer
122: function AnsiCompareStr(const S1: string; const S2: string): Integer;
123: Function AnsiCompareText( S1, S2 : string ) : Integer
124: function AnsiCompareText(const S1: string; const S2: string): Integer;
125: Function AnsiContainsStr( const AText, ASubText : string ) : Boolean
126: Function AnsiContainsText( const AText, ASubText : string ) : Boolean
127: Function AnsiCopy( const src : AnsiString; index, count : Integer ) : AnsiString
128: Function AnsiDequotedStr( S : string; AQuote : Char ) : string
129: Function AnsiEndsStr( const ASubText, AText : string ) : Boolean
130: Function AnsiEndsText( const ASubText, AText : string ) : Boolean
131: Function AnsiExtractQuotedStr( var Src : PChar; Quote : Char ) : string
132: function AnsiExtractQuotedStr(var Src : PChar; Quote: Char): string
133: Function AnsiIndexStr( const AText : string; const AValues : array of string ) : Integer
134: Function AnsiIndexText( const AText : string; const AValues : array of string ) : Integer
135: Function AnsiLastChar( S : string ) : PChar
136: function AnsilastChar(const S: string): PChar
137: Function AnsiLeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString
138: Function AnsiLowerCase( S : string ) : string
139: Function AnsiLowerCase(s : String) : String;
140: Function AnsilowerCaseFileName( S : string ) : string
141: Function AnsiMatchStr( const AText : string; const AValues : array of string ) : Boolean
142: Function AnsiMatchText( const AText : string; const AValues : array of string ) : Boolean
143: Function AnsiMidStr( const AText : AnsiString; const AStart, ACount : Integer ) : AnsiString
144: Function AnsiPos( const src, sub : AnsiString ) : Integer
145: Function AnsiPos( Substr, S : string ) : Integer
146: function AnsiPos(const Substr: string; const S: string): Integer;
147: Function AnsiQuotedStr( S : string; Quote : Char ) : string
148: Function AnsiReplaceStr( const AText, AFromText, AToText : string ) : string
149: Function AnsiReplaceText( const AText, AFromText, AToText : string ) : string
150: Function AnsiResemblesText( const AText, AOther : string ) : Boolean
151: Function AnsiReverseString( const AText : AnsiString ) : AnsiString
152: Function AnsiRightStr( const AText : AnsiString; const ACount : Integer ) : AnsiString
153: function AnsiSameCaption(const Text1: string; const Text2: string): Boolean
154: Function AnsiSameStr( S1, S2 : string ) : Boolean
155: function AnsiSameStr(const S1: string; const S2: string): Boolean
156: Function AnsiSameText( const S1, S2 : string ) : Boolean
157: Function AnsiSameText( S1, S2 : string ) : Boolean
158: function AnsiSameText(const S1: string; const S2: string): Boolean
159: Function AnsiStartsStr( const ASubText, AText : string ) : Boolean
160: Function AnsiStartsText( const ASubText, AText : string ) : Boolean
161: Function AnsiStrComp( S1, S2 : PChar ) : Integer
162: function AnsiStrComp(S1: PChar; S2: PChar): Integer
163: Function AnsiStrIComp( S1, S2 : PChar ) : Integer
164: function AnsiStrIComp(S1: PChar; S2: PChar): Integer
165: Function AnsiStrLastChar( P : PChar ) : PChar
166: function AnsiStrLastChar(P: PChar): PChar
167: Function AnsiStrLComp( S1, S2 : PChar; MaxLen : Cardinal ) : Integer
168: Function AnsiStrLIComp( S1, S2 : PChar; MaxLen : Cardinal ) : Integer
169: Function AnsiStrLower( Str : PChar ) : PChar
170: Function AnsiStrPos( Str, SubStr : PChar ) : PChar
171: function AnsiStrPos(Str: PChar; SubStr: PChar): PChar
172: Function AnsiStrScan(Str: PChar; Chr: Char): PChar
173: Function AnsiStrUpper( Str : PChar ) : PChar
174: Function AnsiToUtf8( const S : string ) : UTF8String
175: Function AnsiToUtf8Ex( const S : string; const cp : integer ) : UTF8String
176: Function AnsiUpperCase( S : string ) : string
177: Function AnsiUpperCaseFile( 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:PTTypeInfo;const SoapData:WideString;NatData:Pointer;IsNull:Boolean): Boolean
312: Function CastSoapToVariant1( SoapInfo : PTTypeInfo; const SoapData : WideString) : Variant;
313: Function Ceil( const X : Extended) : Integer
314: Function Ceil16( X : Integer) : Integer
315: Function Ceil4( X : Integer) : Integer
316: Function Ceil8( X : Integer) : Integer
317: Function Ceiling( const X : Extended) : Integer
318: Function CellRect( ACol, ARow : Longint) : TRect
319: Function CelsiusToFahrenheit( const AValue : Double) : Double
320: Function CenterPoint( const Rect : TRect) : TPoint
321: function CenterPoint(const Rect: TRect): TPoint)
322: Function ChangeFileExt( FileName, Extension : string) : string
323: function ChangeFileExt(const FileName: string; const Extension: string): string)
324: Function CharInSet2( const Ch : Char; const SetOfChar : TSetOfChar) : Boolean
325: Function CharInSet( const Ch : Char; const testSet: TSysCharSet): Boolean
326: Function CharIsEOF( const AString : string; ACharPos : Integer) : Boolean
327: Function CharIsInSet( const AString : string; const ACharPos : Integer; const ASet : String) : Boolean
328: Function CharLength( S : String; Index : Integer) : Integer
329: Function CharRange( const AMin, AMax : Char) : String
330: function CharsetToIdent(Charset: Longint; var Ident: string): Boolean)
331: Function CharToBin(vchr: Char): String;
332: Function CharNext(lpsz: PChar): PChar; stdcall;
333: Function CharToByteIndex( S : string; Index : Integer) : Integer
334: function CharToByteIndex(const S: string; Index: Integer): Integer)
335: Function CharToByteLen( S : string; MaxLen : Integer) : Integer
336: function CharToByteLen(const S: string; MaxLen: Integer): Integer)
337: Function CharToHex(const APrefix : String; const cc : Char) : shortstring;
338: function CharToHexStr(Value: char): string);
339: function CharToOem(ins, outs: PChar):boolean;
340: function CharToUniCode(Value: Char): string;
341: Function CheckMenuDropdown : Boolean
342: Function CheckMessages : longint
343: Function CheckBox: string;
344: Function CheckOpen( Status : DBIResult) : Boolean
345: Function CheckPassword( const APassword : String) : Boolean
346: Function CheckResponse(const AResponse:SmallInt;const AAllowedResponses:array of SmallInt): SmallInt
347: Function CheckCrc32( var X : array of Byte; N : Integer; Crc : Cardinal) : Integer;
348: function CheckSynchronize(Timeout: Integer): Boolean
349: Function CheckWin32Version( AMajor : Integer; AMinor : Integer) : Boolean
350: Function CheckCom(AComNumber: Integer): Integer;');
351: Function CheckLPT1: string;');
352: function ChrA(const a: byte): char;
353: Function ClassIDToProgID(const ClassID: TGUID): string;
354: Function ClassNameIs(const Name: string): Boolean
355: Function ClearBit( const Value : Byte; const Bit : TBitRange) : Byte;
356: Function ClearBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;

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

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

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

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

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

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

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

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963: function FormatByteSize(const bytes: int64): string;
964: function FormatBuf(var Buffer:PChar;Buflen:Card;const Format:string;FmtLen:Card;const Args:array of const):Cardinal
965: Function FormatCount( iCount : integer; const sSingular : string; const sPlural : string ) : string
966: Function FormatCurr( Format : string; Value : Currency ) : string;
967: function FormatCurr(const Format: string; Value: Currency): string)
968: Function FormatDateTime( Format : string; DateTime : TDateTime ) : string;
969: function FormatDateTime(const fmt: string; D: TDateTime): string;
970: Function FormatFloat( Format : string; Value : Extended ) : string;
971: function FormatFloat(const Format: string; Value: Extended): string)
972: Function FormatFloat( Format : string; Value : Extended ) : string;
973: Function FormatFloat2( Format : string; Value : Extended; FormatSettings : TFormatSettings ) : string;
974: Function FormatCurr( Format : string; Value : Currency ) : string;
975: Function FormatCurr2(Format: string; Value: Currency; FormatSettings : TFormatSettings) : string;
976: Function Format2(const Format:string;const Args:array of const;const FSettings:TFormatSettings): string
977: FUNCTION FormatInt(i: integer): STRING;
978: FUNCTION FormatInt64(i: int64): STRING;
979: Function FormatMaskText( const EditMask : string; const Value : string ) : string
980: Function FormatValue( AValue : Cardinal ) : string
981: Function FormatVersionString( const HiV, LoV : Word ) : string;
982: Function FormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
983: function Frac(X: Extended): Extended;
984: Function FreeResource( ResData : HGLOBAL ) : LongBool
985: Function FromCommon( const AValue : Double ) : Double
986: function FromCommon(const AValue: Double): Double;
987: Function FTPGMTDateToMLS( const ATimestamp : TDateTime; const AIncludeMsecs : Boolean ) : String
988: Function FTPLocalDateToMLS( const ATimestamp : TDateTime; const AIncludeMsecs : Boolean ) : String
989: Function FTPMLSToGMTDate( const ATimestamp : String ) : TDateTime
990: Function FTPMLSToLocalDate( const ATimestamp : String ) : TDateTime
991: Function FuncIn(AValue: Variant; ASet: Variant): Boolean;
992: //Function Funclist Size is: 6444 of mx3.9.8.9
993: Function FutureValue(const Rate:Extended;NPeriods:Integer;const Payment,PresentValue:Extended;PaymentTime:TPaymentTime):Extended
994: Function FullTimeToStr(SUMTime: TDateTime): string;');
995: Function Gauss( const x, Spread : Double ) : Double
996: function Gauss(const x,Spread: Double): Double;
997: Function GCD(x, y : LongInt) : LongInt;
998: Function GCDJ( X, Y : Cardinal ) : Cardinal
999: Function GDAL: LongWord
1000: Function GdiFlush : BOOL
1001: Function GdiSetBatchLimit( Limit : DWORD ) : DWORD
1002: Function GdiGetBatchLimit : DWORD
1003: Function GenerateHeader : TIHeaderList
1004: Function GeometricMean( const X : TDynFloatArray ) : Float
1005: Function Get( AURL : string ) : string;
1006: Function Get2( AURL : string ) : string;
1007: Function Get8087CW : Word
1008: function GetActiveOleObject(const ClassName: String): IDispatch;
1009: Function GetAliasDriverName( const AliasName : string ) : string
1010: Function GetAPMBatteryFlag : TAPMBatteryFlag
1011: Function GetAPMBatteryFullLifeTime : DWORD
1012: Function GetAPMBatteryLifePercent : Integer
1013: Function GetAPMBatteryLifeTime : DWORD
1014: Function GetAPMLineStatus : TAPMLineStatus
1015: Function GetAppdataFolder : string
1016: Function GetAppDispatcher : TComponent
1017: function GetArrayLength: integer;
1018: Function GetASCII: string;
1019: Function GetASCIILine: string;
1020: Function GetAsHandle( Format : Word ) : THandle
1021: function GetAssociatedProgram(const Extension: string; var Filename, Description: string): boolean;
1022: Function GetBackupFileName( const FileName : string ) : string
1023: function GetBaseAddress(PID:DWORD):DWORD; //Process API
1024: Function GetBBitmap( Value : TBitmap ) : TBitmap
1025: Function GetBIOSCopyright : string
1026: Function GetBIOSDate : TDateTime
1027: Function GetBIOSExtendedInfo : string
1028: Function GetBIOSName : string
1029: Function getBitmap(apath: string): TBitmap;
1030: Function GetBitmap( Index : Integer; Image : TBitmap ) : Boolean //object
1031: Function getBitmapObject(const bitmappath: string): TBitmap;
1032: Function GetButtonState( Button : TPageScrollerButton ) : TPageScrollerButtonState
1033: Function GetCapsLockKeyState : Boolean
1034: function GetCaptureControl: TControl;
1035: Function GetCDAudioTrackList( var TrackList : TJclCdTrackInfoArray; Drive : Char ) : TJclCdTrackInfo;
1036: Function GetCDAudioTrackList1( TrackList : TStrings; IncludeTrackType : Boolean; Drive : Char ) : string;
1037: Function GetCdInfo( InfoType : TJclCdMediaInfo; Drive : Char ) : string
1038: Function GetChangedText( const Text : string; SelStart, SelLength : Integer; Key : Char ) : string
1039: Function GetClientThread( ClientSocket : TServerClientWinSocket ) : TServerClientThread
1040: Function GetClockValue : Int64
1041: function getCmdLine: PChar;
1042: function getCmdShow: Integer;
1043: function GetCPUSpeed: Double;
1044: Function GetColField( DataCol : Integer ) : TField
1045: Function GetColorBlue( const Color : TColor ) : Byte
1046: Function GetColorFlag( const Color : TColor ) : Byte
1047: Function GetColorGreen( const Color : TColor ) : Byte
1048: Function GetColorRed( const Color : TColor ) : Byte
1049: Function GetComCtlVersion : Integer

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

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

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

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

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

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1489: Function IBFormatIdentifierValue( Dialect : Integer; Value : String ) : String
1490: Function IBExtractIdentifier( Dialect : Integer; Value : String ) : String
1491: Function IBQuoteIdentifier( Dialect : Integer; Value : String ) : String
1492: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string
1493: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String)
1494: Function RandomString( iLength : Integer ) : String';
1495: Function RandomInteger( iLow, iHigh : Integer ) : Integer';
1496: Function StripString( st : String; CharsToStrip : String ) : String';
1497: FUNCTION Strip( const SubString: String; MainString: String): String;
1498: function StripTags(const S: string): string; //<'> of HTML
1499: function SizeToString(size : Int64; const unitStr : String) : String;
1500: FUNCTION NumberToString(No: Word): String;
1501: Function FormatIdentifier( Dialect : Integer; Value : String ) : String';
1502: Function FormatIdentifierValue( Dialect : Integer; Value : String ) : String';
1503: Function ExtractIdentifier( Dialect : Integer; Value : String ) : String';
1504: Function QuoteIdentifier( Dialect : Integer; Value : String ) : String';
1505: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string
1506: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1507: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLToken): TSQLToken;
1508: Function IconToBitmap( Ico : HICON ) : TBitmap
1509: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap
1510: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap
1511: function IdentToCharset(const Ident: string; var Charset: Longint): Boolean
1512: function IdentToColor(const Ident: string; var Color: Longint): Boolean
1513: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1514: Function IdGetDefaultCharSet : TIdCharSet
1515: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant
1516: Function IdPorts2 : TStringList
1517: Function IdToMib( const Id : string ) : string
1518: Function IdSHA1Hash(apath: string): string;
1519: Function IdHashSHA1(apath: string): string;
1520: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string ) : string
1521: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string ) : string;
1522: Function IfThenInt( AValue : Boolean; const ATrue : integer; AFalse : integer): integer';
1523: Function IfThenDouble( AValue : Boolean; const ATrue : double; AFalse : double): double';
1524: Function IfThenBool( AValue : Boolean; const ATrue : boolean; AFalse : boolean): boolean';
1525: Function iif1( ATest : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer;
1526: Function iif2( ATTest : Boolean; const ATrue : string; const AFalse : string ) : string;
1527: Function iif3( ATTest : Boolean; const ATrue : Boolean; const AFalse : Boolean ) : Boolean;
1528: function ImportTest(S1: string;s2:longint; s3:Byte; s4:word; var s5:string): string;
1529: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime
1530: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime
1531: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1532: Function IncLimit1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1533: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1534: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1535: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1536: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1537: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1538: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1539: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1540: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1541: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1542: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1543: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1544: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1545: Function IncludeTrailingBackslash( S : string ) : string
1546: function IncludeTrailingBackslash(const S: string): string
1547: Function IncludeTrailingPathDelimiter( const APPath : string ) : string
1548: Function IncludeTrailingPathDelimiter( S : string ) : string
1549: function IncludeTrailingPathDelimiter(const S: string): string
1550: Function IncludeTrailingSlash( const APPath : string ) : string
1551: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64 ) : TDateTime
1552: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64 ) : TDateTime
1553: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer ) : TDateTime
1554: function IncMonth(const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1555: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64 ) : TDateTime
1556: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer ) : TDateTime
1557: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer ) : TDateTime
1558: Function IndexOf( AClass : TClass ) : Integer
1559: Function IndexOf( AComponent : TComponent ) : Integer
1560: Function IndexOf( AObject : TObject ) : Integer
1561: Function INDEXOF( const ANAME : String ) : INTEGER
1562: Function IndexOf( const DisplayName : string ) : Integer
1563: Function IndexOf( const Item : TBookmarkStr ) : Integer
1564: Function IndexOf( const S : WideString ) : Integer
1565: Function IndexOf( const View : TJclFileMappingView ) : Integer
1566: Function INDEXOF( FIELD : TFIELD ) : INTEGER
1567: Function IndexOf( ID : LCID ) : Integer
1568: Function INDEXOF( ITEM : TMENUITEM ) : INTEGER
1569: Function IndexOf( Value : TListItem ) : Integer
1570: Function IndexOf( Value : TTreeNode ) : Integer
1571: function IndexOf(const S: string): Integer;
1572: Function IndexOfName( const Name : WideString ) : Integer
1573: function IndexOfName(Name: string): Integer;
1574: Function IndexOfObject( AObject : TObject ) : Integer
1575: function IndexOfObject(AObject:tObject):Integer
1576: Function IndexOfTabAt( X, Y : Integer ) : Integer
1577: Function IndexStr( const AText : string; const AValues : array of string ) : Integer

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1578: Function IndexText( const AText : string; const AValues : array of string) : Integer
1579: Function IndexOfInteger( AList : TStringList; Value : Variant) : Integer
1580: Function IndexOffloat( Alist : TStringList; Value : Variant) : Integer
1581: Function IndexOfDate( Alist : TStringList; Value : Variant) : Integer
1582: Function IndexOfString( Alist : TStringList; Value : Variant) : Integer
1583: Function IndyCompareStr( const A1 : string; const A2 : string) : Integer
1584: Function IndyGetHostName : string
1585: Function IndyInterlockedDecrement( var I : Integer) : Integer
1586: Function IndyInterlockedExchange( var A : Integer; B : Integer) : Integer
1587: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer) : Integer
1588: Function IndyInterlockedIncrement( var I : Integer) : Integer
1589: Function IndyLowerCase( const A1 : string) : string
1590: Function IndyStrToBool( const AString : String) : Boolean
1591: Function IndyUpperCase( const A1 : string) : string
1592: Function InitCommonControl( CC : Integer) : Boolean
1593: Function InitTempPath : string
1594: Function InMainThread : boolean
1595: Function InOpArray( W : WideChar; sets : array of WideChar) : boolean
1596: Function Input : Text
1597: Function InputBox( const ACaption, APrompt, ADefault : string) : string
1598: function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string
1599: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1600: Function InputQuery( const ACaption, APrompt : string; var Value : string) : Boolean
1601: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1602: Function InquireSignal( RtlSignum : Integer) : TSignalState
1603: Function InRanger( const A, Min, Max : Double) : Boolean
1604: function Insert( Index : Integer) : TCollectionItem
1605: Function Insert( Index : Integer) : TComboExItem
1606: Function Insert( Index : Integer) : THeaderSection
1607: Function Insert( Index : Integer) : TListItem
1608: Function Insert( Index : Integer) : TStatusPanel
1609: Function Insert( Index : Integer) : TWorkArea
1610: Function Insert( Index : LongInt; const Text : string) : LongInt
1611: Function Insert( Sibling : TTreeNode; const S : string) : TTreeNode
1612: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM) : INTEGER
1613: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM) : INTEGER
1614: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1615: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
1616: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1617: Function Instance : Longint
1618: function InstanceSize: Longint
1619: Function Int(e : Extended) : Extended;
1620: function Int64ToStr(i: Int64): String;
1621: Function IntegerToBcd( const AValue : Integer) : TBcd
1622: Function Intensity( const Color32 : TColor32) : Integer;
1623: Function Intensity( const R, G, B : Single) : Single;
1624: Function InterestPayment( const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
  FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1625: Function InterestRate(NPeriods:Integer;const Payment,PresVal,
  FutureVal:Extended;PaymentTime:TPaymentTime):Extended
1626: Function InternalDecodeDate( DateTime: TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1627: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1628: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1629: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1630: function IntersectRect(out Rect : TRect; const R1, R2: TRect): Boolean
1631: Function IntMibToStr( const Value : string) : string
1632: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1633: Function IntToBin( Value : cardinal) : string
1634: Function IntToHex( Value : Integer; Digits : Integer) : string;
1635: function IntToHex(a: integer; b: integer): string;
1636: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1637: function IntToHex64(Value: Int64; Digits: Integer): string
1638: Function IntTo3Str( Value : Longint; separator: string) : string
1639: Function inttobool( aInt : LongInt) : Boolean
1640: function IntToStr(i: Int64): String;
1641: Function IntToStr64(Value: Int64): string
1642: function IOResult: Integer
1643: Function IPv6AddressToStr(const AValue: TIIPv6Address): string
1644: function IPAddrToHostName(const IP: string): string;
1645: Function IsAccel(VK: Word; const Str: string): Boolean
1646: Function IsAddressInNetwork( Address : String) : Boolean
1647: Function IsAdministrator : Boolean
1648: Function IsAlias( const Name : string) : Boolean
1649: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1650: Function IsASCII( const AByte : Byte) : Boolean;
1651: Function IsASCIILDH( const AByte : Byte) : Boolean;
1652: Function IsAssembly(const FileName: string): Boolean;
1653: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1654: Function IsBinary(const AChar : Char) : Boolean
1655: function IsConsole: Boolean)
1656: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1657: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean
1658: Function IsDelphiDesignMode : boolean
1659: Function IsDelphiRunning : boolean
1660: Function IsDFAState : boolean
1661: Function IsDirectory( const FileName : string) : Boolean
1662: Function IsDomain( const S : String) : Boolean
1663: function IsDragObject(Sender: TObject): Boolean;
1664: Function IsEditing : Boolean

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1665: Function ISEmpty : BOOLEAN
1666: Function IsEqual( Value : TParameters ) : Boolean
1667: Function ISEqual( VALUE : TPARAMS ) : BOOLEAN
1668: function IsEqualGUID( const guid1, guid2: TGUID): Boolean
1669: Function IsFirstNode : Boolean
1670: Function IsFloatZero( const X : Float ) : Boolean
1671: Function IsFormatRegistered( Extension, AppID : string ) : Boolean
1672: Function IsFormOpen( const FormName: string): Boolean;
1673: Function IsFQDN( const S : String ) : Boolean
1674: Function IsGrayScale : Boolean
1675: Function IsHex( AChar : Char ) : Boolean;
1676: Function IsHexString( const AString: string): Boolean;
1677: Function IsHostname( const S : String ) : Boolean
1678: Function IsInfinite( const AValue : Double) : Boolean
1679: Function IsInLeapYear( const AValue : TDateTime ) : Boolean
1680: Function IsInternet: boolean;
1681: Function IsLeadChar( ACh : Char ) : Boolean
1682: Function IsLeapYear( Year : Word) : Boolean
1683: function IsLeapYear(Year: Word): Boolean)
1684: function IsLibrary: Boolean)
1685: Function ISLINE : BOOLEAN
1686: Function IsLinkedTo( DataSet : TDataSet ) : Boolean
1687: Function ISLINKEDTO( DATASOURCE : TDATASOURCE ) : BOOLEAN
1688: Function IsLiteralChar( const EditMask : string; Offset : Integer ) : Boolean
1689: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1690: Function IsMainAppWindow( Wnd : HWND ) : Boolean
1691: Function IsMediaPresentInDrive( Drive : Char ) : Boolean
1692: function IsMemoryManagerSet: Boolean)
1693: Function IsMultiTableQuery( const SQL : WideString ) : Boolean
1694: function IsMultiThread: Boolean)
1695: Function IsNumeric( AChar : Char ) : Boolean;
1696: Function IsNumeric2( const AString : string ) : Boolean;
1697: Function IsNTFS: Boolean;
1698: Function IsOctal( AChar : Char ) : Boolean;
1699: Function IsOctalString(const AString: string) : Boolean;
1700: Function IsPathDelimiter( S : string; Index : Integer ) : Boolean
1701: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1702: Function IsPM( const AValue : TDateTime ) : Boolean
1703: Function IsPositiveFloatArray( const X : TDynFloatArray ) : Boolean
1704: Function IsPortAvailable( ComNum : Cardinal ) : Boolean');
1705: Function IsComPortReal( ComNum : Cardinal ) : Boolean');
1706: Function IsCOM( ComNum : Cardinal ) : Boolean');
1707: Function IsComPort: Boolean');
1708: Function IsPrimeFactor( const F, N : Cardinal ) : Boolean
1709: Function IsPrimerM( N : Cardinal ) : Boolean //rabin miller
1710: Function IsPrimeTD( N : Cardinal ) : Boolean //trial division
1711: Function IsPrivilegeEnabled( const Privilege : string) : Boolean
1712: Function ISqr( const I : Smallint ) : Smallint
1713: Function IsReadOnly(const Filename: string): boolean;
1714: Function IsRectEmpty( const Rect : TRect ) : Boolean
1715: function IsRectEmpty(const Rect): Boolean)
1716: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1717: Function ISRIGHTTOLEFT : BOOLEAN
1718: function IsRightToLeft: Boolean
1719: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1720: Function ISSEQUENCED : BOOLEAN
1721: Function IsSystemModule( const Module : HMODULE ) : Boolean
1722: Function IsSystemResourcesMeterPresent : Boolean
1723: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1724: Function IsToday( const AValue : TDateTime ) : Boolean
1725: function IsToday(const AValue: TDateTime): Boolean;
1726: Function IsTopDomain( const Astr : string ) : Boolean
1727: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1728: Function IsUTF8String( const s : UTF8String ) : Boolean
1729: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1730: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1731: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1732: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1733: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1734: Function IsValidDateTime( const AYear,AMonth, ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1735: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1736: Function IsValidIdent( Ident : string ) : Boolean
1737: function IsValidIdent1(const Ident: string; AllowDots: Boolean): Boolean)
1738: Function IsValidIP( const S : String ) : Boolean
1739: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1740: Function IsValidPNG(stream: TStream): Boolean;
1741: Function IsValidJPEG(stream: TStream): Boolean;
1742: Function IsValidISBN( const ISBN : AnsiString ) : Boolean
1743: Function IsVariantManagerSet: Boolean; //deprecated;
1744: Function IsVirtualPcGuest : Boolean;
1745: Function IsVmWareGuest : Boolean;
1746: Function IsVCLControl(Handle: HWnd): Boolean;
1747: Function IsWhiteString( const AStr : String ) : Boolean
1748: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1749: Function IsWo64: boolean;
1750: Function IsWin64: boolean;
1751: Function IsWow64String(var s: string): Boolean;
1752: Function IsWin64String(var s: string): Boolean;
1753: Function IsWindowsVista: boolean;

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1754: Function isPowerof2(num: int64): boolean;
1755: Function powerOf2(exponent: integer): int64;
1756: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1757: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1758: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1759: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1760: function ITEMATPOS(POS:TPOINT;EXISTING:BOOLEAN):INTEGER
1761: Function ItemRect( Index : Integer) : TRect
1762: function ITEMRECT(INDEX:INTEGER):TRECT
1763: Function ItemWidth( Index : Integer) : Integer
1764: Function JavahashCode(val: string): Integer;
1765: Function JosephusG(n,k: integer; var graphout: string): integer;
1766: Function JulianDateToDateTime( const AValue : Double) : TDateTime
1767: Function JustName(PathName: string) : string; //in path and ext
1768: Function JvMessageBox( const Text, Caption : string; Flags : DWORD) : Integer;
1769: Function JvMessageBox1( const Text : string; Flags : DWORD) : Integer;
1770: Function KeepAlive : Boolean
1771: Function KeysToShiftState(Keys: Word): TShiftState;
1772: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1773: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1774: Function KeyboardStateToShiftState: TShiftState; overload;
1775: Function Languages : TLanguages
1776: Function Last : TClass
1777: Function Last : TComponent
1778: Function Last : TObject
1779: Function LastDelimiter( Delimiters, S : string) : Integer
1780: function LastDelimiter(const Delimiters: string; const S: string): Integer
1781: Function LastPos( const ASubstr : string; const AStr : string) : Integer
1782: Function Latitude2WGS84(lat: double): double;
1783: Function LCM(m,n:longint):longint;
1784: Function LCMJ( const X, Y : Cardinal) : Cardinal
1785: Function Ldexp( const X : Extended; const P : Integer) : Extended
1786: Function LeftStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
1787: Function LeftStr( const AText : WideString; const ACount : Integer) : WideString;
1788: function Length: Integer;
1789: Procedure LetFileList(FileList: TStringlist; apath: string);
1790: function lengthmp3(mp3path: string):integer;
1791: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect) : Boolean;
1792: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1793: function LinesCount(sfilename:string):extended;
1794: function TextfileLineCount(const FileName: string): integer;
1795: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
  L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1796: function LineStart(Buffer, BufPos: PChar): PChar
1797: function LineStart(Buffer, BufPos: PChar): PChar
1798: function ListSeparator: char;
1799: function Ln(x: Extended): Extended;
1800: Function LnXP1( const X : Extended) : Extended
1801: function Lo(vdat: word): byte;
1802: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1803: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1804: Function LoadFileAsString( const FileName : string) : string
1805: Function LoadFromFile( const FileName : string) : TBitmapLoader
1806: function Loadfile(const FileName: TFileName): string;
1807: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1808: Function LoadPackage(const Name: string): HMODULE
1809: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1810: Function LoadStr( Ident : Integer) : string
1811: Function LoadString(Instance: Longint; Ident: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1812: Function LoadWideStr( Ident : Integer) : WideString
1813: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1814: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
1815: Function LockServer( fLock : LongBool) : HResult
1816: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1817: Function Log( const X : Extended) : Extended
1818: Function Log10( const X : Extended) : Extended
1819: Function Log2( const X : Extended) : Extended
1820: function LogBase10(X: Float): Float;
1821: Function LogBase2(X: Float): Float;
1822: Function LogBaseN(Base, X: Float): Float;
1823: Function LogN( const Base, X : Extended) : Extended
1824: Function LogOffOS : Boolean
1825: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1826: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1827: Function LongDateFormat: string;
1828: function LongTimeFormat: string;
1829: Function LongWordToFourChar( ACARDINAL : LongWord) : string
1830: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1831: Function LookupName( const name : string) : TInAddr
1832: Function LookupService( const service : string) : Integer
1833: function Low: Int64;
1834: Function LowerCase( S : string) : string
1835: Function Lowercase(s : AnyString) : AnyString;
1836: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1837: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1838: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1839: function MainInstance: longword
1840: function MainThreadID: longword
1841: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino

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1842: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1843: Function MakeCanonicalIPv4Address( const AAddr : string) : string
1844: Function MakeCanonicalIPv6Address( const AAddr : string) : string
1845: Function MakeIDB( out Bitmap : PBitmapInfo) : Integer
1846: Function MakeWordIntoIPv4Address( const ADWord : Cardinal) : string
1847: Function Makefile(const FileName: string): integer)';
1848: function MakeLong(A, B: Word): Longint)
1849: Function MakeTempFilename( const APath : String) : string
1850: Function MakeValidFileName( const Str : string) : string
1851: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1852: function MakeWord(A, B: Byte): Word)
1853: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1854: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1855: Function MapValues( Mapping : string; Value : string) : string
1856: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1857: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1858: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1859: Function MaskGetFldSeparator( const EditMask : string) : Integer
1860: Function MaskGetMaskBlank( const EditMask : string) : Char
1861: Function MaskGetMaskSave( const EditMask : string) : Boolean
1862: Function MaskIntLiteralToChar( IChar : Char) : Char
1863: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1864: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1865: Function MaskString( Mask, Value : String) : String
1866: Function Match( const sString : string) : TniRegularExpressionMatchResul
1867: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1868: Function Matches( const Filename : string) : Boolean
1869: Function MatchesMask( const Filename, Mask : string) : Boolean
1870: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1871: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1872: Function Max( AValueOne, AValueTwo : Integer) : Integer
1873: function Max(const x,y: Integer): Integer;
1874: Function Max1( const B1, B2 : Shortint) : Shortint;
1875: Function Max2( const B1, B2 : Smallint) : Smallint;
1876: Function Max3( const B1, B2 : Word) : Word;
1877: function Max3(const x,y,z: Integer): Integer;
1878: Function Max4( const B1, B2 : Integer) : Integer;
1879: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1880: Function Max6( const B1, B2 : Int64) : Int64;
1881: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1882: Function MaxFloat( const X, Y : Float) : Float
1883: Function MaxFloatArray( const B : TDynFloatArray) : Float
1884: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1885: function MaxIntValue(const Data: array of Integer):Integer)
1886: Function MaxJ( const B1, B2 : Byte) : Byte;
1887: function MaxPath: string;
1888: function MaxValue(const Data: array of Double): Double)
1889: Function MaxCalc( const Formula : string) : Extended //math expression parser
1890: Procedure MaxCalcF( const Formula : string); //out to console memo2
1891: function MD5(const fileName: string): string;
1892: Function Mean( const Data : array of Double) : Extended
1893: Function Median( const X : TDynFloatArray) : Float
1894: Function Memory : Pointer
1895: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1896: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1897: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1898: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1899: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1900: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
  Y:Integer):Integer;
1901: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
1902: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string) : Integer;
1903: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn) : Integer;
1904: Function MibToId( Mib : string) : string
1905: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer) : AnsiString;
1906: Function MidStr( const AText : WideString; const AStart, ACount : Integer) : WideString;
1907: Function microsecondsToCentimeters(milliseconds: longint): longint; //340m/s speed of sound
1908: Function Micros(const Timer:THTPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64
1909: Function MIDIOut( DeviceID : Cardinal) : IJclMIDIOut
1910: Procedure GetMidiOutputs( const List : TStrings)
1911: // GetGEOMAPX('html',ExePath+'cologne2mapX.html','cathedral_cologne')
1912: Procedure GetGEOMap(C_form,apath: string; const Data: string); //C_form: [html/json/xml]
1913: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single) : TSingleNoteTuningData
1914: Function MIDINoteToStr( Note : TMIDINote) : string
1915: Function WinMidiOut( DeviceID : Cardinal) : IJclWinMidiOut
1916: Procedure GetMidiOutputs( const List : TStrings)
1917: Procedure MidiOutCheck( Code : MMResult)
1918: Procedure MidiInCheck( Code : MMResult)
1919: Function MillisecondOf( const AValue : TDateTime) : Word
1920: Function MillisecondOfTheDay( const AValue : TDateTime) : LongWord
1921: Function MillisecondOfTheHour( const AValue : TDateTime) : LongWord
1922: Function MillisecondOfTheMinute( const AValue : TDateTime) : LongWord
1923: Function MillisecondOfTheMonth( const AValue : TDateTime) : LongWord
1924: Function MillisecondOfTheSecond( const AValue : TDateTime) : Word
1925: Function MillisecondOfTheWeek( const AValue : TDateTime) : LongWord

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

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2010: function Now2: tDateTime
2011: Function NumProcessThreads : integer
2012: Function NumThreadCount : integer
2013: Function NthDayOfWeek( const AValue : TDateTime ) : Word
2014: Function NtProductType : TNtProductType
2015: Function NtProductTypeString : string
2016: function Null: Variant;
2017: Function NullPoint : TPoint
2018: Function NullRect : TRect
2019: Function Null2Blank(aString:String):String;
2020: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue : Extended; PaymentTime : TPaymentTime ) : Extended
2021: Function NumIP : integer
2022: function Odd(x: Longint): boolean;
2023: Function OffsetFromUTC : TDateTime
2024: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
2025: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
2026: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean
2027: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
2028: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
2029: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
2030: Function OldCurrToBCD(const Curr:Currency; var BCD:TBCd; Precision:Integer;Decimals:Integer): Boolean
2031: function OpenBit:Integer
2032: Function OpenDatabase : TDatabase
2033: Function OpenDatabase( const DatabaseName : string ) : TDatabase
2034: Procedure OpenDir(adir: string);
2035: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
2036: Function OpenMap(const Data: string): boolean;
2037: Function OpenMapX(const Data: string): boolean;
2038: Function OpenObject( Value : PChar ) : Boolean;
2039: Function OpenObject1( Value : string ) : Boolean;
2040: Function OpenSession( const SessionName : string ) : TSession
2041: Function OpenVolume( const Drive : Char ) : THandle
2042: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte) : Cardinal
2043: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
2044: Function OrdToBinary( const Value : Byte ) : string;
2045: Function OrdToBinary1( const Value : Shortint ) : string;
2046: Function OrdToBinary2( const Value : Smallint ) : string;
2047: Function OrdToBinary3( const Value : Word ) : string;
2048: Function OrdToBinary4( const Value : Integer ) : string;
2049: Function OrdToBinary5( const Value : Cardinal ) : string;
2050: Function OrdToBinary6( const Value : Int64 ) : string;
2051: Function OSCheck( RetVal : Boolean ) : Boolean
2052: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
2053: Function OSIdentToString( const OSident : DWORD ) : string
2054: Function Output: Text)
2055: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2056: Function Owner : TCustomListView
2057: function Owner : TPersistent
2058: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2059: Function PadL( pStr : String; pLth : integer ) : String
2060: Function PadLs( AnyString:I : longInt ) : AnyString;
2061: Function PadLCh( pStr : String; pLth : integer; pChr : char ) : String
2062: Function PadR( pStr : String; pLth : integer ) : String
2063: Function Padr(s : AnyString;I : longInt ) : AnyString;
2064: Function PadRCh( pStr : String; pLth : integer; pChr : char ) : String
2065: Function PadString( const AString : String; const ALen : Integer; const AChar : Char ) : String
2066: Function Padz(s : AnyString;I : longInt) : AnyString;
2067: Function PaethPredictor( a, b, c : Byte ) : Byte
2068: Function PARAMBYNAME( const VALUE : String ) : TPARAM
2069: Function ParamByName( const Value : WideString ) : TParameter
2070: Function ParamCount: Integer
2071: Function ParamsEncode( const ASrc : string ) : string
2072: function ParamStr(Index: Integer): string
2073: Function ParseDate( const DateStr : string ) : TDateTime
2074: Function PARSESQL( SQL : String; DORECREATE : BOOLEAN ) : String
2075: Function ParseSQL( SQL : WideString; DoCreate : Boolean ) : WideString
2076: Function PathAddExtension( const Path, Extension : string ) : string
2077: Function PathAddSeparator( const Path : string ) : string
2078: Function PathAppend( const Path, Append : string ) : string
2079: Function PathBuildRoot( const Drive : Byte ) : string
2080: Function PathCanonicalize( const Path : string ) : string
2081: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2082: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string;
2083: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int;CmpFmt:TCompactPath):string;
2084: Function PathEncode( const ASrc : string ) : string
2085: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2086: Function PathExtractFileNameNoExt( const Path : string ) : string
2087: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2088: Function PathGetDepth( const Path : string ) : Integer
2089: Function PathGetLongName( const Path : string ) : string
2090: Function PathGetLongName2( Path : string ) : string
2091: Function PathGetShortName( const Path : string ) : string
2092: Function PathIsAbsolute( const Path : string ) : Boolean
2093: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2094: Function PathIsDiskDevice( const Path : string ) : Boolean
2095: Function PathIsUNC( const Path : string ) : Boolean
2096: Function PathRemoveExtension( const Path : string ) : string
2097: Function PathRemoveSeparator( const Path : string ) : string

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

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2182: Function RadToDeg2( const Value : Single) : Single;
2183: Function RadToGrad( const Radians : Extended) : Extended;
2184: Function RadToGrad( const Value : Extended) : Extended;
2185: Function RadToGrad1( const Value : Double) : Double;
2186: Function RadToGrad2( const Value : Single) : Single;
2187: Function RandG( Mean, StdDev : Extended) : Extended;
2188: function Random(const ARange: Integer): Integer;
2189: function random2(a: integer): double;
2190: function RandomE: Extended;
2191: function RandomF: Extended;
2192: Function RandomFrom( const AValues : array of string) : string;
2193: Function RandomRange( const AFrom, ATo : Integer) : Integer;
2194: function randSeed: longint;
2195: Function RawToDataColumn( ACol : Integer) : Integer;
2196: Function Read : Char;
2197: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint) : HResult;
2198: function Read(Buffer:String;Count:LongInt):LongInt;
2199: Function ReadBinaryStream( const Section, Name : string; Value : TStream) : Integer;
2200: Function ReadBool( const Section, Ident : string; Default : Boolean) : Boolean;
2201: Function ReadCardinal( const AConvert : boolean) : Cardinal;
2202: Function ReadChar : Char;
2203: Function ReadClient( var Buffer, Count : Integer) : Integer;
2204: Function ReadDate( const Section, Name : string; Default : TDateTime) : TDateTime;
2205: Function ReadDateTime( const Section, Name : string; Default : TDateTime) : TDateTime;
2206: Function ReadFloat( const Section, Name : string; Default : Double) : Double;
2207: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptonTimeout:Bool):Int;
2208: Function ReadInteger( const AConvert : boolean) : Integer;
2209: Function ReadInteger( const Section, Ident : string; Default : Longint) : Longint;
2210: Function ReadLn : string;
2211: Function ReadLn(ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer) : string;
2212: function ReadLn(question: string): string;
2213: Function readm: string; //read last line in memo2 - console!
2214: Function ReadLnWait( AFailCount : Integer) : string;
2215: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2216: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2217: Function ReadSmallInt( const AConvert : boolean) : SmallInt;
2218: Function ReadString( const ABytes : Integer) : string;
2219: Function ReadString( const Section, Ident, Default : string) : string;
2220: Function ReadString( Count : Integer) : string;
2221: Function ReadTime( const Section, Name : string; Default : TDateTime) : TDateTime;
2222: Function ReadTimeStampCounter : Int64;
2223: Function RebootOS : Boolean;
2224: Function Receive( ATimeOut : Integer) : TReplyStatus;
2225: Function ReceiveBuf( var Buf, Count : Integer) : Integer;
2226: Function ReceiveLength : Integer;
2227: Function ReceiveText : string;
2228: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal;
2229: Function ReceiveSerialText: string;
2230: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word) : TDateTime;
2231: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,AMilliSec:Word):TDateTime;
2232: Function RecodeDay( const AValue : TDateTime; const ADay : Word) : TDateTime;
2233: Function RecodeHour( const AValue : TDateTime; const AHour : Word) : TDateTime;
2234: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word) : TDateTime;
2235: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word) : TDateTime;
2236: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word) : TDateTime;
2237: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word) : TDateTime;
2238: Function RecodeTime( const AValue: TDateTime;const AHour,AMinute,ASecond,AMilliSecond:Word):TDateTime;
2239: Function RecodeYear( const AValue : TDateTime; const AYear : Word) : TDateTime;
2240: Function Reconcile( const Results : OleVariant) : Boolean;
2241: Function Rect( Left, Top, Right, Bottom : Integer) : TRect;
2242: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect;
2243: Function Rect2( const ATopLeft, ABottomRight : TPoint) : TRect;
2244: Function RectAssign( const Left, Top, Right, Bottom : Integer) : TRect;
2245: Function RectAssignPoints( const TopLeft, BottomRight : TPoint) : TRect;
2246: Function RectBounds( const Left, Top, Width, Height : Integer) : TRect;
2247: Function RectCenter( const R : TRect) : TPoint;
2248: Function RectEqual( const R1, R2 : TRect) : Boolean;
2249: Function RectHeight( const R : TRect) : Integer;
2250: Function RectIncludesPoint( const R : TRect; const Pt : TPoint) : Boolean;
2251: Function RectIncludesRect( const R1, R2 : TRect) : Boolean;
2252: Function RectIntersection( const R1, R2 : TRect) : TRect;
2253: Function RectIntersectRect( const R1, R2 : TRect) : Boolean;
2254: Function RectIsEmpty( const R : TRect) : Boolean;
2255: Function RectIsNull( const R : TRect) : Boolean;
2256: Function RectIsSquare( const R : TRect) : Boolean;
2257: Function RectIsValid( const R : TRect) : Boolean;
2258: Function RectsAreValid( R : array of TRect) : Boolean;
2259: Function RectUnion( const R1, R2 : TRect) : TRect;
2260: Function RectWidth( const R : TRect) : Integer;
2261: Function RedComponent( const Color32 : TColor32) : Integer;
2262: Function Refresh : Boolean;
2263: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2264: Function RegisterConversionFamily( const ADescription : string) : TConvFamily;
2265: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType) : Boolean;
2266: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType;
2267: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2268: Function ReleaseDC(hdwnd: HWND; hdc: HDC): integer;

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

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2357: Function RunDLL32( const ModuleNa, FuncName, CmdLine:string; WaitForCompletion:Boolean; CmdShow:Integer) : Boolean
2358: Function RunningProcessesList( const List : TStrings; FullPath : Boolean) : Boolean
2359: Function RunByteCode(Bytecode: AnsiString; out RuntimeErrors: AnsiString) : Boolean;')
2360: Function RunCompiledScript2(Bytecode: AnsiString; out RuntimeErrors: AnsiString) : Boolean;')
2361: Function S_AddBackSlash( const ADirName : string) : string
2362: Function S_AllTrim( const cStr : string) : string
2363: Function S_AtRepl( const cAT, cStr, cRepl : string) : string
2364: Function S_Cut( const cStr : string; const iLen : integer) : string
2365: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2366: Function S_DirExists( const Adir : string) : Boolean
2367: Function S_Empty( const cStr : string) : boolean
2368: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2369: Function S_LargeFontsActive : Boolean
2370: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2371: Function S_LTrim( const cStr : string) : string
2372: Function S_ReadNextTextLineFromStream( stream : TStream) : string
2373: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2374: Function S_ReplFirst( const cAT, cStr, cRepl : string) : string
2375: Function S_RoundDecimal( AValue : Extended; APlaces : Integer) : Extended
2376: Function S_RTrim( const cStr : string) : string
2377: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2378: //Type TS_ShellExecuteCmd = (seCmdOpen, seCmdPrint, seCmdExplore);
2379: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2380: Function S_Space( const iLen : integer) : String
2381: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2382: Function S_StrBlanksCuttooLong( const cStr : string; const iLen : integer) : string
2383: Function S_StrCRC32( const Text : string) : LongWORD
2384: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2385: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2386: Function S_StringtoUTF_8( const AString : string) : string
2387: Function S_StrLBlanks( const cStr : string; const iLen : integer) : string
2388: function S_StrToReal( const cStr: string; var R: Double): Boolean
2389: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2390: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2391: Function S_UTF_8ToString( const AString : string) : string
2392: Function S_WBox( const AText : string) : integer
2393: Function SameDate( const A, B : TDateTime) : Boolean
2394: function SameDate(const A, B: TDateTime): Boolean;
2395: Function SameDateTime( const A, B : TDateTime) : Boolean
2396: function SameDateTime(const A, B: TDateTime): Boolean;
2397: Function SamefileName( S1, S2 : string) : Boolean
2398: Function SameText( S1, S2 : string) : Boolean
2399: function SameText(const S1: string; const S2: string): Boolean
2400: Function SameTime( const A, B : TDateTime) : Boolean
2401: function SameTime(const A, B: TDateTime): Boolean;
2402: function SameValue(const A, B: Extended; Epsilon: Extended): Boolean //overload;
2403: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2404: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2405: Function SampleVariance( const X : TDynFloatArray) : Float
2406: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2407: Function Sar1( const Value : Smallint; const Count : TBitRange) : Smallint;
2408: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2409: Function SaveToFile( const AFileName : TFileName) : Boolean
2410: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2411: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2412: Function ScanF(const aformat: String; const args: array of const): string;
2413: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT
2414: Function SearchBuf(Buf:PChar; BufLen:Integer; SelStart,SelLength:Integer;SearchString:String;Options:TStringSearchOptions):PChar
2415: Function SearchBuf2(Buf: string;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer;
2416: function SearchRecattr: integer;
2417: function SearchRecExcludeAttr: integer;
2418: Function SearchRecfileSize64( const SearchRec : TSearchRec ) : Int64
2419: function SearchRecname: string;
2420: function SearchRecsize: integer;
2421: function SearchRecTime: integer;
2422: Function Sec( const X : Extended ) : Extended
2423: Function Secant( const X : Extended ) : Extended
2424: Function SecH( const X : Extended ) : Extended
2425: Function SecondOf( const AValue : TDateTime ) : Word
2426: Function SecondOfTheDay( const AValue : TDateTime ) : LongWord
2427: Function SecondOfTheHour( const AValue : TDateTime ) : Word
2428: Function SecondOfTheMinute( const AValue : TDateTime ) : Word
2429: Function SecondOfTheMonth( const AValue : TDateTime ) : LongWord
2430: Function SecondOfTheWeek( const AValue : TDateTime ) : LongWord
2431: Function SecondOfTheYear( const AValue : TDateTime ) : LongWord
2432: Function SecondsBetween( const ANow, AThen : TDateTime ) : Int64
2433: Function SecondSpan( const ANow, AThen : TDateTime ) : Double
2434: Function SectionExists( const Section : string) : Boolean
2435: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption) : Boolean
2436: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint ) : HResult
2437: function Seek(Offset:LongInt;Origin:Word):LongInt
2438: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2439: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string; Options : TSelectDirExtOpts; Parent : TWinControl): Boolean;
2440: Function SelectImage( var AFileName : string; const Extensions, Filter : string) : Boolean
2441: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2442: Function SendBuf( var Buf, Count : Integer ) : Integer

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2443: Function SendCmd( const AOut : string; const AResponse : SmallInt) : SmallInt;
2444: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt) : SmallInt;
2445: Function SendKey( AppName : string; Key : Char) : Boolean
2446: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2447: Function SendStream( AStream : TStream) : Boolean
2448: Function SendStreamThenDrop( AStream : TStream) : Boolean
2449: Function SendText( const S : string) : Integer
2450: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2451: Function SendSerialText(Data: String): cardinal
2452: Function Sent : Boolean
2453: Function ServicesFilePath: string
2454: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer) : TColor32
2455: Function SetBit( const Value : Byte; const Bit : TBitRange) : Byte;
2456: Function SetBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2457: Function SetBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2458: Function SetBit3( const Value : Word; const Bit : TBitRange) : Word;
2459: Function SetBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2460: Function SetBit4( const Value : Integer; const Bit : TBitRange) : Integer;
2461: Function SetBit5( const Value : Int64; const Bit : TBitRange) : Int64;
2462: Function SetClipboard( NewClipboard : TClipboard) : TClipboard
2463: Function SetColorBlue( const Color : TColor; const Blue : Byte) : TColor
2464: Function SetColorFlag( const Color : TColor; const Flag : Byte) : TColor
2465: Function SetColorGreen( const Color : TColor; const Green : Byte) : TColor
2466: Function SetColorRed( const Color : TColor; const Red : Byte) : TColor
2467: Function SetCurrentDir( Dir : string) : Boolean
2468: function SetCurrentDir(const Dir: string): Boolean
2469: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2470: Function SetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean
2471: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean
2472: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean
2473: Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint
2474: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2475: Function SetEnvironmentVar( const Name, Value : string) : Boolean
2476: Function SetErrorProc( ErrorProc : TSocketErrorProc) : TSocketErrorProc
2477: Function SetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean
2478: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean
2479: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean
2480: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer) : Boolean
2481: function SETFOCUSUSEDCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2482: Function SetLocalTime( Value : TDateTime) : boolean
2483: Function SetPrecisionTolerance( NewTolerance : Float) : Float
2484: Function SetPrinter( NewPrinter : TPrinter) : TPrinter
2485: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2486: Function SetRGBValue( const Red, Green, Blue : Byte) : TColor
2487: Function SetSequence( S, Localizar, Substituir : shortstring) : shortstring
2488: Function SetSize( libNewSize : Longint) : HRESULT
2489: Function SetUserObjectFullAccess( hUserObject : THandle) : Boolean
2490: Function Sgn( const X : Extended) : Integer
2491: function SHA1(const fileName: string): string;
2492: function SHA256(astr: string; amode: char): string
2493: function SHA512(astr: string; amode: char): string
2494: Function ShareMemoryManager : Boolean
2495: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2496: function Shelleexecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2497: Function ShellExecute3(aFilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2498: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE ) : TSHORCUT
2499: Function SHORTCUTTOTEXT( SHORTCUT : TSHORCUT ) : String
2500: function ShortDateFormat: string;
2501: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const RTL:Bool;EllipsisWidth:Int):WideString
2502: function ShortTimeFormat: string;
2503: function SHOWMODAL:INTEGER
2504: Function ShowModalControl(aControl:TControl;BS:TFormBorderStyle;BI:TBorderIcons;WS:TWindowState;aColor: TColor; BW: Integer;Title:String;BeforeShowModal:TNotifyEvent): TModalResult';
2505: Function ShowModalPanel(aPnl:TCustomPanel;Titl:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2506: function ShowWindow(C1: HWND; C2: integer): boolean;
2507: procedure ShowMemory //in Dialog
2508: function ShowMemory2: string;
2509: Function ShutDownOS : Boolean
2510: Function Signe( const X, Y : Extended) : Extended
2511: Function Sign( const X : Extended) : Integer
2512: Function Sin(e : Extended) : Extended;
2513: Function sinc( const x : Double) : Double
2514: Function SinJ( X : Float) : Float
2515: Function Size( const AFileName : String) : Integer
2516: function sizeof: Longint;
2517: Function sizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer
2518: function SlashSep(const Path, S: String): String
2519: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended
2520: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
2521: Function SmallPoint(X, Y: Integer): TSmallPoint)
2522: Function Soundex( const AText : string; ALenght : TSoundexLength) : string
2523: Function SoundexCompare( const AText, AOther : string; ALenght : TSoundexLength) : Integer
2524: Function SoundexInt( const AText : string; ALenght : TSoundexIntLength) : Integer
2525: Function SoundexProc( const AText, AOther : string) : Boolean
2526: Function SoundexSimilar( const AText, AOther : string; ALenght : TSoundexLength) : Boolean
2527: Function SoundexWord( const AText : string) : Word
2528: Function SourcePos : Longint

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2529: function SourcePos:LongInt
2530: Function Split0( Str : string; const substr : string) : TStringList
2531: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
2532: Function SQLRequiresParams( const SQL : WideString) : Boolean
2533: Function Sqr(e : Extended) : Extended;
2534: Function Sqrt(e : Extended) : Extended;
2535: Function StartIP : String
2536: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean
2537: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2538: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2539: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime
2540: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2541: Function StartOfAYear( const AYear : Word) : TDateTime
2542: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2543: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2544: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2545: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2546: Function StartsStr( const ASubText, AText : string) : Boolean
2547: Function StartsText( const ASubText, AText : string) : Boolean
2548: Function StartsWith( const ANSIString, APattern : String) : Boolean
2549: Function StartsWith( const str : string; const sub : string) : Boolean
2550: Function StartsWithACE( const ABytes : TIdBytes) : Boolean
2551: Function StatusString( StatusCode : Integer) : string
2552: Function StdDev( const Data : array of Double) : Extended
2553: Function Stop : Float
2554: Function StopCount( var Counter : TJclCounter) : Float
2555: Function StoreColumns : Boolean
2556: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2557: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2558: Function StrAlloc( Size : Cardinal) : PChar
2559: function StrAlloc(Size: Cardinal): PChar
2560: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2561: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2562: Function StrBufSize( Str : PChar) : Cardinal
2563: function StrBufSize(const Str: PChar): Cardinal
2564: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType
2565: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType
2566: Function StrCat( Dest : PChar; Source : PChar) : PChar
2567: function StrCat(Dest: PChar; const Source: PChar): PChar
2568: Function StrCharLength( Str : PChar) : Integer
2569: Function StrComp( Str1, Str2 : PChar) : Integer
2570: function StrComp(const Str1: PChar; const Str2: PChar): Integer
2571: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2572: function StrCopy(Dest: PChar; const Source: PChar): PChar
2573: Function Stream_to_AnsiString( Source : TStream) : ansistring
2574: Function Stream_to_Base64( Source : TStream) : ansistring
2575: Function Stream_to_decimalbytes( Source : TStream) : string
2576: Function Stream2WideString( oStream : TStream) : WideString
2577: Function StreamtoAnsiString( Source : TStream) : ansistring
2578: Function StreamToByte( Source : TStream) : string
2579: Function StreamToDecimalbytes( Source : TStream) : string
2580: Function StreamtoOrd( Source : TStream) : string
2581: Function StreamToString( Source : TStream) : string
2582: Function StreamToString2( Source : TStream) : string
2583: Function StreamToString3( Source : TStream) : string
2584: Function StreamToString4( Source : TStream) : string
2585: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2586: Function StrEmpty( const String : string) : boolean
2587: Function StrEnd( Str : PChar) : PChar
2588: function StrEnd(const Str: PChar): PChar
2589: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2590: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar
2591: Function StrGet(var S : String; I : Integer) : Char;
2592: Function StrGet2(S : String; I : Integer) : Char;
2593: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2594: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2595: Function StrHtmlDecode( const AStr : String) : String
2596: Function StrHtmlEncode( const AStr : String) : String
2597: Function StrToBytes(const Value: String): TBytes;
2598: Function StrICmp( Str1, Str2 : PChar) : Integer
2599: Function StringOfChar(c : char;I : longInt) : String;
2600: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2601: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2602: Function StringRefCount(const s: String): integer;
2603: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2604: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2605: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2606: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2607: Function StringToBoolean( const Ps : string) : Boolean
2608: function StringToColor(const S: string): TColor
2609: function StringToCursor(const S: string): TCursor;
2610: function StringToGUID(const S: string): TGUID
2611: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2612: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2613: Function StringWidth( S : string) : Integer
2614: Function StrInternetToDateTIme( Value : string) : TDateTime
2615: Function StrIsDateTime( const Ps : string) : Boolean
2616: Function StrIsFloatMoney( const Ps : string) : Boolean
2617: Function StrIsInteger( const S : string) : Boolean

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

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

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2790: Function Trace2( AURL : string ) : string;
2791: Function TrackMenu( Button : TToolButton ) : Boolean
2792: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN ) : INTEGER
2793: Function TranslateURI( const URI : string ) : string
2794: Function TranslationMatchesLanguages( Exact : Boolean ) : Boolean
2795: Function TransparentStretchBlt( DstDC : HDC; DstX,DstY,DstW,DstH : Integer; SrcDC:HDC;SrcX,SrcY,SrcW,
    SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer ) : Boolean
2796: Function Trim( S : string ) : string;
2797: Function Trim( S : WideString ) : WideString;
2798: Function Trim(s : AnyString) : AnyString;
2799: Function TrimAllOf( ATrim, AText : String ) : String
2800: Function TrimLeft( S : string ) : string;
2801: Function TrimLeft( S : WideString ) : WideString;
2802: function TrimLeft(const S: string): string)
2803: Function TrimRight( S : string ) : string;
2804: Function TrimRight( S : WideString ) : WideString;
2805: function TrimRight(const S: string): string)
2806: function TrueBoolStrs: array of string
2807: Function Trunc(e : Extended) : Longint;
2808: Function Trunc64(e: extended): Int64;
2809: Function TruncPower( const Base, Exponent : Float ) : Float
2810: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily ) : Boolean
2811: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily ) : Boolean;
2812: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2813: Function TryEncodeDateDay( const AYear, ADayOfYear: Word; out AValue : TDateTime ) : Boolean
2814: Function TryEncodeDateMonthWeek( const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2815: Function TryEncodeDateTime( const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out
    AValue:TDateTime):Boolean
2816: Function TryEncodeDateWeek( const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2817: Function TryEncodeDayOfWeekInMonth( const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
    AVal:TDateTime):Bool
2818: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2819: Function TryFloatToDateTime( Value : Extended; AResult : TDateTime ) : Boolean
2820: Function TryJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime ) : Boolean
2821: Function TryLock : Boolean
2822: Function TryModifiedJulianDateToDateTime( const AValue : Double; out ADateTime : TDateTime ) : Boolean
2823: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
    AMilliSecond : Word; out AResult : TDateTime ) : Boolean
2824: Function TryStrToBcd( const AValue : string; var Bcd : TBcd ) : Boolean
2825: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType ) : Boolean
2826: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2827: Function TryStrToDate( S : string; Value : TDateTime ) : Boolean;
2828: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2829: Function TryStrToInt( const S : AnsiString; var I: Integer): Boolean;
2830: Function TryStrToInt64( const S : AnsiString; var I: Int64): Boolean;
2831: function TryStrToBool( const S: string; out Value: Boolean): Boolean;
2832: Function TwoByteToWord( AByte1, AByte2 : Byte ) : Word
2833: Function TwoCharToWord( AChar1, AChar2 : Char ) : Word
2834: Function TwoToY( const Y : Float ) : Float
2835: Function UCS4StringToWideString( const S : UCS4String ) : WideString
2836: Function UIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean
2837: function Unassigned: Variant;
2838: Function UndoLastChange( FollowChange : Boolean ) : Boolean
2839: function UniCodeToStr( Value: string): string;
2840: Function UnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean
2841: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean)
2842: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal ) : TDateTime
2843: Function UnixPathToDosPath( const Path : string ) : string
2844: Function UnixToDateTime( const AValue : Int64 ) : TDateTime
2845: function UnixToDateTime(U: Int64): TDateTime;
2846: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HResult
2847: Function UnlockResource( ResData: HGLOBAL ) : LongBool
2848: Function UnlockVolume( var Handle : THandle ) : Boolean
2849: Function UnMaskString( Mask, Value : String ) : String
2850: function UpCase(ch : Char ) : Char;
2851: Function UpCaseFirst( const AStr : string ) : string
2852: Function UpCaseFirstWord( const AStr : string ) : string
2853: Function UpdateAction( Action : TBasicAction ) : Boolean
2854: Function UpdateKind : TUUpdateKind
2855: Function UPDATESTATUS : TUUPDATESTATUS
2856: Function UpperCase( S : string ) : string
2857: Function Uppercase(s : AnyString) : AnyString;
2858: Function URLDecode( ASrc : string ) : string
2859: Function URLEncode( const ASrc : string ) : string
2860: Function UseRightToLeftAlignment : Boolean
2861: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment ) : Boolean
2862: Function UseRightToLeftReading : Boolean
2863: Function UTF8CharLength( Lead : Char ) : Integer
2864: Function UTF8CharSize( Lead : Char ) : Integer
2865: Function UTF8Decode( const S : UTF8String ) : WideString
2866: Function UTF8Encode( const WS : WideString ) : UTF8String
2867: Function UTF8LowerCase( const S : UTF8String ) : UTF8String
2868: Function Utf8ToAnsi( const S : UTF8String ) : string
2869: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string
2870: Function UTF8UpperCase( const S : UTF8String ) : UTF8String
2871: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean
2872: Function ValidParentForm(control: TControl): TForm
2873: Function Value : Variant
2874: Function ValueExists( const Section, Ident : string ) : Boolean

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

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2964: function VectorMult(const V: TFloatPoint; const s: Double): TFloatPoint;
2965: Function VectorSubtract( const V1, V2 : TFloatPoint ) : TFloatPoint
2966: function VectorSubtract(const V1,V2: TFloatPoint): TFloatPoint;
2967: Function Verify( AUserName : String ) : String
2968: Function Versine( X : Float ) : Float
2969: function VersionCheck: boolean;
2970: function VersionCheckAct: string;
2971: Function VersionLanguageId( const LangIdRec : TLangIdRec ) : string
2972: Function VersionLanguageName( const LangId : Word ) : string
2973: Function VersionResourceAvailable( const FileName : string ) : Boolean
2974: Function Visible : Boolean
2975: function VolumeID(DriveChar: Char): string
2976: Function WaitFor( const AString : string ) : string
2977: Function WaitFor( const TimeOut : Cardinal ) : TJclWaitResult
2978: Function WaitFor1 : TWaitResult;
2979: Function WaitForData( Timeout : Longint ) : Boolean
2980: Function WebColorNameToColor( WebColorName : string ) : TColor
2981: Function WebColorStrToColor( WebColor : string ) : TColor
2982: Function WebColorToRGB( WebColor : Integer ) : Integer
2983: Function wGet(aURL, afile: string): boolean;
2984: Function wGet2(aURL, afile: string): boolean; //without file open
2985: Function wGetX(aURL, afile: string): boolean;
2986: Function wGetX2(aURL, afile: string): boolean; //without file open
2987: Function WebGet(aURL, afile: string): boolean;
2988: Function WebExists: boolean; //alias to isinternet
2989: Function WeekOf( const AValue : TDateTime ) : Word
2990: Function WeekOfTheMonth( const AValue : TDateTime ) : Word;
2991: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word ) : Word;
2992: Function WeekOfTheYear( const AValue : TDateTime ) : Word;
2993: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word ) : Word;
2994: Function WeeksBetween( const ANow, AThen : TDateTime ) : Integer
2995: Function WeeksInAYear( const AYear : Word ) : Word
2996: Function WeeksInYear( const AValue : TDateTime ) : Word
2997: Function WeekSpan( const ANow, AThen : TDateTime ) : Double
2998: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineBreakStyle ) : WideString
2999: Function WideCat( const x, y : WideString ) : WideString
3000: Function WideCompareStr( S1, S2 : WideString ) : Integer
3001: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
3002: Function WideCompareText( S1, S2 : WideString ) : Integer
3003: function WideCompareText(const S1: WideString; const S2: WideString): Integer
3004: Function WideCopy( const src : WideString; index, count : Integer ) : WideString
3005: Function WideDequotedStr( const S : WideString; AQuote : WideChar ) : WideString
3006: Function WideEqual( const x, y : WideString ) : Boolean
3007: function WideFormat(const Format: WideString; const Args: array of const): WideString)
3008: Function WideGreater( const x, y : WideString ) : Boolean
3009: Function WideLength( const src : WideString ) : Integer
3010: Function WideLess( const x, y : WideString ) : Boolean
3011: Function WideLowerCase( S : WideString ) : WideString
3012: function WidLowerCase(const S: WideString): WideString
3013: Function WidePos( const src, sub : WideString ) : Integer
3014: Function WideQuotedStr( const S : WideString; Quote : WideChar ) : WideString
3015: Function WideReplaceStr( const AText, AFromText, AToText : WideString ) : WideString
3016: Function WideReplaceText( const AText, AFromText, AToText : WideString ) : WideString
3017: Function WideSameStr( S1, S2 : WideString ) : Boolean
3018: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
3019: Function WideSameText( const S1 : WideString; const S2 : WideString ) : Boolean
3020: function WideSameText( const S1 : WideString; const S2 : WideString ) : Boolean
3021: Function WideStringReplace(const S,OldPattern, NewPattern: Widestring; Flags: TReplaceFlags): Widestring
3022: Function WideStringToUCS4String( const S : WideString ) : UCS4String
3023: Function WideUpperCase( S : WideString ) : WideString
3024: Function Win32BackupFile( const FileName : string; Move : Boolean ) : Boolean
3025: function Win32Check(RetVal: boolean): boolean
3026: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
3027: Function Win32RestoreFile( const FileName : string ) : Boolean
3028: Function Win32Type : TIdWin32Type
3029: Function WinColor( const Color32 : TColor32 ) : TColor
3030: function winexec(FileNamed: pchar; showCmd: integer): integer;
3031: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3032: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3033: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer ) : Boolean
3034: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64 ) : Boolean
3035: Function WithinPastMilliSeconds( const ANow, AThen : TDateTime; const AMilliSeconds : Int64 ) : Boolean
3036: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64 ) : Boolean
3037: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer ) : Boolean
3038: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASeconds : Int64 ) : Boolean
3039: Function WithinPastWeeks( const ANow, AThen : TDateTime; const AWeeks : Integer ) : Boolean
3040: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer ) : Boolean
3041: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
3042: Function WordToStr( const Value : Word ) : String
3043: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
3044: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
3045: Procedure GetWordGridFormatValues( Proc : TGetStrProc )
3046: Function WorkArea : Integer
3047: Function WrapText( Line : string; MaxCol : Integer ) : string;
3048: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
3049: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HResult
3050: function Write(Buffer:String;Count:LongInt):LongInt
3051: Function WriteClient( var Buffer, Count : Integer ) : Integer
3052: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal

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3053: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string) : Boolean
3054: Function WriteString( const AString : string) : Boolean
3055: Function WStrGet(var S : AnyString; I : Integer) : WideChar;
3056: Function vwsprintf( Output : PChar; Format : PChar; arglist : va_list) : Integer
3057: Function wsprintf( Output : PChar; Format : PChar) : Integer
3058: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string) : string
3059: Function XmlTimeToStr( const XmlTime : string; const Format : string) : string
3060: Function XorDecode( const Key, Source : string) : string
3061: Function XorEncode( const Key, Source : string) : string
3062: Function XorString( const Key, Src : ShortString) : ShortString
3063: Function Yield : Bool
3064: Function YearOf( const AValue : TDateTime) : Word
3065: Function YearsBetween( const ANow, AThen : TDateTime) : Integer
3066: Function YearSpan( const ANow, AThen : TDateTime) : Double
3067: Function Yesterday : TDateTime
3068: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3069: Function( const Name : string; Proc : TUserFunction)
3070: Function using Special_Scholz from 3.8.5.0
3071: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3072: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3073: Function FloatToTime2Dec(value:Extended):Extended;
3074: Function MinToStd(value:Extended):Extended;
3075: Function MinToStdAsString(value:Extended):String;
3076: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3077: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3078: Function Round2Dec (zahl:Extended):Extended;
3079: Function GetAngle(x,y:Extended):Double;
3080: Function AddAngle(a1,a2:Double):Double;
3081:
3082: ****
3083: unit UPST_StText;
3084: ****
3085: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
3086: Function TextFileSize( var F : TextFile) : LongInt
3087: Function TextPos( var F : TextFile) : LongInt
3088: Function TextFlush( var F : TextFile) : Boolean
3089:
3090: ****
3091: from JvVCLUtils;
3092: ****
3093: { Windows resources (bitmaps and icons) VCL-oriented routines }
3094: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3095: procedure DrawBitmapRectTransparent(Dest: TCanvas;DstX,
  DstY:Int;SrcRect:TRect;Bitmap:TBitmap;TransparColor:TColor);
3096: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3097: function MakeBitmap(ResID: PChar): TBitmap;
3098: function MakeBitmapID(ResID: Word): TBitmap;
3099: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3100: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3101: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3102: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3103: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3104: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3105: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3106: {$IFDEF WIN32}
3107: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
  X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3108: {$ENDIF}
3109: function MakeIcon(ResID: PChar): TIcon;
3110: function MakeIconID(ResID: Word): TIcon;
3111: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3112: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3113: {$IFDEF WIN32}
3114: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3115: {$ENDIF}
3116: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3117: {$ENDIF}
3118: { Service routines }
3119: procedure NotImplemented;
3120: procedure ResourceNotFound(ResID: PChar);
3121: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3122: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3123: function PaletteColor(Color: TColor): Longint;
3124: function WidthOf(R: TRect): Integer;
3125: function HeightOf(R: TRect): Integer;
3126: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3127: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3128: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3129: procedure Delay(MSecs: Longint);
3130: procedure DeleteLine(StrList: TStringList; SearchPattern: String);
3131: procedure CenterControl(Control: TControl);
3132: Function PaletteEntries( Palette : HPALETTE ) : Integer
3133: Function WindowClassName( Wnd : HWND ) : string
3134: Function ScreenWorkArea : TRect
3135: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3136: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3137: Procedure ActivateWindow( Wnd : HWND )
3138: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3139: Procedure CenterWindow( Wnd : HWND )

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3140: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3141: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3142: Function DialogsToPixelsX( Dlgs : Word) : Word
3143: Function DialogsToPixelsY( Dlgs : Word) : Word
3144: Function PixelsToDialogsX( Pixs : Word) : Word
3145: Function PixelsToDialogsY( Pixs : Word) : Word
3146: {$IFDEF WIN32}
3147: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3148: function MakeVariant(const Values: array of Variant): Variant;
3149: {$ENDIF}
3150: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3151: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3152: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3153: {$IFDEF CBUILDERS}
3154: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3155: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3156: {$ELSE}
3157: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3158: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3159: {$ENDIF CBUILDERS}
3160: function IsForegroundTask: Boolean;
3161: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3162: function GetAveCharSize(Canvas: TCanvas): TPoint;
3163: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3164: procedure FreeUnusedOLE;
3165: procedure Beep;
3166: function GetWindowsVersionJ: string;
3167: function LoadDLL(const LibName: string): THandle;
3168: function RegisterServer(const ModuleName: string): Boolean;
3169: {$IFNDEF WIN32}
3170: function IsLibrary: Boolean;
3171: {$ENDIF}
3172: { Gradient filling routine }
3173: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3174: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3175: { String routines }
3176: function GetEnvVar(const VarName: string): string;
3177: function AnsiUpperFirstChar(const S: string): string;
3178: function StringToPChar(var S: string): PChar;
3179: function StrPAalloc(const S: string): PChar;
3180: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3181: function DropT(const S: string): string;
3182: { Memory routines }
3183: function AllocMemo(Size: Longint): Pointer;
3184: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3185: procedure FreeMemo(var fpBlock: Pointer);
3186: function GetMemoSize(fpBlock: Pointer): Longint;
3187: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3188: {$IFNDEF COMPILERS_UP}
3189: procedure FreeAndNil(var Obj);
3190: {$ENDIF}
3191: // from PNGLoader
3192: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3193: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3194: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3195: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3196: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //Buttons
3197: Function IsAnAllResult( const AModalResult : TModalResult) : Boolean
3198: Function InitWndProc( HWindow : HWnd; Message, WParam : Longint; LParam : Longint) : Longint
3199: AddConstantN('CTL3D_ALL','LongWord').SetUInt($FFFF);
3200: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)
3201: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint) : Longint
3202: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3203: Procedure SetIMEMode( hWnd : HWND; Mode : TImeMode)
3204: Procedure SetIMEName( Name : TImeName)
3205: Function Win32NLEnableIME( hWnd : HWND; Enable : Boolean) : Boolean
3206: Function Imm32GetContext( hWnd : HWND) : HIMC
3207: Function Imm32ReleaseContext( hWnd : HWND; himc : HIMC) : Boolean
3208: Function Imm32GetConversionStatus( himc : HIMC; var Conversion, Sentence : longword) : Boolean
3209: Function Imm32SetConversionStatus( himc : HIMC; Conversion, Sentence : longword) : Boolean
3210: Function Imm32SetOpenStatus( himc : HIMC; fOpen : Boolean) : Boolean
3211: // Function Imm32SetCompositionWindow( himc : HIMC; lpCompForm : PCOMPOSITIONFORM) : Boolean
3212: //Function Imm32SetCompositionFont( himc : HIMC; lpLogfont : PLOGFONT) : Boolean
3213: Function Imm32GetCompositionString(himc:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3214: Function Imm32IsIME( hkl : longword) : Boolean
3215: Function Imm32NotifyIME( himc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3216: Procedure DragDone( Drop : Boolean)
3217:
3218:
3219: //*****added from jvvcutils
3220: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3221: function ReplaceComponentReference(This,NewReference:TComponent;var VarReference:TComponent):Boolean;
3222: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3223: function IsPositiveResult(Value: TModalResult): Boolean;
3224: function IsNegativeResult(Value: TModalResult): Boolean;
3225: function IsAbortResult(const Value: TModalResult): Boolean;
3226: function StripAllFromResult(const Value: TModalResult): TModalResult;

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

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3314: Const('sdfStandard16','String ''''''mm'/'dd'/'yyyy'''')
3315: Const('sdfStandard32','String ''''''dd/mm/yyyy'''')
3316: Const('sdfOracle','String ''TO_DATE('''dd/mm/yyyy''', ''DD/MM/YYYY'')')
3317: Const('sdfInterbase','String ''CAST('''mm''/'dd''/'yyyy''' AS DATE)'')
3318: Const('sdfMSSQL','String ''CONVERT(datetime, '''mm''/'dd''/'yyyy''' , 103)'')
3319: AddTypes('Largeint', 'Longint')
3320: addTypeS('TIFException', '(ErNoError, erCannotImport, erInvalidType, ErInternalError, '+
3321:   'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3322:   'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3323:   'erVersionError, ErDivideByZero, ErMathError, erCouldNotCallProc, erOutOfRecordRange, '+
3324:   'erOutOfMemory, erException, erNullPointerException, erNullVariantError, erInterfaceNotSupported, erDerError);
3325: (*-----*)
3326: procedure SIRегистер_JclIniFiles(CL: TPSFPascalCompiler);
3327: begin
3328:   Function JIniReadBool( const FileName, Section, Line : string) : Boolean
3329:   Function JIniReadInteger( const FileName, Section, Line : string) : Integer
3330:   Function JIniReadString( const FileName, Section, Line : string) : string
3331:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3332:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3333:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3334:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3335:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3336: end;
3337:
3338: (* == compile-time registration functions == *)
3339: (*-----*)
3340: procedure SIRегистер_JclDateTime(CL: TPSFPascalCompiler);
3341: begin
3342:   'UnixTimeStart','LongInt'( 25569 );
3343:   Function JEncodeDate( const Year : Integer; Month, Day : Word ) : TDateTime
3344:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word );
3345:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word );
3346:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer );
3347:   Function CenturyOfDate( const DateTime : TDateTime ) : Integer
3348:   Function CenturyBaseYear( const DateTime : TDateTime ) : Integer
3349:   Function DayOfDate( const DateTime : TDateTime ) : Integer
3350:   Function MonthOfDate( const DateTime : TDateTime ) : Integer
3351:   Function YearOfDate( const DateTime : TDateTime ) : Integer
3352:   Function JDdayOfTheYear( const DateTime : TDateTime; var Year : Integer ) : Integer;
3353:   Function DayOfTheYear1( const DateTime : TDateTime ) : Integer;
3354:   Function DayOfTheYearToDate( const Year, Day : Integer ) : TDateTime
3355:   Function HourOfTime( const DateTime : TDateTime ) : Integer
3356:   Function MinuteOfTime( const DateTime : TDateTime ) : Integer
3357:   Function SecondOfTime( const DateTime : TDateTime ) : Integer
3358:   Function GetISOYearNumberOfDay( const Year : Word ) : Word
3359:   Function IsISOLongYear( const Year : Word ) : Boolean;
3360:   Function IsISOLongYear1( const DateTime : TDateTime ) : Boolean;
3361:   Function ISODayOfWeek( const DateTime : TDateTime ) : Word
3362:   Function JISOWeekNumber( DateTime : TDateTime; var YearOfWeekNumber, WeekDay : Integer ) : Integer;
3363:   Function ISOWeekNumber1( DateTime : TDateTime; var YearOfWeekNumber : Integer ) : Integer;
3364:   Function ISOWeekNumber2( DateTime : TDateTime ) : Integer;
3365:   Function ISOWeekToDate( const Year, Week, Day : Integer ) : TDateTime
3366:   Function JIsLeapYear( const Year : Integer ) : Boolean;
3367:   Function IsLeapYear1( const DateTime : TDateTime ) : Boolean;
3368:   Function JDdaysInMonth( const DateTime : TDateTime ) : Integer
3369:   Function Make4DigitYear( Year, Pivot : Integer ) : Integer
3370:   Function JMakeYear4Digit( Year, WindowsillYear : Integer ) : Integer
3371:   Function JEasterSunday( const Year : Integer ) : TDatetime // TDosDateTime', 'Integer
3372:   Function JFormatDateTime( Form : string; DateTime : TDateTime ) : string
3373:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3374:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime ) : Boolean;
3375:   Function HoursToMSecs( Hours : Integer ) : Integer
3376:   Function MinutesToMSecs( Minutes : Integer ) : Integer
3377:   Function SecondsToMSecs( Seconds : Integer ) : Integer
3378:   Function TimeOfDateTimeToSeconds( DateTime : TDateTime ) : Integer
3379:   Function TimeOfDateTimeToMSecs( DateTime : TDateTime ) : Integer
3380:   Function DateTimeToLocalDateTime( DateTime : TDateTime ) : TDateTime
3381:   Function LocalDateTimeToDate( DateTime : TDateTime ) : TDateTime
3382:   Function DateTimeToDosDateTime( const DateTime : TDateTime ) : TDosDateTime
3383:   Function JDDateToFileTime( DateTime : TDateTime ) : TFileTime
3384:   Function JDTimeToSystemTime( DateTime : TDateTime ) : TSystemTime;
3385:   Procedure DateTimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime );
3386:   Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3387:   Function DosDateTimeToDate( const DosTime : TDosDateTime ) : TDateTime
3388:   Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3389:   Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3390:   Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3391:   Function DosDateTimeToStr( DateTime : Integer ) : string
3392:   Function JFileTimeToDate( const FileTime : TFileTime ) : TDateTime
3393:   Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3394:   Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3395:   Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3396:   Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3397:   Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime );
3398:   Function FileTimeToStr( const FileTime : TFileTime ) : string
3399:   Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3400:   Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3401:   Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3402:   Function SystemTimeToStr( const SystemTime : TSystemTime ) : string

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3403: Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3404: Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3405: Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3406: TJclUnixTime32', 'Longword
3407: Function JDateTimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3408: Function JUnixTimeToDate( const UnixTime : TJclUnixTime32 ) : TDateTime
3409: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3410: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3411: Function JNullStamp : TTimeStamp
3412: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3413: Function JEQualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3414: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3415: FunctionTimeStampDOW( const Stamp : TTimeStamp ) : Integer
3416: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3417: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3418: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3419: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3420: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3421: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3422: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3423: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3424: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3425: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3426: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3427: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3428: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3429: FindClass('TOBJECT'), EJclDateTimeError
3430: end;
3431:
3432: procedure SIRegister_JclMiscel2(CL: TPSPPascalCompiler);
3433: begin
3434: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3435: Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3436: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3437: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3438: Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3439: TJclKillLevel', '( k1Normal, k1NoSignal, k1TimeOut )
3440: Function ExitWindows( ExitCode : Cardinal ) : Boolean
3441: Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3442: Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3443: Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3444: Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3445: Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3446: Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3447: Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;;
3448: Function ShutDownDialog1( const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool ):Bool;
3449: Function AbortShutDown : Boolean;
3450: Function AbortShutdown( const MachineName : string ) : Boolean;
3451: TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3452: TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3453: Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3454: FindClass('TOBJECT'), EJclCreateProcessError
3455: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3456: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar);
3457: // with Add(EJclCreateProcessError) do
3458: end;
3459:
3460:
3461: procedure SIRegister_JclAnsiStrings(CL: TPSPPascalCompiler);
3462: begin
3463: // 'AnsiSigns', 'Set').SetSet(['-', '+']);
3464: 'C1_UPPER', 'LongWord( $0001 );
3465: 'C1_LOWER', 'LongWord( $0002 );
3466: 'C1_DIGIT', 'LongWord').SetUInt( $0004 );
3467: 'C1_SPACE', 'LongWord').SetUInt( $0008 );
3468: 'C1_PUNCT', 'LongWord').SetUInt( $0010 );
3469: 'C1_CNTL', 'LongWord').SetUInt( $0020 );
3470: 'C1_BLANK', 'LongWord').SetUInt( $0040 );
3471: 'C1_XDIGIT', 'LongWord').SetUInt( $0080 );
3472: 'C1_ALPHA', 'LongWord').SetUInt( $0100 );
3473: AnsiChar', 'Char
3474: Function StrIsAlpha( const S : AnsiString ) : Boolean
3475: Function StrIsAlphaNum( const S : AnsiString ) : Boolean
3476: Function StrIsAlphaNumUnderscore( const S : AnsiString ) : Boolean
3477: Function StrContainsChars( const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean ) : Boolean
3478: Function StrConsistsOfNumberChars( const S : AnsiString ) : Boolean
3479: Function StrIsDigit( const S : AnsiString ) : Boolean
3480: Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet ) : Boolean
3481: Function StrSame( const S1, S2 : AnsiString ) : Boolean
3482: //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar ) : AnsiString
3483: Function StrCharPosLower( const S : AnsiString; CharPos : Integer ) : AnsiString
3484: Function StrCharPosUpper( const S : AnsiString; CharPos : Integer ) : AnsiString
3485: Function StrDoubleQuote( const S : AnsiString ) : AnsiString
3486: Function StrEnsureNoPrefix( const Prefix, Text : AnsiString ) : AnsiString
3487: Function StrEnsureNoSuffix( const Suffix, Text : AnsiString ) : AnsiString
3488: Function StrEnsurePrefix( const Prefix, Text : AnsiString ) : AnsiString
3489: Function StrEnsureSuffix( const Suffix, Text : AnsiString ) : AnsiString
3490: Function StrEscapedToString( const S : AnsiString ) : AnsiString

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3491: Function JStrLower( const S : AnsiString ) : AnsiString
3492: Procedure StrLowerInPlace( var S : AnsiString )
3493: //Procedure StrLowerBuff( S : PAnsiChar )
3494: Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer );
3495: Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3496: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3497: Function StrProper( const S : AnsiString ) : AnsiString
3498: //Procedure StrProperBuff( S : PAnsiChar )
3499: Function StrQuote( const S : AnsiString; C : AnsiChar ) : AnsiString
3500: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3501: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3502: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3503: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar ) : AnsiString
3504: Function StrReplaceChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3505: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;
3506: Function StrRepeat( const S : AnsiString; Count : Integer ) : AnsiString
3507: Function StrRepeatLength( const S : AnsiString; const L : Integer ) : AnsiString
3508: Function StrReverse( const S : AnsiString ) : AnsiString
3509: Procedure StrReverseInPlace( var S : AnsiString )
3510: Function StrSingleQuote( const S : AnsiString ) : AnsiString
3511: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet ) : AnsiString
3512: Function StrStringToEscaped( const S : AnsiString ) : AnsiString
3513: Function StrStripNonNumberChars( const S : AnsiString ) : AnsiString
3514: Function StrToHex( const Source : AnsiString ) : AnsiString
3515: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar ) : AnsiString
3516: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3517: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar ) : AnsiString
3518: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3519: Function StrTrimQuotes( const S : AnsiString ) : AnsiString
3520: Function JStrUpper( const S : AnsiString ) : AnsiString
3521: Procedure StrUpperInPlace( var S : Ansistring )
3522: //Procedure StrUpperBuff( S : PAnsiChar )
3523: Function StrOemToAnsi( const S : AnsiString ) : AnsiString
3524: Function StrAnsiToOem( const S : AnsiString ) : AnsiString
3525: Procedure StrAddRef( var S : Ansistring )
3526: Function StrAllocSize( const S : AnsiString ) : Longint
3527: Procedure StrDecRef( var S : Ansistring )
3528: //Function StrLen( S : PAnsiChar ) : Integer
3529: Function StrLength( const S : AnsiString ) : Longint
3530: Function StrRefCount( const S : AnsiString ) : Longint
3531: Procedure StrResetLength( var S : AnsiString )
3532: Function StrCharCount( const S : AnsiString; C : AnsiChar ) : Integer
3533: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet ) : Integer
3534: Function StrStrCount( const S, SubS : AnsiString ) : Integer
3535: Function StrCompare( const S1, S2 : AnsiString ) : Integer
3536: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer ) : Integer
3537: //Function StrFillChar( const C : AnsiChar; Count : Integer ) : AnsiString;
3538: Function StrFillChar1( const C : Char; Count : Integer ) : AnsiString;
3539: Function StrFillChar( const C: Char; Count: Integer): string';
3540: Function IntFillChar( const I: Integer; Count: Integer): string') );
3541: Function ByteFillChar( const B: Byte; Count: Integer): string') );
3542: Function ArrFillChar( const AC: Char; Count: Integer): TCharArray';
3543: Function ArrByteFillChar( const AB: Char; Count: Integer): TByteArray;
3544: Function StrFind( const Substr, S : AnsiString; const Index : Integer ) : Integer
3545: //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString ) : Boolean
3546: Function StrIndex( const S : AnsiString; const List : array of AnsiString ) : Integer
3547: Function StrILastPos( const SubStr, S : AnsiString ) : Integer
3548: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3549: Function StrIsOneOf( const S : AnsiString; const List : array of AnsiString ) : Boolean
3550: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3551: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3552: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3553: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3554: Function StrNPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3555: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString ) : Integer
3556: Function StrSearch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3557: //Function StrAfter( const SubStr, S : AnsiString ) : AnsiString
3558: //Function StrBefore( const SubStr, S : AnsiString ) : AnsiString
3559: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3560: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3561: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3562: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3563: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3564: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3565: Function CharEqualNoCase( const C1, C2 : Ansichar ) : Boolean
3566: Function CharIsAlpha( const C : AnsiChar ) : Boolean
3567: Function CharIsAlphaNum( const C : AnsiChar ) : Boolean
3568: Function CharIsBlank( const C : AnsiChar ) : Boolean
3569: Function CharIsControl( const C : Ansichar ) : Boolean
3570: Function CharIsDelete( const C : Ansichar ) : Boolean
3571: Function CharIsDigit( const C : Ansichar ) : Boolean
3572: Function CharIsLower( const C : Ansichar ) : Boolean
3573: Function CharIsNumberChar( const C : Ansichar ) : Boolean
3574: Function CharIsPrintable( const C : Ansichar ) : Boolean
3575: Function CharIsPunctuation( const C : Ansichar ) : Boolean
3576: Function CharIsReturn( const C : Ansichar ) : Boolean
3577: Function CharIsSpace( const C : Ansichar ) : Boolean
3578: Function CharIsUpper( const C : Ansichar ) : Boolean
3579: Function CharIsWhiteSpace( const C : Ansichar ) : Boolean

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3580: Function CharType( const C : AnsiChar ) : Word
3581: Function CharHex( const C : AnsiChar ) : Byte
3582: Function CharLower( const C : AnsiChar ) : AnsiChar
3583: Function CharUpper( const C : AnsiChar ) : AnsiChar
3584: Function CharToggleCase( const C : AnsiChar ) : AnsiChar
3585: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3586: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3587: Function CharIPos( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3588: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3589: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3590: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3591: Function StringsToStr( const List:TStrings;const Sep:AnsiString;const AllowEmptyString:Bool ):AnsiString;
3592: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean )
3593: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean )
3594: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean )
3595: Function AddStringToStrings(const S:AnsiString;Strings:TStrings; const Unique:Boolean):Boolean
3596: Function BooleanToStr( B : Boolean ) : AnsiString
3597: Function FileToString( const FileName : AnsiString ) : AnsiString
3598: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean )
3599: Function StrToken( var S : AnsiString; Separator : AnsiChar ) : AnsiString
3600: Procedure StrTokens( const S : AnsiString; const List : TStrings )
3601: Procedure StrTokenToStrings( S : AnsiString; Separator : AnsiChar; const List : TStrings )
3602: //Function StrWord( var S : PAnsiChar; out Word : AnsiString ) : Boolean
3603: Function StrtoFloatSafe( const S : AnsiString ) : Float
3604: Function StrToIntSafe( const S : AnsiString ) : Integer
3605: Procedure StrNormIndex( const Strlen : Integer; var Index : Integer; var Count : Integer );
3606: Function ArrayOf( List : TStrings ) : TDynStringArray;
3607:   EJclStringError', 'EJclError
3608: function IsClass(Address: TObject): Boolean;
3609: function IsObject(Address: TObject): Boolean;
3610: // Console Utilities
3611: //function ReadKey: Char;
3612: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3613: function JclGUIDToString(const GUID: TGUID): string;
3614: function JclStringToGUID(const S: string): TGUID;
3615: end;
3616:
3617:
3618: *****uPSI_JvDBUtil;
3619: Procedure ExecuteSQLScript(Base:TDataBase; const Script: string; const Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3620: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3621: Function GetStoredProcResult( const ADatabaseName, AStoredProcName : string; AParams : array of Variant; const AResultName : string ) : Variant
3622: //Function StrFieldDesc( Field : FLDDesc ) : string
3623: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3624: Procedure CopyRecord( DataSet : TDataSet )
3625: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string; MasterField : Word; ModOp, DelOp : RINTQual )
3626: Procedure AddMasterPassword( Table : TTable; pswd : string )
3627: Procedure PackTable( Table : TTable )
3628: Procedure PackEncryptedTable( Table : TTable; pswd : string )
3629: Function EncodeQuotes( const S : string ) : string
3630: Function Cmp( const S1, S2 : string ) : Boolean
3631: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3632: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string
3633: Function ReplaceString( S : string; const OldPattern, NewPattern : string ) : string
3634: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer )
3635: *****uPSI_JvJvBDEUtils;*****
3636: //JvBDEUtils
3637: Function CreateDbLocate : TJvLocateObject
3638: //Function CheckOpen( Status : DBTResult ) : Boolean
3639: Procedure FetchAllRecords( DataSet : TBDEDataSet )
3640: Function TransActive( Database : TDatabase ) : Boolean
3641: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3642: Function GetQuoteChar( Database : TDatabase ) : string
3643: Procedure ExecuteQuery( const DbName, QueryText : string )
3644: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string )
3645: Function FieldLogicMap( FldType : TFieldType ) : Integer
3646: Function FieldsSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer )
3647: Function GetAliasPath( const AliasName : string ) : string
3648: Function IsDirectory( const DatabaseName : string ) : Boolean
3649: Function GetBdeDirectory : string
3650: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3651: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value,FieldName : string ) : Boolean
3652: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value,FieldName : string ) : Boolean
3653: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3654: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3655: Function DataSetPositionStr( DataSet : TDataSet ) : string
3656: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean )
3657: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3658: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3659: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3660: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3661: Procedure RestoreIndex( Table : TTable )
3662: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3663: Procedure PackTable( Table : TTable )
3664: Procedure ReindexTable( Table : TTable )
3665: Procedure BdeFlushBuffers

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

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

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3839: function AnsiStrICmp(S1, S2: PChar): Integer;
3840: {$ENDIF}
3841: function Var2Type(V: Variant; const VarType: Integer): Variant;
3842: function VarToInt(V: Variant): Integer;
3843: function VarToFloat(V: Variant): Double;
3844: { following functions are not documented because they are don't work properly , so don't use them }
3845: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3846: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3847: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3848: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3849: function GetParameter: string;
3850: function GetLongFileName(FileName: string): string;
3851: {* from FileCtrl}
3852: function DirectoryExists(const Name: string): Boolean;
3853: procedure ForceDirectories(Dir: string);
3854: {# from FileCtrl}
3855: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3856: function GetComputerID: string;
3857: function GetComputerName: string;
3858: {**** string routines }
3859: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the same Index.Also see RAUtilsW.ReplaceSokr1 function }
3860: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3861: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3862:   in the list, Words, and if founds, replaces this Word with string from another list, Frases, with the same Index, and then update NewSelStart variable }
3863: function ReplaceSokr(S:string;PosBeg,Len:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3864: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3865: function CountOfLines(const S: string): Integer;
3866: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3867: procedure DeleteEmptyLines(Ss: TStrings);
3868: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3869:   Note: If strings SQL already contains where-statement, it must be started on begining of any line }
3870: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3871: {**** files routines - }
3872: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3873:   Resource can be compressed using MS Compress program}
3874: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3875: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3876: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3877: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3878: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3879: { IniReadSection read section, Section, from ini-file,
3880:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3881:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3882: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3883: { LoadTextFile load text file, FileName, into string }
3884: function LoadTextFile(const FileName: TFileName): string;
3885: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3886: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3887: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3888: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3889: {$IFDEF COMPILER3_UP}
3890: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3891: function TargetFileName(const FileName: TFileName): TFileName;
3892: { return filename ShortCut linked to }
3893: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3894: {$ENDIF COMPILER3_UP}
3895: {**** Graphic routines - }
3896: { LoadIcoToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3897: procedure LoadIcoToImage(ALarge, ASmall: TImageList; const NameRes: string);
3898: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3899: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3900: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3901: function RATextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;
3902: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3903: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3904: { Cinema draws some visual effect }
3905: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3906: { Roughed fills rect with special 3D pattern }
3907: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3908: { 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 }
3909: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3910: { TextWidth calculate text with for writing using standard desktop font }
3911: function TextWidth(AStr: string): Integer;
3912: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3913: function DefineCursor(Identifier: PChar): TCursor;
3914: {**** other routines - }
3915: { FindFormByClass returns first form specified class, FormClass,owned by Application global variable }
3916: function FindFormByClass(FormClass: TFormClass): TForm;
3917: function FindFormByClassName(FormClassName: string): TForm;
3918: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
3919:   having Tag property value, equaled to Tag parameter }
3920: function FindByTag(WinControl:TWinControl;ComponentClass:TComponentClass;const Tag:Integer):TComponent;
3921: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3922: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3923: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3924: function RBTAG(Parent: TWinControl): Integer;

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3925: { AppMinimized returns True, if Application is minimized }
3926: function AppMinimized: Boolean;
3927: { MessageBox is Application.MessageBox with string (not PChar) parameters.
3928:   if Caption parameter = '', it replaced with Application.Title }
3929: function MessageBoxJ(const Msg: string; Caption: string;const Flags: Integer): Integer;
3930: function MsgDlg2(const Msg: string; ACaption: string; DlgType: TMsgDlgType;
3931:   Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3932: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
3933:   Buttons: TMsgDlgButtons; DefButton:TMsgDlgBtn; HelpContext: Integer;Control: TWinControl): Integer;
3934: { Delay stop program execution to MSec msec }
3935: procedure Delay(MSec: Longword);
3936: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3937: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3938: procedure EnableMenuItem(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3939: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3940: function PanelBorder(Panel: TCustomPanel): Integer;
3941: function Pixels(Control: TControl; APixels: Integer): Integer;
3942: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3943: procedure Error(const Msg: string);
3944: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
3945:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3946: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>'}
3947: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3948:   const HideSelColor: Boolean): string;
3949: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
3950:   const HideSelColor: Boolean): Integer;
3951: function ItemHtPlain(const Text: string): string;
3952: { ClearList - clears list of TObject }
3953: procedure ClearList(List: TList);
3954: procedure MemStreamToClipBoard(MemStream: TMemoryStream; const Format: Word);
3955: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3956: { RTTI support }
3957: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3958: function GetPropStr(Obj: TObject; const PropName: string): string;
3959: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3960: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3961: procedure PrepareIniSection(SS: TStrings);
3962: { following functions are not documented because they are don't work properly, so don't use them }
3963: {$IFDEF COMPILER2}
3964: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3965: {$ENDIF}
3966:
3967: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3968: begin
3969:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3970:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3971:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
3972:   Accept:Bool;Sorted:Bool;
3973:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3974:   Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)
3975:   Procedure BoxSetItem( List : TWinControl; Index : Integer)
3976:   Function BoxGetFirstSelection( List : TWinControl ) : Integer
3977:   Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3978: end;
3979: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3980: begin
3981:   Const ('MaxInitStrNum','LongInt'( 9 );
3982: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
3983:   : array of AnsiString; MaxSplit : Integer ) : Integer
3984: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
3985:   string; MaxSplit : Integer ) : Integer
3986: Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
3987:   QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3988: Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3989: Function JvStrStrip( S : string ) : string
3990: Function GetString( var Source : AnsiString; const Separator : AnsiString ) : AnsiString
3991: Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3992: Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3993: Function StrEatWhiteSpace( const S : string ) : string
3994: Function HexToAscii( const S : AnsiString ) : AnsiString
3995: Function AsciiToHex( const S : AnsiString ) : AnsiString
3996: Function StripQuotes( const S1 : AnsiString ) : AnsiString
3997: Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3998: Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3999: Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
4000: Function HexPCharToInt( S1 : PAnsiChar ) : Integer
4001: Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
4002: Function StripPCharQuotes( S1 : PAnsiChar ) : AnsiString
4003: Function JvValidIdentifierAnsi( S1 : PAnsiChar ) : Boolean
4004: Function JvValidIdentifier( S1 : String ) : Boolean
4005: Function JvEndChar( X : AnsiChar ) : Boolean
4006: Procedure JvGetToken( S1, S2 : PAnsiChar )
4007: Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
4008: Function IsKeyword( S1 : PAnsiChar ) : Boolean
4009: Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
4010: Function GetParenthesis( S1, S2 : PAnsiChar ) : Boolean
4011: Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar )
4012: Procedure JvGetWhitespaceChars( S1 : PAnsiChar );

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4010: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
4011: Function GetTokenCount : Integer
4012: Procedure ResetTokenCount
4013: end;
4014:
4015: procedure SJRegister_JvDBQueryParamsForm(CL: TPSPPascalCompiler);
4016: begin
4017:   SJRegister_TJvQueryParamsDialog(CL);
4018:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
4019: end;
4020:
4021: ***** JvStringUtil / JvStringUtilities *****
4022: function FindNotBlankCharPos(const S: string): Integer;
4023: function AnsiChangeCase(const S: string): string;
4024: function GetWordOnPos(const S: string; const P: Integer): string;
4025: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4026: function Cmp(const S1, S2: string): Boolean;
4027: { Spaces returns string consists on N space chars }
4028: function Spaces(const N: Integer): string;
4029: { HasChar returns True, if char, Ch, contains in string, S }
4030: function HasChar(const Ch: Char; const S: string): Boolean;
4031: function HasAnyChar(const Chars: string; const S: string): Boolean;
4032: { SubStr returns substring from string, S, separated with Separator string}
4033: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
4034: { SubStrEnd same to previous function but Index numerated from the end of string }
4035: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4036: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
4037: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
4038: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
4039: { GetXYByPos is same to previous function, but returns X position in line too}
4040: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4041: { AddSlash returns string with added slash char to Dir parameter, if needed }
4042: function AddSlash2(const Dir: TFileName): string;
4043: { AddPath returns FileName with Path, if FileName not contain any path }
4044: function AddPath(const FileName, Path: TFileName): TFileName;
4045: { ExePath returns ExtractFilePath(ParamStr(0)) }
4046: function ExePath: TFileName;
4047: function LoadTextFile(const FileName: TFileName): string;
4048: procedure SaveTextfile(const FileName: TFileName; const Source: string);
4049: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
4050: function ConcatSep(const S, S2, Separator: string): string;
4051: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4052: function FileEquMask(FileName, Mask: TFileName): Boolean;
4053: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4054:   Masks must be separated with comma (';') }
4055: function FileEquMasks(FileName, Masks: TFileName): Boolean;
4056: function StringEndsWith(const Str, SubStr: string): Boolean;
4057: function ExtractFilePath2(const FileName: string): string;
4058: function StrToOem(const AnsiStr: string): string;
4059: { StrToOem translates a string from the Windows character set into the OEM character set. }
4060: function OemToAnsiStr(const OemStr: string): string;
4061: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4062: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
4063: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
4064: function ReplaceStr(const S, Srch, Replace: string): string;
4065: { Returns string with every occurrence of Srch string replaced with Replace string. }
4066: function DelSpace(const S: string): string;
4067: { DelSpace return a string with all white spaces removed. }
4068: function DelChars(const S: string; Chr: Char): string;
4069: { DelChars return a string with all Chr characters removed. }
4070: function DelBSpace(const S: string): string;
4071: { DelBSpace trims leading spaces from the given string. }
4072: function DelEspace(const S: string): string;
4073: { DelEspace trims trailing spaces from the given string. }
4074: function DelRSpace(const S: string): string;
4075: { DelRSpace trims leading and trailing spaces from the given string. }
4076: function DelSpace1(const S: string): string;
4077: { DelSpace1 return a string with all non-single white spaces removed. }
4078: function Tab2Space(const S: string; Numb: Byte): string;
4079: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4080: function NPos(const C: string; S: string; N: Integer): Integer;
4081: { NPos searches for a N-th position of substring C in a given string. }
4082: function MakeStr(C: Char; N: Integer): string;
4083: function MS(C: Char; N: Integer): string;
4084: { MakeStr return a string of length N filled with character C. }
4085: function AddChar(C: Char; const S: string; N: Integer): string;
4086: { AddChar return a string left-padded to length N with characters c. }
4087: function AddCharR(C: Char; const S: string; N: Integer): string;
4088: { AddCharR return a string right-padded to length N with characters c. }
4089: function LeftStr(const S: string; N: Integer): string;
4090: { LeftStr return a string right-padded to length N with blanks. }
4091: function RightStr(const S: string; N: Integer): string;
4092: { RightStr return a string left-padded to length N with blanks. }
4093: function CenterStr(const S: string; Len: Integer): string;
4094: { CenterStr centers the characters in the string based upon the Len specified. }
4095: function CompStr(const S1, S2: string): Integer;
4096: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2,0 if S1 = S2,or 1 if S1>S2. }
4097: function CompText(const S1, S2: string): Integer;
4098: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }

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4099: function Copy2Symb(const S: string; Symb: Char): string;
4100: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4101: function Copy2SymbDel(var S: string; Symb: Char): string;
4102: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4103: function Copy2Space(const S: string): string;
4104: { Copy2Space returns a substring of a string S from begining to first white space. }
4105: function Copy2SpaceDel(var S: string): string;
4106: { Copy2SpaceDel returns a substring of a string S from begining to first
4107:   white space and removes this substring from S. }
4108: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4109: { Returns string, with the first letter of each word in uppercase,
4110:   all other letters in lowercase. Words are delimited by WordDelims. }
4111: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4112: { WordCount given a set of word delimiters, returns number of words in S. }
4113: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4114: { Given a set of word delimiters, returns start position of N'th word in S. }
4115: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4116: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4117: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4118: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4119:   delimiters, return the N'th word in S. }
4120: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4121: { ExtractSubstr given set of word delimiters, returns the substring from S, that started from position Pos. }
4122: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4123: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4124: function QuotedString(const S: string; Quote: Char): string;
4125: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4126: function ExtractQuotedString(const S: string; Quote: Char): string;
4127: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4128:   and reduces pairs of Quote characters within the quoted string to a single character. }
4129: function FindPart(const HelpWilds, InputStr: string): Integer;
4130: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4131: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4132: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4133: function XorString(const Key, Src: ShortString): ShortString;
4134: function XorEncode(const Key, Source: string): string;
4135: function XorDecode(const Key, Source: string): string;
4136: { ** Command line routines ** }
4137: {$IFDEF COMPILER4_UP}
4138: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4139: {$ENDIF}
4140: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4141: { ** Numeric string handling routines ** }
4142: function Numb2USA(const S: string): string;
4143: { Numb2USA converts numeric string S to USA-format. }
4144: function Dec2Hex(N: Longint; A: Byte): string;
4145: function D2H(N: Longint; A: Byte): string;
4146: { Dec2Hex converts the given value to a hexadecimal string representation
4147:   with the minimum number of digits (A) specified. }
4148: function Hex2Dec(const S: string): Longint;
4149: function H2D(const S: string): Longint;
4150: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4151: function Dec2Numb(N: Longint; A, B: Byte): string;
4152: { Dec2Numb converts the given value to a string representation with the
4153:   base equal to B and with the minimum number of digits (A) specified. }
4154: function Numb2Dec(S: string; B: Byte): Longint;
4155: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4156: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4157: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4158: function IntToRoman(Value: Longint): string;
4159: { IntToRoman converts the given value to a roman numeric string representation. }
4160: function RomanToInt(const S: string): Longint;
4161: { RomanToInt converts the given string to an integer value. If the string
4162:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4163: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4164: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4165: ***** JvFileUtil *****
4166: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4167: procedure CopyFileEx(const FileName, DestName: string; OverwriteReadOnly, ShellDialog: Boolean; ProgressControl: TControl);
4168: procedure MoveFile(const FileName, DestName: TFileName);
4169: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4170: {$IFDEF COMPILER4_UP}
4171: function GetFileSize(const FileName: string): Int64;
4172: {$ELSE}
4173: function GetFileSize(const FileName: string): Longint;
4174: {$ENDIF}
4175: function FileDateTime(const FileName: string): TDateTime;
4176: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4177: function DeleteFiles(const FileMask: string): Boolean;
4178: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4179: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4180: function NormalDir(const DirName: string): string;
4181: function RemoveBackSlash(const DirName: string): string;
4182: function ValidFileName(const FileName: string): Boolean;
4183: function DirExists(Name: string): Boolean;
4184: procedure ForceDirectories(Dir: string);
4185: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4186: {$IFDEF COMPILER4_UP} overload; {$ENDIF}

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

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

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

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

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4539: function GetWordOnPos(const S: string; const P: Integer): string;
4540: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4541: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4542: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4543: { GetWordOnPosEx working like GetWordOnPos function, but
4544:   also returns Word position in iBeg, iEnd variables }
4545: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4546: function GetWordOnPosExW(const S: WideString; const P: Integer): WideString;
4547: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4548: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4549: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4550: { GetEndPosCaret returns the caret position of the last char. For the position
4551:   after the last char of Text you must add 1 to the returned X value. }
4552: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4553: { GetEndPosCaret returns the caret position of the last char. For the position
4554:   after the last char of Text you must add 1 to the returned X value. }
4555: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4556: function SubStrBySeparator(const S: string; const Index: Integer; const
4557: Separator: string; startIndex: Int=1): string;
4558: function SubStrBySeparatorW(const S: WideString; const Index: Int; const
4559: Separator: WideString; startIndex: Int): WideString;
4560: { SubStrEnd same to previous function but Index numerated from the end of string }
4561: function SubWord(const S: string; const Index: Integer; const Separator: string): string;
4562: function SubWord(P: PChar; var P2: PChar): string;
4563: function CurrencyByWord(Value: Currency): string;
4564: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4565: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4566: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4567: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4568: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4569: { ReplaceString searches for all substrings, OldPattern,
4570:   in a string, S, and replaces them with NewPattern }
4571: function ReplaceString(S: string; const OldPattern, NewPattern: string; startIndex: Integer = 1): string;
4572: function ReplaceStringW(S: WideString; const OldPattern, NewPattern:
4573: WideString; startIndex: Integer=1): WideString;
4574: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4575: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4576: SUPPORTS_INLINE}
4577: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
4578: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4579: SUPPORTS_INLINE}
4580: { Next 4 function for russian chars transliterating.
4581:   This functions are needed because Oem2ansi and Ansi20em functions sometimes suck }
4582: procedure Dos2Win(var S: AnsiString);
4583: procedure Win2Dos(var S: AnsiString);
4584: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4585: function Win2DOSRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4586: function Win2Koi(const S: AnsiString): AnsiString;
4587: { FillString fills the string Buffer with Count Chars }
4588: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4589: procedure FillString(var Buffer: string; startIndex, Count: Integer; const Value: Char); overload;
4590: { MoveString copies Count Chars from Source to Dest }
4591: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
4592: inline; {$ENDIF SUPPORTS_INLINE} overload;
4593: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
4594: DstStartIdx: Integer; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4595: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4596: procedure FillWideChar(var Buffer: WideString; Count: Integer; const Value: WideChar);
4597: { MoveWideChar copies Count WideChars from Source to Dest }
4598: procedure MoveWideChar(const Source: WideString; var Dest: WideString; Count: Integer); {$IFDEF SUPPORTS_INLINE}
4599: inline; {$ENDIF SUPPORTS_INLINE} overload;
4600: { FillNativeChar fills Buffer with Count NativeChars }
4601: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
4602: SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4603: { MoveWideChar copies Count WideChars from Source to Dest }
4604: procedure MoveNativeChar(const Source: WideString; var Dest: WideString; Count: Integer); // D2009 internal error
4605: {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4606: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4607: function IsSubString(const S: string; startIndex: Integer; const SubStr: string): Boolean;
4608: { Spaces returns string consists on N space chars }
4609: function Spaces(const N: Integer): string;
4610: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4611: function AddSpaces(const S: string; const N: Integer): string;
4612: function SpacesW(const N: Integer): WideString;
4613: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4614: { function LastDateRUS for russian users only }
4615: function LastDateRUS(const Dat: TDateTime): string;
4616: { returns date relative to current date: 'âââ äíý àçââ' }
4617: function CurrencyToStr(format Currency, Cur, using ffcurrency float format)
4618: { HasChar returns True, if Char, Ch, contains in string, S }
4619: function HasChar(const Ch: Char; const S: string): Boolean;
4620: function HasCharW(const Ch: WideString; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4621: function HasAnyChar(const Chars: string; const S: string): Boolean;
4622: { CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4623: {$IFDEF COMPILER12_UP}
4624: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4625: {$ENDIF ~COMPILER12_UP}

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

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4705: Function isKeyPressed: boolean; //true if key on memo2 (shell output) is pressed
4706: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4707: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4708: {**** Color routines }
4709: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);
4710: function RGBToBGR(Value: Cardinal): Cardinal;
4711: //function ColorToPrettyName(Value: TColor): string;
4712: //function PrettyNameToColor(const Value: string): TColor;
4713: {**** other routines }
4714: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4715: function IntPower(Base, Exponent: Integer): Integer;
4716: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4717: function StrToBool(const S: string): Boolean;
4718: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4719: function VarToInt(V: Variant): Integer;
4720: function VarToFloat(V: Variant): Double;
4721: { following functions are not documented because they not work properly sometimes, so do not use them }
4722: // (rom) ReplaceStrings1, GetSubStr removed
4723: function GetLongFileName(const FileName: string): string;
4724: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4725: function GetParameter: string;
4726: function GetComputerID: string;
4727: function GetComputerName: string;
4728: {**** string routines }
4729: { ReplaceAllStrings searches for all substrings, Words,
4730:   in a string, S, and replaces them with Frases with the same Index. }
4731: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4732: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4733:   in the list, Words, and if founds, replaces this Word with string from another list,Frases, with the
4734:   same Index, and then update NewSelStart variable }
4735: function ReplaceStrings(const S:string;PosBeg,Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4736: { CountOfLines calculates the lines count in a string, S,
4737:   each line must be separated from another with Crlf sequence }
4738: function CountOfLines(const S: string): Integer;
4739: { DeleteLines deletes all lines from strings which in the words, words.
4740:   The word of will be deleted from strings. }
4741: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4742: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4743:   Lines contained only spaces also deletes. }
4744: procedure DeleteEmptyLines(Ss: TStrings);
4745: { SQLAddWhere addes or modifies existing where-statement, where,
4746:   to the strings, SQL. Note: If strings SQL allready contains where-statement,
4747:   it must be started on the begining of any line }
4748: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4749: {**** files routines - }
4750: {$IFDEF MSWINDOWS}
4751: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4752:   Resource can be compressed using MS Compress program}
4753: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4754: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4755: {$ENDIF MSWINDOWS}
4756: { IniReadSection read section, Section, from ini-file,
4757:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4758:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
4759: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4760: { LoadTextFile load text file, FileName, into string }
4761: function LoadTextFile(const FileName: TFileName): string;
4762: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4763: { ReadFolder reads files list from disk folder,Folder,that are equal to mask, Mask,into strings, FileList}
4764: function ReadFolder(const Folder, Mask: TFileName; Filelist: TStrings): Integer;
4765: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4766: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4767: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4768: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
4769: function RATextOutEx(Canvas:TCanvas;const R,RClip:TRect, const S:string;const CalcHeight:Boolean):Integer;
4770: { RATextCalcHeight calculate needed height for
4771:   correct output, using RATextOut or RATextOutEx functions }
4772: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4773: { Cinema draws some visual effect }
4774: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4775: { Roughed fills rect with special 3D pattern }
4776: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4777: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4778:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4779: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4780: { TextWidth calculate text width for writing using standard desktop font }
4781: { TextHeight calculate text height for writing using standard desktop font }
4782: function TextHeight(const AStr: string): Integer;
4783: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4784: procedure Error(const Msg: string);
4785: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4786:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4787: {example Text parameter:'Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4788: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4789:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4790: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;

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4791:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4792: function ItemHtPlain(const Text: string): string;
4793: { ClearList - clears list of TObject }
4794: procedure ClearList(List: TList);
4795: procedure MemStreamToClipBoard(MemStream: TMemoryStream; const Format: Word);
4796: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
4797: { RTTI support }
4798: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4799: function GetPropStr(Obj: TObject; const PropName: string): string;
4800: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4801: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4802: procedure PrepareIniSection(Ss: TStrings);
4803: { following functions are not documented because they are don't work properly, so don't use them }
4804: // (rom) from JVBandWindows to make it obsolete
4805: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4806: // (rom) from JVBandUtils to make it obsolete
4807: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4808: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4809: function CreateIconFromClipboard: TIcon;
4810: { begin JVIconClipboardUtils } { Icon clipboard routines }
4811: function CF_ICON: Word;
4812: procedure AssignClipboardIcon(Icon: TIcon);
4813: { Real-size icons support routines (32-bit only) }
4814: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4815: function CreateRealSizeIcon(Icon: TIcon): HICON;
4816: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4817: {end JVIconClipboardUtils }
4818: function CreateScreenCompatibleDC: HDC;
4819: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF}
4820: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4821: { begin JVRL } // (rom) changed API for inclusion in JCL
4822: procedure RleCompressTo(InStream, OutStream: TStream);
4823: procedure RleDecompressTo(InStream, OutStream: TStream);
4824: procedure RleCompress(Stream: TStream);
4825: procedure RleDecompress(Stream: TStream);
4826: {end JVRL } { begin JVDateUtil }
4827: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4828: function IsLeapYear(AYear: Integer): Boolean;
4829: function DaysInAMonth(const AYear, AMonth: Word): Word;
4830: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4831: function FirstDayOfPrevMonth: TDateTime;
4832: function LastDayOfPrevMonth: TDateTime;
4833: function FirstDayOfNextMonth: TDateTime;
4834: function ExtractDay(ADate: TDateTime): Word;
4835: function ExtractMonth(ADate: TDateTime): Word;
4836: function ExtractYear(ADate: TDateTime): Word;
4837: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4838: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$ENDIF SUPPORTS_INLINE}
4839: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4840: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4841: function ValidDate(ADate: TDateTime): Boolean;
4842: procedure DateDiff(Datet1, Date2: TDateTime; var Days, Months, Years: Word);
4843: function MonthsBetween(Datet1, Date2: TDateTime): Double;
4844: function DaysInPeriod(Datet1, Date2: TDateTime): Longint;
4845: { Count days between Datet1 and Date2 + 1, so if Datet1 = Date2 result = 1 }
4846: function DaysBetween(Datet1, Date2: TDateTime): Longint;
4847: { The same as previous but if Date2 < Datet1 result = 0 }
4848: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4849: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4850: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4851: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4852: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4853: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4854: { String to date conversions }
4855: function GetDateFormat(const DateFormat: string): TDateOrder;
4856: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4857: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4858: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4859: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4860: //function DefDateFormat(AFourDigitYear: Boolean): string;
4861: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4862: function FormatLongDate(Value: TDateTime): string;
4863: function FormatLongDateTime(Value: TDateTime): string;
4864: { end JVDateUtil }
4865: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4866: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4867: { begin JVStrUtils } { ** Common string handling routines ** }
4868: {$IFDEF UNIX}
4869: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4870: const ToCode, FromCode: AnsiString): Boolean;
4871: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4872: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4873: function OemStrToAnsi(const S: AnsiString): AnsiString;
4874: function AnsiStrToOem(const S: AnsiString): AnsiString;
4875: {$ENDIF UNIX}
4876: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4877: { StrToOem translates a string from the Windows character set into the OEM character set. }
4878: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;

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

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4968:   with the minimum number of digits (A) specified. }
4969: function Hex2Dec(const S: string): Longint;
4970: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4971: function Dec2Numb(N: Int64; A, B: Byte): string;
4972: { Dec2Numb converts the given value to a string representation with the
4973:   base equal to B and with the minimum number of digits (A) specified. }
4974: function Numb2Dec(S: string; B: Byte): Int64;
4975: { Numb2Dec converts the given B-based numeric string to the corresponding
4976:   integer value. }
4977: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4978: { IntToBin converts the given value to a binary string representation
4979:   with the minimum number of digits specified. }
4980: function IntToRoman(Value: Longint): string;
4981: { IntToRoman converts the given value to a roman numeric string representation. }
4982: function RomanToInt(const S: string): Longint;
4983: { RomanToInt converts the given string to an integer value. If the string
4984:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4985: function FindNotBlankCharPos(const S: string): Integer;
4986: function FindNotBlankCharPosW(const S: WideString): Integer;
4987: function AnsiChangeCase(const S: string): string;
4988: function WideChangeCase(const S: string): string;
4989: function StartsText(const SubStr, S: string): Boolean;
4990: function EndsText(const SubStr, S: string): Boolean;
4991: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4992: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4993: {$ENDIF UNIX}
4995: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4996: {$ENDIF UNIX}
4997: { begin JvFileUtil }
4998: function FileDateTime(const FileName: string): TDateTime;
4999: function HasAttr(const FileName: string; Attr: Integer): Boolean;
5000: function DeleteFilesEx(const FileMasks: array of string): Boolean;
5001: function NormalDir(const DirName: string): string;
5002: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
5003: function ValidFileName(const FileName: string): Boolean;
5004: {$IFDEF MSWINDOWS}
5005: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
5006: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
5007: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
5008: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
5009: {$ENDIF MSWINDOWS}
5010: function GetWindowsDir: string;
5011: function GetSystemDir: string;
5012: function ShortToLongFileName(const ShortName: string): string;
5013: function LongToShortFileName(const LongName: string): string;
5014: function ShortToLongPath(const ShortName: string): string;
5015: function LongToShortPath(const LongName: string): string;
5016: {$IFDEF MSWINDOWS}
5017: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
5018: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
5019: {$ENDIF MSWINDOWS}
5020: { end JvFileUtil }
5021: // Works like PtInRect but includes all edges in comparision
5022: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
5023: // Works like PtInRect but excludes all edges from comparision
5024: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
5025: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
5026: function IsFourDigitYear: Boolean;
5027: { moved from JVCLVCLUnits }
5028: //Open an object with the shell (url or something like that)
5029: function OpenObject(const Value: string): Boolean; overload;
5030: function OpenObject(Value: PChar): Boolean; overload;
5031: {$IFDEF MSWINDOWS}
5032: //Raise the last Exception
5033: procedure RaiseLastWin32; overload;
5034: procedure RaiseLastWin32(const Text: string); overload;
5035: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
5036: // significant 32 bits of a file's binary version number. Typically, this includes the major and minor
5037: // version placed together in one 32-bit Integer. I
5038: function GetFileVersion(const AFileName: string): Cardinal;
5039: {SEXTTERNALSYM GetFileVersion}
5040: //Get version of Shell.dll
5041: function GetShellVersion: Cardinal;
5042: {SEXTTERNALSYM GetShellVersion}
5043: // CD functions on HW
5044: procedure OpenCdDrive;
5045: procedure CloseCdDrive;
5046: // returns True if Drive is accessible
5047: function DiskInDrive(Drive: Char): Boolean;
5048: {$ENDIF MSWINDOWS}
5049: //Same as linux function ;;
5050: procedure Exec(const FileName, Parameters, Directory: string);
5051: // execute a program and wait for it to finish
5052: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
5053: // returns True if this is the first instance of the program that is running
5054: function FirstInstance(const ATitle: string): Boolean;

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5055: // restores a window based on it's classname and Caption. Either can be left empty
5056: // to widen the search
5057: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
5058: // manipulate the traybar and start button
5059: procedure HideTraybar;
5060: procedure ShowTraybar;
5061: procedure ShowStartButton(Visible: Boolean = True);
5062: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
5063: procedure MonitorOn;
5064: procedure MonitorOff;
5065: procedure LowPower;
5066: // send a key to the window named AppName
5067: function SendKey(const AppName: string; Key: Char): Boolean;
5068: {$IFDEF MSWINDOWS}
5069: // returns a list of all win currently visible, the Objects property is filled with their window handle
5070: procedure GetVisibleWindows(List: TStrings);
5071: Function GetVisibleWindowsF( List : TStrings):TStrings';
5072: // associates an extension to a specific program
5073: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5074: procedure AddToRecentDocs(const FileName: string);
5075: function GetRecentDocs: TStringList;
5076: {$ENDIF MSWINDOWS}
5077: function CharIsMoney(const Ch: Char): Boolean;
5078: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5079: function IntToExtended(I: Integer): Extended;
5080: { GetChangedText works out the new text given the current cursor pos & the key pressed
5081: It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5082: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5083: function MakeYear4digit(Year, Pivot: Integer): Integer;
5084: //function StrIsInteger(const S: string): Boolean;
5085: function StrIsFloatMoney(const Ps: string): Boolean;
5086: function StrIsDateTime(const Ps: string): Boolean;
5087: function PreformatDateString(Ps: string): string;
5088: function BooleanToInteger(const B: Boolean): Integer;
5089: function StringToBoolean(const Ps: string): Boolean;
5090: function SafeStrToDate(const Ps: string): TDateTime;
5091: function SafeStrToDate(const Ps: string): TDateTime;
5092: function SafeStrToTime(const Ps: string): TDateTime;
5093: function StrDelete(const psSub, psMain: string): string;
5094: { returns the fractional value of pcValue}
5095: function TimeOnly(pcValue: TDateTime): TTime;
5096: { returns the integral value of pcValue }
5097: function DateOnly(pcValue: TDateTime): TDate;
5098: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5099: const { TDateTime value used to signify Null value}
5100: NullEquivalentDate: TDateTime = 0.0;
5101: function DateIsNotNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5102: // Replacement for Win32Check to avoid platform specific warnings in D6
5103: function OSCheck(RetVal: Boolean): Boolean;
5104: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5105: Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5106: not be forced to use FileCtrl unnecessarily }
5107: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5108: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5109: { MinimizeString truncates long string, S, and appends...'symbols, if Length of S is more than MaxLen }
5110: function MinimizeString(const S: string; const MaxLen: Integer): string;
5111: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5112: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
5113: minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
5114: found.}
5113: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5114: {$ENDIF MSWINDOWS}
5115: procedure ResourceNotFound(ResID: PChar);
5116: function EmptyRect: TRect;
5117: function RectWidth(R: TRect): Integer;
5118: function RectHeight(R: TRect): Integer;
5119: function CompareRect(const R1, R2: TRect): Boolean;
5120: procedure RectNormalize(var R: TRect);
5121: function RectIsSquare(const R: TRect): Boolean;
5122: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5123: //IF AMaxSize = -1 ,then auto calc Square's max size
5124: {$IFDEF MSWINDOWS}
5125: procedure FreeUnusedOle;
5126: function GetWindowsVersion: string;
5127: function LoadDLL(const LibName: string): THandle;
5128: function RegisterServer(const ModuleName: string): Boolean;
5129: function UnregisterServer(const ModuleName: string): Boolean;
5130: {$ENDIF MSWINDOWS}
5131: { String routines }
5132: function GetEnvVar(const VarName: string): string;
5133: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5134: function StringToPChar(var S: string): PChar;
5135: function StrPAalloc(const S: string): PChar;
5136: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5137: function DropT(const S: string): string;
5138: { Memory routines }
5139: function AllocMemeo(Size: Longint): Pointer;
5140: function ReallocMemeo(fpBlock: Pointer; Size: Longint): Pointer;

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5141: procedure FreeMemo(var fpBlock: Pointer);
5142: function GetMemoSize(fpBlock: Pointer): Longint;
5143: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5144: { Manipulate huge pointers routines }
5145: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5146: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5147: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5148: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5149: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5150: function WindowClassName(Wnd: THandle): string;
5151: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5152: procedure ActivateWindow(Wnd: THandle);
5153: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5154: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5155: { SetWindowTop put window to top without recreating window }
5156: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5157: procedure CenterWindow(Wnd: THandle);
5158: function MakeVariant(const Values: array of Variant): Variant;
5159: { Convert dialog units to pixels and backwards }
5160: {$IFDEF MSWINDOWS}
5161: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5162: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5163: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5164: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5165: {$ENDIF MSWINDOWS}
5166: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5167: {$IFDEF BCB}
5168: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5169: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5170: {$ELSE}
5171: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5172: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5173: {$ENDIF BCB}
5174: {$IFDEF MSWINDOWS}
5175: { BrowseForFolderNative displays Browse For Folder dialog }
5176: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5177: {$ENDIF MSWINDOWS}
5178: procedure AntiAlias(Clip: TBitmap);
5179: procedure AntiAlasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5180: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5181:   ABitmap: TBitmap; const SourceRect: TRect);
5182: function IsTrueType(const FontName: string): Boolean;
5183: // Removes all non-numeric characters from AValue and returns the resulting string
5184: function TextToValText(const AValue: string): string;
5185: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean
5186: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings )
5187: Function ReplaceRegExpr( const ARegExpr,AInputStr,
      AReplaceStr:RegExprString;AUseSubstitution:boolean):RegExprString;
5188: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString
5189: Function RegExprSubExpressions(const ARegExpr:string; ASubExprs:TStrings; AExtendedSyntax : boolean) :
5190:
5191: *****unit uPSI_JvTFUtils;
5192: Function JExtractYear( ADate : TDateTime ) : Word
5193: Function JExtractMonth( ADate : TDateTime ) : Word
5194: Function JExtractDay( ADate : TDateTime ) : Word
5195: Function ExtractHours( ATime : TDateTime ) : Word
5196: Function ExtractMins( ATime : TDateTime ) : Word
5197: Function ExtractSecs( ATime : TDateTime ) : Word
5198: Function ExtractMSecs( ATime : TDateTime ) : Word
5199: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5200: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5201: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5202: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )
5203: Procedure IncDOW( var DOW : TTFFDayOfWeek; N : Integer )
5204: Procedure IncDays( var ADate : TDateTime; N : Integer )
5205: Procedure IncWeeks( var ADate : TDateTime; N : Integer )
5206: Procedure IncMonths( var ADate : TDateTime; N : Integer )
5207: Procedure IncYears( var ADate : TDateTime; N : Integer )
5208: Function EndOfMonth( ADate : TDateTime ) : TDateTime
5209: Function IsFirstOfMonth( ADate : TDateTime ) : Boolean
5210: Function IsEndOfMonth( ADate : TDateTime ) : Boolean
5211: Procedure EnsureMonth( Month : Word )
5212: Procedure EnsureDOW( DOW : Word )
5213: Function EqualDates( D1, D2 : TDateTime ) : Boolean
5214: Function Lesser( N1, N2 : Integer ) : Integer
5215: Function Greater( N1, N2 : Integer ) : Integer
5216: Function GetDivLength( TotalLength, DivCount, DivNum : Integer ) : Integer
5217: Function GetDivNum( TotalLength, DivCount, X : Integer ) : Integer
5218: Function GetDivStart( TotalLength, DivCount, DivNum : Integer ) : Integer
5219: Function DOWToBorl( ADOW : TTFFDayOfWeek ) : Integer
5220: Function BorlToDOW( BorlDOW : Integer ) : TTFFDayOfWeek
5221: Function DateToDOW( ADate : TDateTime ) : TTFFDayOfWeek
5222: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
      AFont:TFont;AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5223: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
      HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5224: Function JRectWidth( ARect : TRect ) : Integer
5225: Function JRectHeight( ARect : TRect ) : Integer
5226: Function JEmptyRect : TRect

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

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5316: 'ESBe2','Extended').setExtended( 7.3890560989306502272);
5317: 'ESBePi','Extended').setExtended( 23.140692632779269006);
5318: 'ESBePiOn2','Extended').setExtended( 4.8104773809653516555);
5319: 'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5320: 'ESBln2','Extended').setExtended( 0.69314718055994530942);
5321: 'ESBln10','Extended').setExtended( 2.30258509299404568402);
5322: 'ESBlnP1','Extended').setExtended( 1.14472988584940017414);
5323: 'ESBlog10Base2','Extended').setExtended( 3.3219280948873623478);
5324: 'ESBlog2Base10','Extended').setExtended( 0.30102999566398119521);
5325: 'ESBlog3Base10','Extended').setExtended( 0.47712125471966243730);
5326: 'ESBlogPiBase10','Extended').setExtended( 0.4971498726941339);
5327: 'ESBlogEBase10','Extended').setExtended( 0.43429448190325182765);
5328: 'ESBPi','Extended').setExtended( 3.1415926535897932385);
5329: 'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1);
5330: 'ESBTwoPi','Extended').setExtended( 6.2831853071795864769);
5331: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5332: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5333: 'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5334: 'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5335: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5336: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5337: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5338: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5339: 'ESBTwоЮToPower63','Extended').setExtended( 9223372036854775808.0);
5340: 'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5341: 'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5342: 'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5343: 'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5344: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5345: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5346: //LongWord', 'Cardinal
5347: TBitList', 'Word
5348: Function UMul( const Num1, Num2 : LongWord) : LongWord
5349: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5350: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5351: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5352: Function SameFloat( const X1, X2 : Extended) : Boolean
5353: Function FloatIsZero( const X : Extended) : Boolean
5354: Function FloatIsPositive( const X : Extended) : Boolean
5355: Function FloatIsNegative( const X : Extended) : Boolean
5356: Procedure IncLim( var B : Byte; const Limit : Byte)
5357: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5358: Procedure IncLimW( var B : Word; const Limit : Word)
5359: Procedure IncLimI( var B : Integer; const Limit : Integer)
5360: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5361: Procedure DecLim( var B : Byte; const Limit : Byte)
5362: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5363: Procedure DecLimW( var B : Word; const Limit : Word)
5364: Procedure DecLimI( var B : Integer; const Limit : Integer)
5365: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5366: Function MaxB( const B1, B2 : Byte) : Byte
5367: Function MinB( const B1, B2 : Byte) : Byte
5368: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5369: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5370: Function MaxW( const B1, B2 : Word) : Word
5371: Function MinW( const B1, B2 : Word) : Word
5372: Function esbMaxI( const B1, B2 : Integer) : Integer
5373: Function esbMinI( const B1, B2 : Integer) : Integer
5374: Function MaxL( const B1, B2 : LongInt) : LongInt
5375: Function MinL( const B1, B2 : LongInt) : LongInt
5376: Procedure SwapB( var B1, B2 : Byte)
5377: Procedure SwapSI( var B1, B2 : ShortInt)
5378: Procedure SwapW( var B1, B2 : Word)
5379: Procedure SwapI( var B1, B2 : SmallInt)
5380: Procedure SwapL( var B1, B2 : LongInt)
5381: Procedure SwapI32( var B1, B2 : Integer)
5382: Procedure SwapC( var B1, B2 : LongWord)
5383: Procedure SwapInt64( var X, Y : Int64)
5384: Function esbSign( const B : LongInt) : ShortInt
5385: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5386: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5387: Function Max3Word( const X1, X2, X3 : Word) : Word
5388: Function Min3Word( const X1, X2, X3 : Word) : Word
5389: Function MaxBArray( const B : array of Byte) : Byte
5390: Function MaxWArray( const B : array of Word) : Word
5391: Function MaxSIArry( const B : array of ShortInt) : ShortInt
5392: Function MaxIArray( const B : array of Integer) : Integer
5393: Function MaxLArray( const B : array of Longint) : Longint
5394: Function MinBArray( const B : array of Byte) : Byte
5395: Function MinWArray( const B : array of Word) : Word
5396: Function MinSIArry( const B : array of ShortInt) : ShortInt
5397: Function MinIArray( const B : array of Integer) : Integer
5398: Function MinLArray( const B : array of LongInt) : LongInt
5399: Function SumBArray( const B : array of Byte) : Byte
5400: Function SumBArray2( const B : array of Byte) : Word
5401: Function SumSIArry( const B : array of ShortInt) : ShortInt
5402: Function SumSIArry2( const B : array of ShortInt) : Integer
5403: Function SumWArray( const B : array of Word) : Word
5404: Function SumWArray2( const B : array of Word) : LongInt

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5405: Function SumIArray( const B : array of Integer) : Integer
5406: Function SumLArray( const B : array of LongInt) : LongInt
5407: Function SumLWArray( const B : array of LongWord) : LongWord
5408: Function ESBDigits( const X : LongWord) : Byte
5409: Function BitsHighest( const X : LongWord) : Integer
5410: Function ESBBitsNeeded( const X : LongWord) : Integer
5411: Function esbGCD( const X, Y : LongWord) : LongWord
5412: Function esbLCM( const X, Y : LongInt) : Int64
5413: //Function esbLCM( const X, Y : LongInt) : LongInt
5414: Function RelativePrime( const X, Y : LongWord) : Boolean
5415: Function Get87ControlWord : TBitList
5416: Procedure Set87ControlWord( const CWord : TBitList)
5417: Procedure SwapExt( var X, Y : Extended)
5418: Procedure SwapDbl( var X, Y : Double)
5419: Procedure SwapSing( var X, Y : Single)
5420: Function esbSgn( const X : Extended) : ShortInt
5421: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5422: Function ExtMod( const X, Y : Extended) : Extended
5423: Function ExtRem( const X, Y : Extended) : Extended
5424: Function CompMOD( const X, Y : Comp) : Comp
5425: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5426: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5427: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5428: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5429: Function MaxExt( const X, Y : Extended) : Extended
5430: Function MinExt( const X, Y : Extended) : Extended
5431: Function MaxEArray( const B : array of Extended) : Extended
5432: Function MinEArray( const B : array of Extended) : Extended
5433: Function MaxSArray( const B : array of Single) : Single
5434: Function MinSArray( const B : array of Single) : Single
5435: Function MaxCArray( const B : array of Comp) : Comp
5436: Function MinCArray( const B : array of Comp) : Comp
5437: Function SumSArray( const B : array of Single) : Single
5438: Function SumEArray( const B : array of Extended) : Extended
5439: Function SumSqEArray( const B : array of Extended) : Extended
5440: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5441: Function SumXYEArray( const X, Y : array of Extended) : Extended
5442: Function SumCArray( const B : array of Comp) : Comp
5443: Function FactorialX( A : LongWord) : Extended
5444: Function PermutationX( N, R : LongWord) : Extended
5445: Function esbBinomialCoeff( N, R : LongWord) : Extended
5446: Function IsPositiveEArray( const X : array of Extended) : Boolean
5447: Function esbGeometricMean( const X : array of Extended) : Extended
5448: Function esbHarmonicMean( const X : array of Extended) : Extended
5449: Function ESBMean( const X : array of Extended) : Extended
5450: Function esbSampleVariance( const X : array of Extended) : Extended
5451: Function esbPopulationVariance( const X : array of Extended) : Extended
5452: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5453: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5454: Function GetMedian( const SortedX : array of Extended) : Extended
5455: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5456: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5457: Function ESBMagnitude( const X : Extended) : Integer
5458: Function ESBTan( Angle : Extended) : Extended
5459: Function ESB Cot( Angle : Extended) : Extended
5460: Function ESB Cosec( const Angle : Extended) : Extended
5461: Function ESB Sec( const Angle : Extended) : Extended
5462: Function ESB ArcTan( X, Y : Extended) : Extended
5463: Procedure ESB SinCos( Angle : Extended; var SinX, CosX : Extended)
5464: Function ESB ArcCos( const X : Extended) : Extended
5465: Function ESB ArcSin( const X : Extended) : Extended
5466: Function ESB ArcSec( const X : Extended) : Extended
5467: Function ESB Cosec( const X : Extended) : Extended
5468: Function ESB Log10( const X : Extended) : Extended
5469: Function ESB Log2( const X : Extended) : Extended
5470: Function ESB LogBase( const X, Base : Extended) : Extended
5471: Function Pow2( const X : Extended) : Extended
5472: Function IntPow( const Base : Extended; const Exponent : LongWord) : Extended
5473: Function ESB IntPower( const X : Extended; const N : LongInt) : Extended
5474: Function XtoY( const X, Y : Extended) : Extended
5475: Function esbTenToY( const Y : Extended) : Extended
5476: Function esbTwoToY( const Y : Extended) : Extended
5477: Function LogXtoBaseY( const X, Y : Extended) : Extended
5478: Function esbISqrt( const I : LongWord) : Longword
5479: Function ILog2( const I : LongWord) : LongWord
5480: Function IGreatestPowerOf2( const N : LongWord) : LongWord
5481: Function ESB ArCosh( X : Extended) : Extended
5482: Function ESB ArSinh( X : Extended) : Extended
5483: Function ESB ArTanh( X : Extended) : Extended
5484: Function ESB Cosh( X : Extended) : Extended
5485: Function ESB Sinh( X : Extended) : Extended
5486: Function ESB Tanh( X : Extended) : Extended
5487: Function InverseGamma( const X : Extended) : Extended
5488: Function esbGamma( const X : Extended) : Extended
5489: Function esbLnGamma( const X : Extended) : Extended
5490: Function esbBeta( const X, Y : Extended) : Extended
5491: Function IncompleteBeta( X : Extended; P, Q : Extended) : Extended
5492: end;
5493:

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5494: ****Huge Cardinal Utils*****
5495: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean) : uint64
5496: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean) : uint32
5497: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean) : uint64
5498: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean) : uint32
5499: Function BitCount_8( Value : byte) : integer
5500: Function BitCount_16( Value : uint16) : integer
5501: Function BitCount_32( Value : uint32) : integer
5502: Function BitCount_64( Value : uint64) : integer
5503: Function CountSetBits_64( Value : uint64) : integer TPrimalityTestNoticeProc',
5504: Procedure ( CountPrimalityTests : integer)
5505: Function gcd( a, b : THugeCardinal) : THugeCardinal
5506: Function lcm( a, b : THugeCardinal) : THugeCardinal
5507: Function isCoPrime( a, b : THugeCardinal) : boolean
5508: Function isProbablyPrime(p: THugeCardinal;OnProgress: TProgress; var wasAborted: boolean): boolean
5509: Function hasSmallFactor( p : THugeCardinal) : boolean
5510: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
NumbersTested: integer) : boolean
5511: Function Inverse( Prime, Modulus : THugeCardinal) : THugeCardinal
5512: Const('StandardExponent','LongInt'( 65537);
5513: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
Numbers
5514: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal) : boolean')
5515:
5516: procedure SIRegister_xrtl_math_Integer(CL: TPPSPascalCompiler);
5517: begin
5518:   AddTypeS('TXRTLInteger', 'array of Integer
5519:   AddClassN(FindClass('TOBJECT'),'EXRTLMathException
5520:   (FindClass('TOBJECT'),'EXRTLExtendInvalidArgument
5521:   AddClassN(FindClass('TOBJECT'),'EXRTLDivisionByZero
5522:   AddClassN(FindClass('TOBJECT'),'EXRTLExpInvalidArgument
5523:   AddClassN(FindClass('TOBJECT'),'EXRTLInvalidRadix
5524:   AddClassN(FindClass('TOBJECT'),'EXRTLInvalidRadixDigit
5525:   AddClassN(FindClass('TOBJECT'),'EXRTLRootInvalidArgument
5526:   'BitsPerByte','LongInt'( 8);
5527:   BitsPerDigit','LongInt'( 32);
5528:   SignBitMask,'LongWord( $80000000);
5529:   Function XRTLAdjustBits( const ABits : Integer) : Integer
5530:   Function XRTLlength( const AInteger : TXRTLInteger) : Integer
5531:   Function XRTLDataBits( const AInteger : TXRTLInteger) : Integer
5532:   Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer)
5533:   Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer)
5534:   Procedure XRTLBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer)
5535:   Function XRTLBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer) : Integer
5536:   Function XRTLBitGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer) : Boolean
5537:   Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int;var AResult:TXRTLInteger):Int;
5538:   Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5539:   Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5540:   Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5541:   Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5542:   Procedure XRTLOr( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5543:   Procedure XRTLand( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5544:   Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5545:   Function XRTLSign( const AInteger : TXRTLInteger) : Integer
5546:   Procedure XRTLZero( var AInteger : TXRTLInteger)
5547:   Procedure XRTLOne( var AInteger : TXRTLInteger)
5548:   Procedure XRTLMOne( var AInteger : TXRTLInteger)
5549:   Procedure XRTLTTwo( var AInteger : TXRTLInteger)
5550:   Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5551:   Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5552:   Procedure XRTLFullSum( const A, B, C : Integer; var Sum, Carry : Integer)
5553:   Function XRTLAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5554:   Function XRTLAdd1(const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5555:   Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5556:   Function XRTLSub1( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5557:   Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger) : Integer;
5558:   Function XRTLCompare1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64) : Integer;
5559:   Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5560:   Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer
5561:   Function XRTLMul( const AInteger, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5562:   Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger)
5563:   Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5564:   Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5565:   Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5566:   Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHightApproxResult:TXRTLInteger)
5567:   Procedure XRTLURootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHightApproxResult:TXRTLInteger);
5568:   Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5569:   Procedure XRTLMulMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult:TXRTLInteger)
5570:   Procedure XRTLSLBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5571:   Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5572:   Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5573:   Procedure XRTLSSDL(const AInteger: TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5574:   Procedure XRTLRCDL(const AInteger: TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5575:   Procedure XRTLSLBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5576: 
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5577: Procedure XRTLSABR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5578: Procedure XRTLRCBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5579: Procedure XRTLSDLR( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5580: Procedure XRTLSADR( const AInteger : TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5581: Procedure XRTLRCDR( const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger)
5582: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer) : string
5583: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer) : string
5584: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer) : string
5585: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger)
5586: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger)
5587: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer)
5588: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger);
5589: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger);
5590: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger)
5591: Procedure XRTLSplit( const AInteger: TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5592: Function XRTLGetMSBIndex( const AInteger : TXRTLInteger) : Integer
5593: Procedure XRTLMinMax( const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger)
5594: Procedure XRTLMIn( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5595: Procedure XRTLMInl( const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger);
5596: Procedure XRTLMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5597: Procedure XRTLMaxl( const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger);
5598: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5599: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger)
5600: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5601: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5602: end;
5603:
5604:
5605: procedure SIRegister_JvXPCoreUtils(CL: TPSPPascalCompiler);
5606: begin
5607:   Function JvXPMETHODSEqual( const Method1, Method2 : TMETHOD) : Boolean
5608:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer)
5609:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap);
5610:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect)
5611:   Procedure JvXPDrawBoundLines(const ACan:TCanvas;const BoundLns:TJvXPBoundLns;const
      AColor:TColor;Rect:TRect;
5612:   Procedure JvXPConvertToGray2( Bitmap : TBitmap)
5613:   Procedure JvXPRENDERText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer)
5614:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool;
5615:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor)
5616:   Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer)
5617:   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)
5618: end;
5619:
5620:
5621: procedure SIRegister_uwinstr(CL: TPSPPascalCompiler);
5622: begin
5623:   Function StrDec( S : String) : String
5624:   Function uIsNumeric( var S : String; var X : Float) : Boolean
5625:   Function ReadNumFromEdit( Edit : TEdit) : Float
5626:   Procedure WriteNumToFile( var F : Text; X : Float)
5627: end;
5628:
5629: procedure SIRegister_utexplot(CL: TPSPPascalCompiler);
5630: begin
5631:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean) : Boolean
5632:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
5633:   Procedure TeX_LeaveGraphics( Footer : Boolean)
5634:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5635:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5636:   Procedure TeX_SetGraphTitle( Title : String)
5637:   Procedure TeX_SetOxTitle( Title : String)
5638:   Procedure TeX_SetOyTitle( Title : String)
5639:   Procedure TeX_PlotOxAxis
5640:   Procedure TeX_PlotOyAxis
5641:   Procedure TeX_PlotGrid( Grid : TGrid)
5642:   Procedure TeX_WriteGraphTitle
5643:   Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5644:   Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5645:   Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5646:   Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5647:   Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5648:   Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5649:   Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5650:   Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5651:   Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5652:   Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5653:   Function Xcm( X : Float) : Float
5654:   Function Ycm( Y : Float) : Float
5655: end;
5656:
5657: *-----*)
5658: procedure SIRegister_VarRecUtils(CL: TPSPPascalCompiler);

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

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

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5818: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis): Extended;
5819: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5820: Function DollarToDecimalText( DecDollar : Extended ) : string
5821: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5822: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5823: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended
5824: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
    PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5825: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5826: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5827: Function InterestRateS(NPeriods:Int;Pmt,PV,
    FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5828: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5829: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5830: Function IsCardValid( const S : string ) : Boolean
5831: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
    Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5832: Function ModifiedIRR(const Values: array of Double; FinanceRate,ReinvestRate: Extended) : Extended
5833: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended) : Extended
5834: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5835: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5836: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency ) : Extended
5837: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5838: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5839: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
    : TStPaymentTime ) : Extended
5840: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5841: Function PresentValueS( Rate : Extended; NPeriods : Integer; Pmt, FV: Extended; Frequency : TStFrequency;
    Timing : TStPaymentTime ) : Extended
5842: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5843: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5844: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5845: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5846: Function TBillyYield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5847: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
    Factor : Extended; NoSwitch : boolean ) : Extended
5848: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5849: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
    Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5850: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5851:
5852: //*****unit uPSI_StAstroP;
5853: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5854: //****unit unit uPSI_StStat; Statistic Package of SysTools*****
5855: Function AveDev( const Data : array of Double ) : Double
5856: Function AveDev16( const Data, NData : Integer ) : Double
5857: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5858: Function Correlation( const Data1, Data2 : array of Double ) : Double
5859: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5860: Function Covariance( const Data1, Data2 : array of Double ) : Double
5861: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5862: Function DevSq( const Data : array of Double ) : Double
5863: Function DevSq16( const Data, NData : Integer ) : Double
5864: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5865: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5866: Function GeometricMeanS( const Data : array of Double ) : Double
5867: Function GeometricMean16( const Data, NData : Integer ) : Double
5868: Function HarmonicMeanS( const Data : array of Double ) : Double
5869: Function HarmonicMean16( const Data, NData : Integer ) : Double
5870: Function Largest( const Data : array of Double; K : Integer ) : Double
5871: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5872: Function MedianS( const Data : array of Double ) : Double
5873: Function Median16( const Data, NData : Integer ) : Double
5874: Function Mode( const Data : array of Double ) : Double
5875: Function Mode16( const Data, NData : Integer ) : Double
5876: Function Percentile( const Data : array of Double; K : Double ) : Double
5877: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5878: Function PercentRank( const Data : array of Double; X : Double ) : Double
5879: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5880: Function Permutations( Number, NumberChosen : Integer ) : Extended
5881: Function Combinations( Number, NumberChosen : Integer ) : Extended
5882: Function Factorials( N : Integer ) : Extended
5883: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5884: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5885: Function Smallest( const Data : array of Double; K : Integer ) : Double
5886: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5887: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5888: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5889: AddTypeS('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB'
5890:     +'1 : Double; R2 : Double; sigma :Double; SSr: double; SSe: Double; F0 : Double; df : Integer;end
5891: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var
    LF:TStLinEst;ErrorStats:Bool;
5892: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var
    LF:TStLinEst;ErrorStats:Bool;
5893: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5894: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5895: Function Intercept( const KnownY : array of Double; const KnownX : array of Double ) : Double
5896: Function RSquared( const KnownY : array of Double; const KnownX : array of Double ) : Double
5897: Function Slope( const KnownY : array of Double; const KnownX : array of Double ) : Double

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5898: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double) : Double
5899: Function BetaDist( X, Alpha, Beta, A, B : Single) : Single
5900: Function BetaInv( Probability, Alpha, Beta, A, B : Single) : Single
5901: Function BinomDist( NumbersS, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5902: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single) : Integer
5903: Function ChiDist( X : Single; DegreesFreedom : Integer) : Single
5904: Function ChiInv( Probability : Single; DegreesFreedom : Integer) : Single
5905: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5906: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5907: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5908: Function LogNormDist( X, Mean, StandardDev : Single) : Single
5909: Function LogInv( Probability, Mean, StandardDev : Single) : Single
5910: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5911: Function NormInv( Probability, Mean, StandardDev : Single) : Single
5912: Function NormSDist( Z : Single) : Single
5913: Function NormSInv( Probability : Single) : Single
5914: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5915: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5916: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5917: Function Erfc( X : Single) : Single
5918: Function GammaLn( X : Single) : Single
5919: Function LargestSort( const Data : array of Double; K : Integer) : Double
5920: Function SmallestSort( const Data : array of double; K : Integer) : Double
5921:
5922: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5923: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt) : LongInt
5924: Function MinimumHeapToUse( RecLen : Cardinal) : LongInt
5925: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt) : TMergeInfo
5926: Function DefaultMergeName( MergeNum : Integer) : string
5927: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5928:
5929: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5930: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5931: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5932: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5933: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5934: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5935: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5936: Function LunarPhase( UT : TStDateTimeRec) : Double
5937: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5938: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5939: Function FirstQuarter( D : TStDate) : TStLunarRecord
5940: Function FullMoon( D : TStDate) : TStLunarRecord
5941: Function LastQuarter( D : TStDate) : TStLunarRecord
5942: Function NewMoon( D : TStDate) : TStLunarRecord
5943: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5944: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5945: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5946: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5947: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5948: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5949: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5950: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5951: Function SiderealTime( UT : TStDateTimeRec) : Double
5952: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5953: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec
5954: Function SEaster( Y, Epoch : Integer) : TStDate
5955: Function DateToAJD( D : TDateTime) : Double
5956: Function HoursMin( RA : Double) : ShortString
5957: Function DegsMin( DC : Double) : ShortString
5958: Function AJDToDate( D : Double) : TDateTime
5959:
5960: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5961: Function CurrentDate : TStDate
5962: Function StValidDate( Day, Month, Year, Epoch : Integer) : Boolean
5963: Function DMYtoStDate( Day, Month, Year, Epoch : Integer) : TStDate
5964: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer)
5965: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer) : TStDate
5966: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer) : TStDate
5967: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer)
5968: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType) : TStDate
5969: Function WeekOfYear( Julian : TStDate) : Byte
5970: Function AstJulianDate( Julian : TStDate) : Double
5971: Function AstJulianDatestoStDate( AstJulian : Double; Truncate : Boolean) : TStDate
5972: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime) : Double
5973: Function StDayOfWeek( Julian : TStDate) : TStDayType
5974: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer) : TStDayType
5975: Function StIsLeapYear( Year : Integer) : Boolean
5976: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer) : Integer
5977: Function ResolveEpoch( Year, Epoch : Integer) : Integer
5978: Function ValidTime( Hours, Minutes, Seconds : Integer) : Boolean
5979: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte)
5980: Function HMStoStTime( Hours, Minutes, Seconds : Byte) : TStTime
5981: Function CurrentTime : TStTime
5982: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte)
5983: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5984: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5985: Function RoundToNearestHour( T : TStTime; Truncate : Boolean) : TStTime
5986: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean) : TStTime

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5987: Procedure DateTimeDiff( const DT1:TStDateTimeRec; var DT2:TStDateTimeRec; var Days:LongInt; var Secs:LongInt )
5988: Procedure IncDateTime( const DT1:TStDateTimeRec; var DT2:TStDateTimeRec; Days:Integer; Secs:LongInt )
5989: Function DateTimeToStDate( DT : TDateTime ) : TStDate
5990: Function DateTimeToStTime( DT : TDateTime ) : TStTime
5991: Function StDateToDateTime( D : TStDate ) : TDateTime
5992: Function StTimeToDateTime( T : TStTime ) : TDateTime
5993: Function Convert2ByteDate( TwoByteDate : Word ) : TStDate
5994: Function Convert4ByteDate( FourByteDate : TStDate ) : Word
5995:
5996: Procedure SIRegister_StDateSt(CL: TPSPascalCompiler);
5997: Function DateStringHMSToAstJD( const Picture, DS : string; H, M, S, Epoch : integer ) : Double
5998: Function MonthToString( const Month : Integer ) : string
5999: Function DateStringToDMY( const Picture,S:string;Epoch:Integer; var D, M, Y : Integer):Boolean
6000: Function StDateToString( const Picture : string; Julian : TStDate; Pack : Boolean):string
6001: Function DayOfWeekToString( const WeekDay : TSDDayType) : string
6002: Function DMYToString(const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
6003: Function CurrentDateString( const Picture : string; Pack : Boolean) : string
6004: Function CurrentTimeString( const Picture : string; Pack : Boolean) : string
6005: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer ) : Boolean
6006: Function TimeStringToStTime( const Picture, S : string ) : TStTime
6007: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
6009: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
6010: Function DateStringIsBlank( const Picture, S : string ) : Boolean
6011: Function InternationalDate( ForceCentury : Boolean ) : string
6012: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean ) : string
6013: Function InternationalTime( ShowSeconds : Boolean ) : string
6014: Procedure ResetInternationalInfo
6015:
6016: procedure SIRegister_StBase(CL: TPSPascalCompiler);
6017: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer ) : Boolean
6018: Function AnsiUpperCaseShort32( const S : string ) : string
6019: Function AnsiCompareTextShort32( const S1, S2 : string ) : Integer
6020: Function AnsiCompareStrShort32( const S1, S2 : string ) : Integer
6021: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer ) : Longint
6022: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
6023: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte)
6024: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal)
6025: Function Upcase( C : AnsiChar ) : AnsiChar
6026: Function LoCase( C : AnsiChar ) : AnsiChar
6027: Function CompareLetterSets( Set1, Set2 : LongInt ) : Cardinal
6028: Function CompStruct( const S1, S2, Size : Cardinal ) : Integer
6029: Function Search( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
6030: Function StSearch( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi ):Boolean
6031: Function SearchUC( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi ):Boolean
6032: Function IsOrInheritsFrom( Root, Candidate : TClass ) : boolean
6033: Procedure RaiseContainerError( Code : longint )
6034: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const )
6035: Function ProductOverflow( A, B : LongInt ) : Boolean
6036: Function StNewStr( S : string ) : PShortString
6037: Procedure StDisposeStr( PS : PShortString )
6038: Procedure VallongInt( S : ShortString; var LI : Longint; var ErrorCode : integer )
6039: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer )
6040: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer )
6041: Procedure RaiseStError( ExceptionClass : ESTExceptionClass; Code : LongInt )
6042: Procedure RaiseStWin32Error( ExceptionClass : ESTExceptionClass; Code : LongInt )
6043: Procedure RaiseStWin32ErrorEx( ExceptionClass : ESTExceptionClass; Code : LongInt; Info : string )
6044:
6045: procedure SIRegister_usvd(CL: TPSPascalCompiler);
6046: begin
6047: Procedure SV_DecomP( A : TMatrix; Lb, Ubl, Ub2 : Integer; S : TVector; V : TMatrix )
6048: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float )
6049: Procedure SV_Solve(U:TMatrix; S:TVector;V:TMatrix;B:TVector;Lb,Ubl,Ub2:Integer;X:TVector );
6050: Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ubl, Ub2 : Integer; A : TMatrix )
6051: Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int );
6052: end;
6053:
6054: //*****unit unit ; StMath Package of SysTools*****
6055: Function IntPowerS( Base : Extended; Exponent : Integer ) : Extended
6056: Function PowerS( Base, Exponent : Extended ) : Extended
6057: Function StInvCos( X : Double ) : Double
6058: Function StInvsin( Y : Double ) : Double
6059: Function StInvTan2( X, Y : Double ) : Double
6060: Function StTan( A : Double ) : Double
6061: Procedure DumpException; //unit StExpEng;
6062: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string
6063:
6064: //*****unit unit ; STCRC Package of SysTools*****
6065: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
6066: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
6067: Function Adler32OfFile( FileName : AnsiString ) : LongInt
6068: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6069: Function Crc16OfFile( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6070: Function Crc16OfFile( FileName : AnsiString ) : Cardinal
6071: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
6072: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
6073: Function Crc32OfFile( FileName : AnsiString ) : LongInt
6074: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6075: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal

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6076: Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
6077: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6078: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6079: Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
6080:
6081: //*****unit unit ; StBCD Package of SysTools*****
6082: Function AddBcd( const B1, B2 : TbcdS ) : TbcdS
6083: Function SubBcd( const B1, B2 : TbcdS ) : TbcdS
6084: Function MulBcd( const B1, B2 : TbcdS ) : TbcdS
6085: Function DivBcd( const B1, B2 : TbcdS ) : TbcdS
6086: Function ModBcd( const B1, B2 : TbcdS ) : TbcdS
6087: Function NegBcd( const B : TbcdS ) : TbcdS
6088: Function AbsBcd( const B : TbcdS ) : TbcdS
6089: Function FracBcd( const B : TbcdS ) : TbcdS
6090: Function IntBcd( const B : TbcdS ) : TbcdS
6091: Function RoundDigitsBcd( const B : TbcdS; Digits : Cardinal ) : TbcdS
6092: Function RoundPlacesBcd( const B : TbcdS; Places : Cardinal ) : TbcdS
6093: Function ValBcd( const S : string ) : TbcdS
6094: Function LongBcd( L : LongInt ) : TbcdS
6095: Function ExtBcd( E : Extended ) : TbcdS
6096: Function ExpBcd( const B : TbcdS ) : TbcdS
6097: Function LnBcd( const B : TbcdS ) : TbcdS
6098: Function IntPowBcd( const B : TbcdS; E : LongInt ) : TbcdS
6099: Function PowBcd( const B, E : TbcdS ) : TbcdS
6100: Function SqrtBcd( const B : TbcdS ) : TbcdS
6101: Function CmpBcd( const B1, B2 : TbcdS ) : Integer
6102: Function EqDigitsBcd( const B1, B2 : TbcdS; Digits : Cardinal ) : Boolean
6103: Function EqPlacesBcd( const B1, B2 : TbcdS; Digits : Cardinal ) : Boolean
6104: Function IsIntBcd( const B : TbcdS ) : Boolean
6105: Function TruncBcd( const B : TbcdS ) : LongInt
6106: Function BcdExt( const B : TbcdS ) : Extended
6107: Function RoundBcd( const B : TbcdS ) : LongInt
6108: Function StrBcd( const B : TbcdS; Width, Places : Cardinal ) : string
6109: Function StrExpBcd( const B : TbcdS; Width : Cardinal ) : string
6110: Function FormatBcd( const Format : string; const B : TbcdS ) : string
6111: Function StrGeneralBcd( const B : TbcdS ) : string
6112: Function FloatFormBcd(const Mask:string;B:TbcdS;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6113: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte )
6114:
6115: //*****unit unit ; StTxtDat; TStTextDataRecordSet Package of SysTools*****
6116: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings )
6117: Function StFieldTypeToStr( FieldType : TStSchemaFieldType ) : AnsiString
6118: Function StStrToFieldType( const S : AnsiString ) : TStSchemaFieldType
6119: Function StDeEscape( const EscStr : AnsiString ) : Char
6120: Function StDoEscape( Delim : Char ) : AnsiString
6121: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char ) : AnsiString
6122: Function AnsiHashText( const S : string; Size : Integer ) : Integer
6123: Function AnsiHashStr( const S : string; Size : Integer ) : Integer
6124: Function AnsiELFHashText( const S : string; Size : Integer ) : Integer
6125: Function AnsiELFHashStr( const S : string; Size : Integer ) : Integer
6126:
6127: //*****unit unit ; StNetCon Package of SysTools*****
6128: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6129:   Constructor Create( AOwner : TComponent )
6130:   Function Connect : DWord
6131:   Function Disconnect : DWord
6132:   RegisterProperty('Password', 'String', iptrw);
6133:   Property('UserName', 'String', iptrw);
6134:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6135:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6136:   Property('LocalDevice', 'String', iptrw);
6137:   Property('ServerName', 'String', iptrw);
6138:   Property('ShareName', 'String', iptrw);
6139:   Property('OnConnect', 'TNotifyEvent', iptrw);
6140:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6141:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6142:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6143:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6144:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6145: end;
6146: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6147: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6148: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection )
6149: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection )
6150: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection )
6151: Function InitializeCriticalSectionAndSpinCount(var
6152:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6153: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6154: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL
6155: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection )
6156: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL
6157: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL
6158: Function SuspendThread( hThread : THHandle ) : DWORD
6159: Function ResumeThread( hThread : THHandle ) : DWORD
6160: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THHandle
6161: Function GetCurrentThread : THHandle
6162: Procedure ExitThread( dwExitCode : DWORD )
6163: Function TerminateThread( hThread : THHandle; dwExitCode : DWORD ) : BOOL
6164: Function GetExitCodeThread( hThread : THHandle; var lpExitCode : DWORD ) : BOOL

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6164: Procedure EndThread(ExitCode: Integer);
6165: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD
6166: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC
6167: Procedure FreeProcInstance( Proc : FARPROC )
6168: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD )
6169: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL
6170: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6171: Procedure ParallelJob1( ATTarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6172: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool);
6173: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection:boolean );
6174: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob);
6175: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6176: Function CurrentParallelJobInfo : TParallelJobInfo
6177: Function ObtainParallelJobInfo : TParallelJobInfo
6178: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo' );
6179: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD ) : BOOL';
6180: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle ) : BOOL';
6181: Function
  DeviceIoControl(hDevice:THandle;dwIoControlCode:DWORD;lpInBuffer:TObject;nInBufferSize:DWORD;lpOutBuffer:
  TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped:TOverlapped):BOOL';
6182: Function SetFileTime(hFile:THandle;lpCreationTime,lpLastAccessTime,lpLastWriteTime:TFileTime): BOOL';
6183: Function DuplicateHandle(hSourceProcessHandle,hSourceHandle,hTargetProcessHandle:THandle;
  lpTargetHandle:THandle; dwDesiredAccess : DWORD; bInheritHandle:BOOL; dwOptions : DWORD ) : BOOL';
6184: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD ) : BOOL';
6185: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD ) : BOOL';
6186:
6187: *****unit uPSI_JclMime;
6188: Function MimeEncodeString( const S : AnsiString ) : AnsiString
6189: Function MimeDecodeString( const S : AnsiString ) : AnsiString
6190: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream)
6191: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream)
6192: Function MimeEncodedSize( const I : Cardinal ) : Cardinal
6193: Function MimeDecodedSize( const I : Cardinal ) : Cardinal
6194: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer )
6195: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6196: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
  OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : Cardinal
6197: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):
  Cardinal;
6198:
6199: *****unit uPSI_JclPrint;
6200: Procedure DirectPrint( const Printer, Data : string )
6201: Procedure SetPrinterPixelsPerInch
6202: Function GetPrinterResolution : TPoint
6203: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer
6204: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect )
6205:
6206:
6207: //*****unit uPSI_ShLwApi,*****
6208: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar
6209: Function StrChri( lpStart : PChar; wMatch : WORD ) : PChar
6210: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6211: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6212: Function StrCSpn( lpStr_ , lpSet : PChar ) : Integer
6213: Function StrCSpnI( lpStr1, lpSet : PChar ) : Integer
6214: Function StrDup( lpSrch : PChar ) : PChar
6215: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar
6216: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar
6217: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6218: Function StrIsIntLEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6219: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6220: Function StrPBrk( psz, pszSet : PChar ) : PChar
6221: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6222: Function StrRCrhi( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6223: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar
6224: Function StrSpn( psz, pszSet : PChar ) : Integer
6225: Function StrStr( lpFirst, lpSrch : PChar ) : PChar
6226: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar
6227: Function StrToInt( lpSrch : PChar ) : Integer
6228: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL
6229: Function StrTrim( psz : PChar; pszTrimChars : PChar ) : BOOL
6230: Function ChrCmpI( w1, w2 : WORD ) : BOOL
6231: Function ChrCmpIA( w1, w2 : WORD ) : BOOL
6232: Function ChrCmpIW( w1, w2 : WORD ) : BOOL
6233: Function StrIntLEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6234: Function StrIntEqNI( s1, s2 : PChar; nChar : Integer ) : BOOL
6235: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer ) : PChar
6236: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6237: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6238: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6239: SZ_CONTENTTYPE_HTMLA', 'String 'text/html
6240: SZ_CONTENTTYPE_HTMLW', 'String 'text/html
6241: SZ_CONTENTTYPE_HTML', 'string SZ_CONTENTTYPE_HTMLA);
6242: SZ_CONTENTTYPE_CDFA', 'String 'application/x-cdf
6243: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf
6244: SZ_CONTENTTYPE_CDF', 'string SZ_CONTENTTYPE_CDFA);
6245: Function PathIsHTMLfile( pszPath : PChar ) : BOOL
6246: STIF_DEFAULT', 'LongWord( $00000000);
6247: STIF_SUPPORT_HEX', 'LongWord( $00000001);

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6248: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6249: Function StrNCopy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6250: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6251: Function PathAddBackslash( pszPath : PChar ) : PChar
6252: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6253: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL
6254: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6255: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6256: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6257: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT ) : BOOL
6258: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6259: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6260: Function PathFileExists( pszPath : PChar ) : BOOL
6261: Function PathFindExtension( pszPath : PChar ) : PChar
6262: Function PathFindFileName( pszPath : PChar ) : PChar
6263: Function PathFindNextComponent( pszPath : PChar ) : PChar
6264: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6265: Function PathGetArgs( pszPath : PChar ) : PChar
6266: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6267: Function PathIsLFNFileSpec( lpName : PChar ) : BOOL
6268: Function PathGetCharType( ch : Char ) : UINT
6269: GCT_INVALID', 'LongWord( $0000);
6270: GCT_LFNCHAR', 'LongWord( $0001);
6271: GCT_SHORTCHAR', 'LongWord( $0002);
6272: GCT_WILD', 'LongWord( $0004);
6273: GCT_SEPARATOR', 'LongWord( $0008);
6274: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6275: Function PathIsDirectory( pszPath : PChar ) : BOOL
6276: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6277: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6278: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6279: Function PathIsRelative( pszPath : PChar ) : BOOL
6280: Function PathIsRoot( pszPath : PChar ) : BOOL
6281: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6282: Function PathIsUNC( pszPath : PChar ) : BOOL
6283: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6284: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6285: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6286: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6287: Function PathIsURL( pszPath : PChar ) : BOOL
6288: Function PathMakePretty( pszPath : PChar ) : BOOL
6289: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6290: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6291: Procedure PathQuoteSpaces( lpsz : PChar )
6292: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6293: Procedure PathRemoveArgs( pszPath : PChar )
6294: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6295: Procedure PathRemoveBlanks( pszPath : PChar )
6296: Procedure PathRemoveExtension( pszPath : PChar )
6297: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6298: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6299: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6300: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6301: Function PathSkipRoot( pszPath : PChar ) : PChar
6302: Procedure PathStripPath( pszPath : PChar )
6303: Function PathStripToRoot( pszPath : PChar ) : BOOL
6304: Procedure PathUnquoteSpaces( lpsz : PChar )
6305: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6306: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6307: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD ) : BOOL
6308: Procedure PathUndecorate( pszPath : PChar )
6309: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6310: URL_SCHEME_INVALID', 'LongInt'( - 1);
6311: URL_SCHEME_UNKNOWN', 'LongInt'( 0 );
6312: URL_SCHEME_FTP', 'LongInt'( 1 );
6313: URL_SCHEME_HTTP', 'LongInt'( 2 );
6314: URL_SCHEME_GOPHER', 'LongInt'( 3 );
6315: URL_SCHEME_MAILTO', 'LongInt'( 4 );
6316: URL_SCHEME_NEWS', 'LongInt'( 5 );
6317: URL_SCHEME_NNTP', 'LongInt'( 6 );
6318: URL_SCHEME_TELNET', 'LongInt'( 7 );
6319: URL_SCHEME_WAIS', 'LongInt'( 8 );
6320: URL_SCHEME_FILE', 'LongInt'( 9 );
6321: URL_SCHEME_MK', 'LongInt'( 10 );
6322: URL_SCHEME_HTTPS', 'LongInt'( 11 );
6323: URL_SCHEME_SHELL', 'LongInt'( 12 );
6324: URL_SCHEME_SNEWS', 'LongInt'( 13 );
6325: URL_SCHEME_LOCAL', 'LongInt'( 14 );
6326: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15 );
6327: URL_SCHEME_VBSCRIPT', 'LongInt'( 16 );
6328: URL_SCHEME_ABOUT', 'LongInt'( 17 );
6329: URL_SCHEME_RES', 'LongInt'( 18 );
6330: URL_SCHEME_MAXVALUE', 'LongInt'( 19 );
6331: URL_SCHEME', 'Integer
6332: URL_PART_NONE', 'LongInt'( 0 );
6333: URL_PART_SCHEME', 'LongInt'( 1 );
6334: URL_PART_HOSTNAME', 'LongInt'( 2 );
6335: URL_PART_USERNAME', 'LongInt'( 3 );
6336: URL_PART_PASSWORD', 'LongInt'( 4 );

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6337: URL_PART_PORT', 'LongInt'( 5);
6338: URL_PART_QUERY', 'LongInt'( 6);
6339: URL_PART', 'DWORD
6340: URLIS_URL', 'LongInt'( 0);
6341: URLIS_OPAQUE', 'LongInt'( 1);
6342: URLIS_NOHISTORY', 'LongInt'( 2);
6343: URLIS_FILEURL', 'LongInt'( 3);
6344: URLIS_APPLICABLE', 'LongInt'( 4);
6345: URLIS_DIRECTORY', 'LongInt'( 5);
6346: URLIS_HASQUERY', 'LongInt'( 6);
6347: TURLIs', 'DWORD
6348: URL_UNESCAPE', 'LongWord( $10000000);
6349: URL_ESCAPE_UNSAFE', 'LongWord( $20000000);
6350: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000);
6351: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6352: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000);
6353: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000);
6354: URL_DONT_SIMPLIFY', 'LongWord( $08000000);
6355: URL_NO_META', 'longword( URL_DONT_SIMPLIFY);
6356: URL_UNESCAPE_INPLACE', 'LongWord( $00100000);
6357: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000);
6358: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000);
6359: URL_INTERNAL_PATH', 'LongWord( $00800000);
6360: URL_FILE_USE_PATHURL', 'LongWord( $00010000);
6361: URL_ESCAPE_PERCENT', 'LongWord( $00001000);
6362: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000);
6363: URL_PARTFLAG_KEEPSCHEME', 'LongWord( $00000001);
6364: URL_APPLY_DEFAULT', 'LongWord( $00000001);
6365: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002);
6366: URL_APPLY_GUESSFILE', 'LongWord( $00000004);
6367: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008);
6368: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL) : Integer
6369: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6370: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6371: Function UrlIsOpaque( pszURL : PChar) : BOOL
6372: Function UrlIsNoHistory( pszURL : PChar) : BOOL
6373: Function UrlIsFileUrl( pszURL : PChar) : BOOL
6374: Function UrlIs( pszUrl : PChar; UrlIs : TURLIs) : BOOL
6375: Function UrlGetLocation( psz1 : PChar) : PChar
6376: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD) : HRESULT
6377: Function UrlEscape(pszUrl: PChar; pszEscaped: PChar; pcchEscaped:DWORD; dwFlags : DWORD) : HRESULT
6378: Function UrlCreateFromPath(pszPath:PChar; pszUrl: PChar;pcchUrl: DWORD; dwFlags : DWORD) : HRESULT
6379: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD) : HRESULT
6380: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD) : HRESULT
6381: Function UrlGetPart(pszIn : PChar; pszOut: PChar; pcchOut: DWORD; dwPart,dwFlags: DWORD) : HRESULT
6382: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD) : HRESULT
6383: Function HashData( pData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD) : HRESULT
6384: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD) : HRESULT
6385: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD) : HRESULT
6386: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6387: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6388: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar) : DWORD
6389: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD) : Longint
6390: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName: PChar; var
pcchValueName:DWORD; pdwType:DWORD; pvData : _Pointer; pcbData : DWORD) : Longint
6391: Function SHQueryInfoKey(hKey:HKEY;pcchSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6392: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD) : DWORD
6393: Function SHRegGetPath(hKey:HKEY; ppszSubKey,ppszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6394: Function SHRegSetPath( hKey:HKEY; ppszSubKey, ppszValue, ppszPath : PChar; dwFlags : DWORD): DWORD
6395: SHREGDEL_DEFAULT', 'LongWord( $00000000);
6396: SHREGDEL_HKCU', 'LongWord( $00000001);
6397: SHREGDEL_HKLM', 'LongWord( $00000010);
6398: SHREGDEL_BOTH', 'LongWord( $00000011);
6399: SHREGENUM_DEFAULT', 'LongWord( $00000000);
6400: SHREGENUM_HKCU', 'LongWord( $00000001);
6401: SHREGENUM_HKLM', 'LongWord( $00000010);
6402: SHREGENUM_BOTH', 'LongWord( $00000011);
6403: SHREGSET_HKCU', 'LongWord( $00000001);
6404: SHREGSET_FORCE_HKCU', 'LongWord( $00000002);
6405: SHREGSET_HKLM', 'LongWord( $00000004);
6406: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6407: TSHRegDelFlags', 'DWORD
6408: TSHRegEnumFlags', 'DWORD
6409: HUSKEY', 'THandle
6410: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6411: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6412: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6413: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6414: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6415: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6416: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6417: ASSOCF_VERIFY', 'LongWord( $00000040);
6418: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6419: ASSOCF_NOFIXUPS', 'LongWord( $00000100);
6420: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6421: ASSOCF', 'DWORD
6422: ASSOCSTR_COMMAND', 'LongInt'( 1);
6423: ASSOCSTR_EXECUTABLE', 'LongInt'( 2);
6424: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3);

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6425: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4);
6426: ASSOCSTR_NOOPEN', 'LongInt'( 5);
6427: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6);
6428: ASSOCSTR_DDECOMMAND', 'LongInt'( 7);
6429: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8);
6430: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9);
6431: ASSOCSTR_DDETOPIC', 'LongInt'( 10);
6432: ASSOCSTR_INFOTIP', 'LongInt'( 11);
6433: ASSOCSTR_MAX', 'LongInt'( 12);
6434: ASSOCSTR', 'DWORD
6435: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1);
6436: ASSOCKEY_APP', 'LongInt'( 2);
6437: ASSOCKEY_CLASS', 'LongInt'( 3);
6438: ASSOCKEY_BASECLASS', 'LongInt'( 4);
6439: ASSOCKEY_MAX', 'LongInt'( 5);
6440: ASSOCKEY', 'DWORD
6441: ASSOCDATA_MSIDEScriptor', 'LongInt'( 1);
6442: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6443: ASSOCDATA_QUERYCLASSTORe', 'LongInt'( 3);
6444: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6445: ASSOCDATA_MAX', 'LongInt'( 5);
6446: ASSOCDATA', 'DWORD
6447: ASSOCENUM_NONE', 'LongInt'( 0);
6448: ASSOCENUM', 'DWORD
6449: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6450: SHACF_DEFAULT $00000000;
6451: SHACF_FILESYSTEM', 'LongWord( $00000001);
6452: SHACF_URLHISTORY', 'LongWord( $00000002);
6453: SHACF_URLMRU', 'LongWord( $00000004);
6454: SHACF_USETAB', 'LongWord( $00000008);
6455: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6456: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6457: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6458: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6459: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6460: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6461: Procedure SHSetThreadRef( punk : IUnknown )
6462: Procedure SHGetThreadRef( out ppunk : IUnknown )
6463: CTF_INSIST', 'LongWord( $00000001);
6464: CTF_THREAD_REF', 'LongWord( $00000002);
6465: CTF_PROCESS_REF', 'LongWord( $00000004);
6466: CTF_COINIT', 'LongWord( $00000008);
6467: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6468: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6469: Function ColorHLSTORGB( whue, wLuminance, wSaturation : WORD ) : TColorRef
6470: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6471: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6472: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6473: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6474: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6475: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6476: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6477: Function SetRectEmpty( var lprc : TRect ) : BOOL
6478: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6479: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6480: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6481: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6482:
6483: Function InitializeFlatSB( hWnd : HWND ) : Bool
6484: Procedure UninitializeFlatSB( hWnd : HWND )
6485: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6486: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6487: Function GET_APCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6488: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6489: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6490: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6491: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6492:
6493:
6494: // **** 204 unit uPSI_ShellAPI;
6495: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6496: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6497: Procedure DragFinish( Drop : HDROP )
6498: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6499: Function ShellExecute(hWnd:HWND;Operation,FileName,Parameters,Directory:PChar,ShowCmd:Integer):HINST
6500: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6501: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6502: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6503: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6504: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT ) : HICON
6505: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6506: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6507: Function ExtractIconEx(lpszFile:PChar;nIconIndex:Int;var phiconLarge,phiconSmall:HICON;nIcons:UINT):UINT;
6508: Procedure SHFreeNameMappings( hNameMappings : THandle )
6509:
6510: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001);
6511: DLLVER_PLATFORM_NT', 'LongWord( $00000002);
6512: DLLVER_MAJOR_MASK', 'LongWord( Int64( $FFFF000000000000 ) );
6513: DLLVER_MINOR_MASK', 'LongWord( Int64( $0000FFF000000000 ) );

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6514: DLLVER_BUILD_MASK', 'LongWord( Int64 ( $00000000FFFF0000 ) );
6515: DLLVER_QFE_MASK', 'LongWord( Int64 ( $000000000000FFFF ) );
6516: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6517: Function SimpleXMLEncode( const S : string ) : string
6518: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6519: Function XMLEncode( const S : string ) : string
6520: Function XMLDecode( const S : string ) : string
6521: Function EntityEncode( const S : string ) : string
6522: Function EntityDecode( const S : string ) : string
6523:
6524: procedure RIRegister_CPort_Routines(S: TPSEexec);
6525: Procedure EnumComPorts( Ports : TStrings )
6526: Procedure ListComPorts( Ports : TStrings )
6527: Procedure ComPorts( Ports : TStrings ) //Alias to Arduino
6528: Function GetComPorts: TStringlist;
6529: Function StrToBaudRate( Str : string ) : TBaudRate
6530: Function StrToStopBits( Str : string ) : TStopBits
6531: Function StrToDataBits( Str : string ) : TDataBits
6532: Function StrToParity( Str : string ) : TParityBits
6533: Function StrToFlowControl( Str : string ) : TFlowControl
6534: Function BaudRateToStr( BaudRate : TBaudRate) : string
6535: Function StopBitsToStr( StopBits : TStopBits) : string
6536: Function DataBitsToStr( DataBits : TDataBits) : string
6537: Function ParityToStr( Parity : TParityBits) : string
6538: Function FlowControlToStr( FlowControl : TFlowControl) : string
6539: Function ComErrorsToStr( Errors : TComErrors ) : String
6540:
6541: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
6542: Function DispatchMessage( const lpMsg : TMsg ) : Longint
6543: Function TranslateMessage( const lpMsg : TMsg ) : BOOL
6544: Function SetMessageQueue( cMessagesMax : Integer ) : BOOL
6545: Function PeekMessage( var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT ):BOOL
6546: Function GetMessagePos : DWORD
6547: Function GetMessageTime : Longint
6548: Function GetMessageExtraInfo : Longint
6549: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean ) : string
6550: Procedure JAddToRecentDocs( const Filename : string )
6551: Procedure ClearRecentDocs
6552: Function ExtractIconFromFile( FileName : string; Index : Integer ) : HICON
6553: Function CreateShellLink( const AppName, Desc : string; Dest : string ) : string
6554: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo )
6555: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo )
6556: Function RecycleFile( FileToRecycle : string ) : Boolean
6557: Function JCopyFile( FromFile, ToDir : string ) : Boolean
6558: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType ) : UINT
6559: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT ) : TShellObjectType
6560: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6561: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6562: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6563: Function EnumServicesStatusExA(hSCManager: SC_HANDLE; InfoLevel: SC_ENUM_TYPE; dwServiceType: DWORD; dwServiceState: DWORD; lpServices:LPBYTE;cbBufSize:DWORD;var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD;pszGroupName: LP
6564: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices:LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6565: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6566: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR ) : BOOL
6567:
6568: ***** unit uPSI_JclPeImage;
6569:
6570: Function IsValidPeFile( const FileName : TFileName ) : Boolean
6571: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders ) : Boolean
6572: Function PeCreateNameHintTable( const FileName : TFileName ) : Boolean
6573: Function PeRebaseImage(const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6574: Function PeVerifyCheckSum( const FileName : TFileName ) : Boolean
6575: Function PeClearCheckSum( const FileName : TFileName ) : Boolean
6576: Function PeUpdateCheckSum( const FileName : TFileName ) : Boolean
6577: Function PeDoesExportFunction(const FileName:TFileName;const FuncName:string;Options:TJclSmartCompOptions):Bool;
6578: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6579: Function PeIsExportFunctionForwarded(const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6580: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions ) : Boolean
6581: Function PeDoesImportLibrary(const FileName:TFileName;const LibraryName:string;Recursive:Boolean);Boolean;
6582: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean ) : Boolean
6583: Function PeImportedFunctions(const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string;IncludeLibNames : Boolean): Boolean
6584: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6585: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean

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6586: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6587: Function PeResourceKindNames(const FileN:TFileName;ResourceType:TJclPeResourceKind;const
NamesList:TStrings):Bool
6588: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6589: Function PeBorDependedPackages(const FileName:TFileName;PackagesList:TStrings;FullPathName,
Descript:Bool):Bool;
6590: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6591: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6592: Function PeCreateRequiredImportList(const FileName : TFileName; RequiredImportsList: TStrings): Boolean;
6593: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6594: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6595: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6596: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) :
PImageSectionHeader
6597: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6598: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6599: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):
__Pointer;
6600: SIRegister_TJclPeSectionStream(CL);
6601: SIRegister_TJclPeMapImgHookItem(CL);
6602: SIRegister_TJclPeMapImgHooks(CL);
6603: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer,var
NtHeaders:TImageNtHeaders):Boolean
6604: //Function PeDdbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6605: Type TJclBorUmSymbolKind', '(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6606: TJclBorUmSymbolModifier', '( smQualified, smLinkProc )
6607: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6608: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6609: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6610: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6611: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description :
TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6612: Function PeBorUnmangleName1(const Name:string;var Unmangled:string;var
Description:TJclBorUmDescription):TJclBorUmResult;
6613: Function PeBorUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6614: Function PeBorUnmangleName3( const Name : string ) : string;
6615: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6616: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6617:
6618:
6619: //***** SysTools uPSI_StSystem; ****
6620: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6621: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6622: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6623: //Procedure EnumerateDirectories(const
StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6624: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
IncludeItem:TIncludeItemFunc);
6625: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6626: Function FileMatchesMask( const FileName, FileMask : AnsiString ) : Boolean
6627: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6628: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6629: Function FlushOsBuffers( Handle : Integer ) : Boolean
6630: Function GetCurrentUser : AnsiString
6631: Function GetDiskClass( Drive : Char ) : DiskClass
6632: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
SectorsPerCluster:Cardinal):Bool;
6633: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var
DiskSize:Double):Bool;
6634: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
DiskSize:Comp):Boolean;
6635: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6636: Function GetDiskSpace2(const path: String; index: integer): int64;
6637: Function GetFileCreateDate( const FileName : AnsiString ) : TDateTime
6638: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime
6639: Function GetFileLastModify( const FileName : AnsiString ) : TDateTime
6640: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6641: Function GetLongPath( const APath : AnsiString ) : AnsiString
6642: Function GetMachineName : AnsiString
6643: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6644: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString
6645: Function GetShortPath( const APath : AnsiString ) : AnsiString
6646: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString
6647: Function GetTempFolder( aForceSlash : boolean ) : AnsiString
6648: Function StGetWindowsFolder( aForceSlash : boolean ) : AnsiString
6649: Function GetWorkingFolder( aForceSlash : boolean ) : AnsiString
6650: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6651: Function StIsDirectory( const DirName : AnsiString ) : Boolean
6652: Function IsDirectoryEmpty( const S : AnsiString ) : Integer
6653: Function IsDriveReady( Drive : Char ) : Boolean
6654: Function IsFile( const FileName : AnsiString ) : Boolean
6655: Function IsFileArchive( const S : AnsiString ) : Integer
6656: Function IsFileHidden( const S : AnsiString ) : Integer
6657: Function IsFileReadOnly( const S : AnsiString ) : Integer
6658: Function IsFileSystem( const S : AnsiString ) : Integer
6659: Function LocalDateTimeToGlobal( const DTL : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6660: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char ) : Cardinal
6661: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean
6662: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal

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6663: Procedure SplitPath( const APath : AnsiString; Parts : TStrings )
6664: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6665: Function StDateTimeToUnixTime( const DTL : TStDateTimeRec ) : Longint
6666: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec
6667: Function ValidDrive( Drive : Char ) : Boolean
6668: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6669:
6670: //*****unit uPST_Jc1LANMan;*****
6671: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6672: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6673: Function DeleteAccount( const Servername, Username : string ) : Boolean
6674: Function DeleteLocalAccount( Username : string ) : Boolean
6675: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6676: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6677: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6678: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6679: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6680: Function LocalGroupExists( const Group : string ) : Boolean
6681: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6682: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6683: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6684: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6685: Function IsLocalAccount( const AccountName : string ) : Boolean
6686: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6687: Function GetRandomString( NumChar : cardinal ) : string
6688:
6689: //*****unit uPST_cUtils;*****
6690: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )'
6691: Function cIsWinNT : boolean
6692: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,
  Multitasking:Boolean;
6693: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6694: Function cRunAndGetOutput( Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
  CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean ) : string
6695: Function cGetShortName( FileName : string ) : string
6696: Procedure cShowError( Msg : String )
6697: Function cCommaStrToStr( s : string; formatstr : string ) : string
6698: Function cIncludeQuoteIfSpaces( s : string ) : string
6699: Function cIncludeQuoteIfNeeded( s : string ) : string
6700: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6701: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6702: Function cBuildFilter( var value : string; const FLTStyle : TFILTERSET ) : boolean;
6703: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6704: Function cCodeInstoStr( s : string ) : string
6705: Function cStrtoCodeIns( s : string ) : string
6706: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6707: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6708: Procedure cStrtoPoint( var pt : TPoint; value : string )
6709: Function cPointtoStr( const pt : TPoint ) : string
6710: Function cListtoStr( const List : TStrings ) : string
6711: Function ListtoStr( const List : TStrings ) : string
6712: Procedure StrtoList( s : string; const List : TStrings; const delimiter : char )
6713: Procedure cStrtoList( s : string; const List : TStrings; const delimiter : char )
6714: Function cGetFileType( const FileName : string ) : TUnitType
6715: Function cGetExTyp( const FileName : string ) : TExUnitType
6716: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6717: Function cExpandFileto( const FileName : string; const basePath : string ) : string
6718: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6719: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6720: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6721: Function cGenMakePath( FileName : String ) : String;
6722: Function cGenMakePath2( FileName : String ) : String
6723: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6724: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6725: Function cCalcMod( Count : Integer ) : Integer
6726: Function cGetVersionString( FileName : string ) : string
6727: Function cCheckChangeDir( var Dir : string ) : boolean
6728: Function cGetAssociatedProgram(const Extension:string; var Filename,Description: string):boolean
6729: Function cIsNumeric( s : string ) : boolean
6730: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6731: Function AttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6732: Function GetFileType( const FileName : string ) : TUnitType
6733: Function Atoi(const aStr: string): integer
6734: Function Itoa(const aint: integer): string
6735: Function Atof(const aStr: string): double';
6736: Function Atol(const aStr: string): longint';
6737:
6738:
6739: procedure SIRegister_cHTTP_Utils(CL: TPPascalCompiler);
6740: begin
6741:   FindClass( 'TOBJECT' ), 'EHTTP
6742:   FindClass( 'TOBJECT' ), 'EHTTPParser
6743:   //AnsiCharSet', 'set of AnsiChar
6744:   AnsiStringArray', 'array of AnsiString
6745:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6746:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6747:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'

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6748: +'TPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6749: +'CustomMinVersion : Integer; end
6750: THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6751: +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6752: +'anguage, hntContentEncoding, hntTransferEncoding, hntServer, hntU'
6753: +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6754: +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6755: +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6756: +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6757: +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6758: +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6759: +'nection, hntOrigin, hntKeepAlive )'
6760: THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6761: THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6762: +' AnsiString; end
6763: //PHTTPCustomHeader', '^THTTPCustomHeader // will not work
6764: THTTPContentLengthEnum', '( hcNone, hcLByteCount )'
6765: THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6766: //PHTTPContentLength', '^THTTPContentLength // will not work
6767: THTTPContentTypeMajor', '( hctmCustom, hctmText, hctmImage )'
6768: THTTPContentTypeEnum', '( hcNone, hctCustomParts, hctCustomStri'
6769: +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6770: +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6771: +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScript, hctAppli'
6772: +'ctionCustom, hctAudioCustom, hctVideoCustom )'
6773: THTTPContentType', 'record Value : THTTPContentTypeEnum; CustomM'
6774: +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6775: +'CustomStr : AnsiString; end
6776: THTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )'
6777: THTTPDateField', 'record Value : THTTPDateFieldEnum; DayOfWeek :'
6778: +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6779: +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6780: +'String; DateTime : TDateTime; Custom : AnsiString; end
6781: THTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )'
6782: THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnum'
6783: +'m; Custom : AnsiString; end
6784: THTTPConnectionFieldEnum', '( hcfcNone, hcfcCustom, hcfcClose, hcfcKeepAlive )'
6785: THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6786: +' Custom : AnsiString; end
6787: THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )'
6788: THTTPAgeField', 'record Value : THTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6789: THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )'
6790: THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6791: +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )'
6792: THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6793: +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6794: +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )'
6795: THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end'
6796: THTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6797: +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )'
6798: THTTPContentEncoding', 'record Value:THTTPContentEncodingEnum;Custom:AnsiString; end'
6799: THTTPContentEncodingFieldEnum', '( hcfcNone, hcfcList )'
6800: THTTPContentEncodingField', 'record Value : THTTPContentEncoding'
6801: +'FieldEnum; List : array of THTTPContentEncoding; end
6802: THTTPRetryAfterFieldEnum', '( hrarfNone, hrarfCustom, harfDate, harfSeconds )'
6803: THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum; '
6804: +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6805: THTTPContentRangeFieldEnum', '( hcrcfNone, hcrcfCustom, hcrcfByteRange )'
6806: THTTPContentRangeField', 'record Value : THTTPContentRangeFieldE'
6807: +' +num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6808: THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )'
6809: THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6810: THTTPSetCookieCustomFieldArray', 'array of THTTPSetCookieCustomField'
6811: THTTPSetCookieField', 'record Value : THTTPSetCookieFieldEnum; D'
6812: +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : '
6813: +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSetCookie'
6814: +'CustomFieldArray; Custom : AnsiString; end
6815: //PHTTPSetCookieField', '^THTTPSetCookieField // will not work
6816: THTTPSetCookieFieldArray', 'array of THTTPSetCookieField
6817: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )'
6818: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6819: //PHTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6820: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6821: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries'
6822: +' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6823: THTTPCommonHeaders', 'record TransferEncoding : THTTPTransferEnc'
6824: +'oding; ContentType : THTTPContentType; ContentLength : THTTPContentLength; '
6825: +' Connection : THTTPConnectionField; ProxyConnection : THTTPConnectionField'
6826: +' ; Date : THTTPDateField; ContentEncoding : THTTPContentEncodingField; end
6827: THTTPCustomHeaders', 'array of THTTPCustomHeader
6828: //THTTPFixedHeaders', 'array[THTTPHeaderNameEnum] of AnsiString
6829: THTTPFixedHeaders', 'array[0..42] of AnsiString
6830: THTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6831: +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )'
6832: THTTPMethod', 'record Value : THTTPMethodEnum; Custom : AnsiString; end
6833: THTTPRequestStartLine', 'record Method: THTTPMethod;URI: AnsiString;Version:THTTPVersion; end
6834: THTTPRequestHeader', 'record CommonHeaders : THTTPCommonHeaders; '
6835: +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo'
6836: +'kie : THTTPCookieField; IfModifiedSince:THTTPDateField;IfUnmodifiedSince:THTTPDateField;end

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6837: //^THTTTPRequestHeader', '^THTTTPRequestHeader // will not work
6838: THTTTPRequest', 'record StartLine : THTTTPRequestStartLine; Header'
6839: +' : THTTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6840: THTTTPResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK)
6841: THTTTPResponseStartLine', 'record Version : THTTTPVersion; Code : '
6842: +'Integer; Msg : THTTTPResponseStartLineMessage; CustomMsg : AnsiString; end
6843: THTTTPResponseHeader', 'record CommonHeaders : THTTTPCommonHeaders'
6844: +' ; FixedHeaders : THTTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6845: +'okies : THTTPSSetCookieFieldArray; Expires : THTTTPDateField; LastModified : '
6846: +' THTTTPDateField; Age : THTTPAgeField; end
6847: //^THTTTPResponseHeader', '^THTTTPResponseHeader // will not work
6848: THTTTPResponse', 'record StartLine : THTTTPResponseStartLine; Head'
6849: +'er : THTTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6850: Function HTTPMessageHasContent( const H : THTTTPCommonHeaders ) : Boolean
6851: Procedure InitTHTTTPRequest( var A : THTTTPRequest )
6852: Procedure InitTHTTTPResponse( var A : THTTTPResponse )
6853: Procedure ClearTHTTTPVersion( var A : THTTTPVersion )
6854: Procedure ClearTHTTTPContentLength( var A : THTTTPContentLength )
6855: Procedure ClearTHTTTPContentType( var A : THTTTPContentType )
6856: Procedure ClearTHTTTPDateField( var A : THTTTPDateField )
6857: Procedure ClearTHTTTPTransferEncoding( var A : THTTTPTransferEncoding )
6858: Procedure ClearTHTTTPConnectionField( var A : THTTTPConnectionField )
6859: Procedure ClearTHTTTPAgeField( var A : THTTPAgeField )
6860: Procedure ClearTHTTTPContentEncoding( var A : THTTTPContentEncoding )
6861: Procedure ClearTHTTTPContentEncodingField( var A : THTTTPContentEncodingField )
6862: Procedure ClearTHTTTPContentRangeField( var A : THTTTPContentRangeField )
6863: Procedure ClearTHTTPSSetCookieField( var A : THTTPSSetCookieField )
6864: Procedure ClearTHTTTPCommonHeaders( var A : THTTTPCommonHeaders )
6865: //Procedure ClearTHTTTPFixedHeaders( var A : THTTTPFixedHeaders )
6866: Procedure ClearTHTTPCustomHeaders( var A : THTTPCustomHeaders )
6867: Procedure ClearTHTTPCookieField( var A : THTTPCookieField )
6868: Procedure ClearTHTTTPMethod( var A : THTTTPMethod )
6869: Procedure ClearTHTTTPRequestStartLine( var A : THTTTPRequestStartLine )
6870: Procedure ClearTHTTTPRequestHeader( var A : THTTTPRequestHeader )
6871: Procedure ClearTHTTTPRequest( var A : THTTTPRequest )
6872: Procedure ClearTHTTTPResponseStartLine( var A : THTTTPResponseStartLine )
6873: Procedure ClearTHTTTPResponseHeader( var A : THTTTPResponseHeader )
6874: Procedure ClearTHTTTPResponse( var A : THTTTPResponse )
6875: THTTTPStringOption', '( hsoNone )
6876: THTTTPStringOptions', 'set of THTTTPStringOption
6877: FindClass('TOBJECT'), 'TAnsiStringBuilder
6878:
6879: Procedure BuildStrTHTTTPVersion(const A:THTTTPVersion;const B:TAnsiStringBuilder; P:THTTTPStringOptions;
6880: Procedure BuildStrTHTTTPContentLengthValue( const
6881: A:THTTTPContentLength;B:TAnsiStringBuilder;P:THTTTPStringOptions )
6882: Procedure BuildStrTHTTTPContentLength( const A : THTTTPContentLength;
6883: B:TAnsiStringBuilder;P:THTTTPStringOptions )
6884: Procedure BuildStrTHTTTPContentTypeValue( const A : THTTTPContentType;B:TAnsiStringBuilder;const
6885: P:THTTTPStringOptions )
6886: Procedure BuildStrTHTTTPContentType( const A : THTTTPContType;const B:TAnsiStringBuilder; const
6887: P:THTTTPStringOptions )
6888: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
6889: B : TAnsiStringBuilder; const P : THTTTPStringOptions )
6890: Procedure BuildStrTHTTTPDateFieldValue( const A : THTTTPDateField; const B : TAnsiStringBuilder; const P :
6891: THTTTPStringOptions )
6892: Procedure BuildStrTHTTTPDateField( const A : THTTTPDateField;const B:TAnsiStringBuilder;const
6893: P:THTTTPStringOptions );
6894: Procedure BuildStrTHTTTPTransferEncodingValue( const A : THTTTPTransferEncoding; const B :
6895: TAnsiStringBuilder; const P : THTTTPStringOptions )
6896: Procedure BuildStrTHTTTPTransferEncoding( const A : THTTTPTransferEncoding; const B : TAnsiStringBuilder;
6897: const P : THTTTPStringOptions )
6898: Procedure BuildStrTHTTTPContentEncoding( const A : THTTTPContentEncoding; const B : TAnsiStringBuilder;
6899: const P : THTTTPStringOptions )
6900: Procedure BuildStrTHTTTPContentEncodingField( const A:THTTTPContentEncodingField;const
6901: B:TAnsiStringBuilder;const P:THTTTPStringOptions )
6902: Procedure BuildStrTHTTTPProxyConnectionField( const A : THTTTPConnectionField; const B : TAnsiStringBuilder;
6903: const P : THTTTPStringOptions )
6904: Procedure BuildStrTHTTTPCommonHeaders( const A : THTTTPCommonHeaders; const B : TAnsiStringBuilder; const P
6905: : THTTTPStringOptions )
6906: Procedure BuildStrTHTTTPFixedHeaders( const A:THTTTPFixedHeaders;const B:TAnsiStrBuilder,const
6907: P:THTTTPStringOptions )
6908: Procedure BuildStrTHTTPCustomHeaders( const A : THTTPCustomHeaders; const B : TAnsiStringBuilder; const P
6909: : THTTTPStringOptions )
6910: Procedure BuildStrTHTTPSSetCookieFieldValue( const A : THTTPSSetCookieField; const B : TAnsiStringBuilder;
6911: const P : THTTTPStringOptions )
6912: Procedure BuildStrTHTTPCookieFieldValue( const A : THTTPCookieField; const B : TAnsiStringBuilder; const P
6913: : THTTTPStringOptions )
6914: Procedure BuildStrTHTTTPMethod( const A : THTTTPMethod; const B : TAnsiStringBuilder; const P :
6915: THTTTPStringOptions )

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6903: Procedure BuildStrHTTPRequestStartLine( const A : THTTPRequestStartLine; const B : TAnsiStringBuilder;
6904: const P : THTTPStringOptions)
6905: Procedure BuildStrHTTPRequestHeader(const A:THTTPRequestHeader;const B:TAnsiStringBuilder;const
6906: P:THTTPStringOptions);
6907: Procedure BuildStrHTTPRequest(const A : THTTPRequest; const B : TAnsiStringBuilder; const P :
6908: THTTPStringOptions)
6909: Procedure BuildStrHTTPResponseCookieFieldArray( const A : THTTPSetCookieFieldArray; const B :
6910: TAnsiStringBuilder; const P : THTTPStringOptions)
6911: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P
6912: THTTPStringOptions);
6913: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const
6914: P:THTTPStringOptions);
6915: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const
6916: P:THTTPStringOptions);
6917: Function HTTPContentTypeValueToStr( const A : THTTPContentType) : AnsiString
6918: SIRRegister_THTPParser(CL);
6919: FindClass ('TOBJECT'), 'THTTPContentDecoder'
6920: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder)
6921: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6922: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6923: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6924: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String)
6925: SIRRegister_THTPPContentDecoder(CL);
6926: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6927: FindClass ('TOBJECT'), 'THTTPContentReader
6928: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader)
6929: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const
6930: LogLevel:Int;
6931: SIRRegister_THTPPContentReader(CL);
6932: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6933: FindClass ('TOBJECT'), 'THTTPContentWriter
6934: THTTPContentWriterLogEvent', 'Procedure (const Sender : THTTPContentWriter;const LogMsg:AnsiString);
6935: SIRRegister_THTPPContentWriter(CL);
6936: Procedure SelfTestcHTTPUtils
6937:
6938: (*-----*)
6939: procedure SIRRegister_cTLSUtils(CL: TPPascalCompiler);
6940: begin
6941: 'TLSLibraryVersion', 'String '1.00
6942: 'TLSerror_None', 'LongInt'( 0 );
6943: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6944: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6945: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6946: 'TLSerror_InvalidState', 'LongInt'( 4 );
6947: 'TLSerror_DecodeError', 'LongInt'( 5 );
6948: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6949: Function TLSErrorMessage( const TLSError : Integer ) : String
6950: SIRRegister_ETLSError(CL);
6951: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6952: PTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6953: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion)
6954: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion)
6955: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion)
6956: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion)
6957: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6958: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6959: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6960: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6961: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6962: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6963: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6964: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6965: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6966: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6967: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6968: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion ) : String
6969: Function TLSProtocolVersionName( const A : TTLSProtocolVersion ) : String
6970: PTLSRandom', '^TTLSRandom // will not work
6971: Procedure InitTLSRandom( var Random : TTLSRandom )
6972: Function TLSRandomToStr( const Random : TTLSRandom ) : AnsiString
6973: 'TLSSessionIDMaxLen', 'LongInt'( 32 );
6974: Procedure InitTLSSessionID( var SessionID : TTLSSessionID; const A : AnsiString )
6975: Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TTLSSessionID):Int;
6976: Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TTLSSessionID):Int;
6977: TTLSignatureAndHashAlgorithm', 'record Hash : TTLSShashAlgorithm'
6978: +' ; Signature : TTLSSignatureAlgorithm; end
6979: // TTLSignatureAndHashAlgorithm', '^TTLSSignatureAndHashAlgorithm +'// will not work
6980: TTLSignatureAndHashAlgorithmArray', 'array of TTLSSignatureAndHashAlgorithm
6981: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_
6982: +' DSS, tlskeadHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )

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6983: TTLSMACAlgorithm', '( tlsmaNone, tlsmaNULL, tlsmaHMAC_MD5, tlsma'
6984: +'HMAC_SHA1, tlsmaHMAC_SHA256, tlsmaHMAC_SHA384, tlsmaHMAC_SHA512 )'
6985: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : Integer;
6986: +'integer; Supported : Boolean; end'
6987: PTLSMacAlgorithmInfo', '^TTLSSMacAlgorithmInfo // will not work
6988: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );
6989: TTLSPRFAlgorithm', '( tlspaSHA256 )
6990: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6991: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6992: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6993: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6994: Function tlsp1OPRF( const Secret, ALabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6995: Function tlsp12PRF_SHA256( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6996: Function tlsp12PRF_SHA512( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6997: Function TLSPRF( const ProtoVersion:TTLSSProtocolVersion;const Secret,ALabel,Seed:AString;const
Size:Int):AString;
6998: Function tlsp10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
Size:Integer):AnsiString
6999: Function tlsp12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
7000: Function tlsp12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
7001: Function TLSKeyBlock(const ProtocolVersion:TTLSSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer ) : AnsiString
7002: Function tlsp10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) : AnsiString;
7003: Function tlsp12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
7004: Function tlsp12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
7005: Function TLSMasterSecret( const ProtocolVersion: TTLSSProtocolVersion;const PreMasterSecret,ClientRandom,
ServerRandom:AnsiString ) : AnsiString
7006: 'TTLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr
7007: +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
7008: +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end'
7009: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys )
7010: Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys)
7011: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE', 'LongInt'( 16384 - 1 );
7012: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE', 'LongInt'( 16384 + 1024 );
7013: Procedure SelfTestcTLSUtils
7014: end;
7015:
7016: (*-----*)
7017: procedure SIRegister_Reversi(CL: TPSPPascalCompiler);
7018: begin
7019:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
7020: // pBoard', '^tBoard // will not work
7021: Function rCalculateData( cc : byte; cx, cy : integer ) : sPosData
7022: Function rCheckMove( color : byte; cx, cy : integer ) : integer
7023: //Function rDoStep( data : pBoard ) : word
7024: Function winExecAndWait( const sAppPath : string; wVisible : word ) : boolean
7025: end;
7026:
7027: procedure SIRegister_IWDBCommon(CL: TPSPPascalCompiler);
7028: begin
7029:   Function InEditMode( ADataSet : TDataSet ) : Boolean
7030:   Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
7031:   Function CheckDataSource1(ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
7032:   Function GetFieldText( AField : TField ) : String
7033: end;
7034:
7035: procedure SIRegister_SortGrid(CL: TPSPPascalCompiler);
7036: begin
7037:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
7038:   TMyPrintRange', '( prAll, prSelected )
7039:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
7040:   + 'ded, ssDateTime, ssTime, ssCustom )
7041:   TSortDirection', '( sdAscending, sdDescending )
7042:   TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
7043:   TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer'
7044:   + 'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
7045:   TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
7046:   TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
7047:   SIRegister_TSortOptions(CL);
7048:   SIRegister_TPrintOptions(CL);
7049:   TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
7050:   SIRegister_TSortedList(CL);
7051:   TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
7052:   TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
7053:   TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
7054:   TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
7055:   + 'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
7056:   SIRegister_TFontSetting(CL);
7057:   SIRegister_TFontList(CL);
7058:   AddTypes(TFormatDrawCellEvent)', 'Procedure ( Sender : TObject; Col, Row :
7059:   + integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
7060:   TSetFilterEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
7061:   TSearchEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
7062:   TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)

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7063: TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
7064: TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
7065: TEEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
7066: TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer
7067: +'r; var SortStyle : TSortStyle)
7068: TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow :
7069: +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
7070: SIRegister_TSGrid(CL);
7071: Function ExtendedCompare( const Str1, Str2 : String) : Integer
7072: Function NormalCompare( const Str1, Str2 : String) : Integer
7073: Function DateTimeCompare( const Str1, Str2 : String) : Integer
7074: Function NumericCompare( const Str1, Str2 : String) : Integer
7075: Function TimeCompare( const Str1, Str2 : String) : Integer
7076: //Function Compare( Item1, Item2 : Pointer) : Integer
7077: end;
7078:
7079: ***** procedure Register_IB(CL: TPPascalCompiler);
7080: Procedure IBAlloc( var P, OldSize, NewSize : Integer)
7081: Procedure IBEError( ErrMess : TIBClientError; const Args : array of const)
7082: Procedure IBD DataBaseError
7083: Function StatusVector : PISC_STATUS
7084: Function StatusVectorArray : PStatusVector
7085: Function CheckStatusVector( ErrorCode : array of ISC_STATUS) : Boolean
7086: Function StatusVectorAsText : string
7087: Procedure SetIB DataBaseErrorMessages( Value : TIB DataBaseErrorMessages)
7088: Function GetIB DataBaseErrorMessages : TIB DataBaseErrorMessages
7089:
7090:
7091: //*****unit uPSI_BoldUtils;*****
7092: Function CharCount( c : char; const s : string) : integer
7093: Function BoldNamesEqual( const name1, name2 : string) : Boolean
7094: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7095: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7096: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string) : string
7097: Function BoldTrim( const S : string) : string
7098: Function BoldIsPrefix( const S, Prefix : string) : Boolean
7099: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
7100: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7101: Function BoldAnsiEqual( const S1, S2 : string) : Boolean
7102: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer) : Boolean
7103: Function BoldCaseIndependentPos( const Substr, S : string) : Integer
7104: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7105: Function CapitalisedToSpaced( Capitalised : String) : String
7106: Function SpacedToCapitalised( Spaced : String) : String
7107: Function BooleanToString( BoolValue : Boolean) : String
7108: Function StringToBoolean( StrValue : String) : Boolean
7109: Function GetUpperLimitForMultiplicity( const Multiplicity : String) : Integer
7110: Function GetLowerLimitForMultiplicity( const Multiplicity : String) : Integer
7111: Function StringListToVarArray( List : TStringList) : variant
7112: Function IsLocalMachine( const Machinename : WideString) : Boolean
7113: Function GetComputerNameStr : string
7114: Function TimeStampComp( const Time1, Time2 : TTimeStamp) : Integer
7115: Function BoldStrToDateFmt( const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7116: Function BoldDateToStrFmt( const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7117: Function BoldParseFormattedDateList( const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7118: Function BoldParseFormattedDate(const value:String;const formats:array of string; var
Date:TDateTime):Boolean;
7119: Procedure EnsureTrailing( var Str : String; ch : char)
7120: Function BoldDirectoryExists( const Name : string) : Boolean
7121: Function BoldForceDirectories( Dir : string) : Boolean
7122: Function BoldRootRegistryKey : string
7123: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7124: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7125: Function LogicalAnd( A, B : Integer) : Boolean
7126: record TByHandleFileInformation dwFileAttributes : DWORD;
7127: +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7128: +' : TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSize'
7129: +'eLow : DWORD; nNumberOfLinks : DWORD; nfileIndexHigh : DWORD; nfileIndexLow : DWORD; end
7130: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7131: Function IsFirstInstance : Boolean
7132: Procedure ActivateFirst( AString : PChar)
7133: Procedure ActivateFirstCommandLine
7134: function MakeAckPkt( const BlockNumber: Word): string;
7135: procedure SendError( UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string;
7136: procedure SendError( UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7137: procedure SendError( UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7138: procedure SendError( UDPClient: TIdUDPClient; E: Exception); overload;
7139: function IdStrToWord(const Value: String): Word;
7140: function IdWordToStr(const Value: Word): WordStr;
7141: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet) : Boolean
7142: Function CPUFeatures : TCPUIFeatures
7143:
7144: procedure SIRegister_xrtl_util_CPUUtils(CL: TPPascalCompiler);
7145: begin
7146: AddTypeS('TXRTLBitIndex', 'Integer
7147: Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7148: Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7149: Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7150: Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal

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7151: Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex ) : Cardinal
7152: Function XRTLSwapHiLo16( X : Word ) : Word
7153: Function XRTLSwapHiLo32( X : Cardinal ) : Cardinal
7154: Function XRTLSwapHiLo64( X : Int64 ) : Int64
7155: Function XRTLROL32( A, S : Cardinal ) : Cardinal
7156: Function XRTLROL32( A, S : Cardinal ) : Cardinal
7157: Function XRTLROL16( A : Word; S : Cardinal ) : Word
7158: Function XRTLROL16( A : Word; S : Cardinal ) : Word
7159: Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7160: Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7161: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer )
7162: //Procedure XRTLIncBlock( P : PByteArray; Len : integer )
7163: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer )
7164: Function XRTLPopulation( A : Cardinal ) : Cardinal
7165: end;
7166:
7167: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7168: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7169: Function XRTLURINormalize( const AURI : WideString ) : WideString
7170: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,VPassword : WideString)
7171: Function XRTLExtractLongPathName(APath: string): string;
7172:
7173: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7174: begin
7175:   AddTypes('Int8', 'ShortInt'
7176:   AddTypes('Int16', 'SmallInt'
7177:   AddTypes('Int32', 'LongInt'
7178:   AddTypes('UInt8', 'Byte'
7179:   AddTypes('UInt16', 'Word'
7180:   AddTypes('UInt32', 'LongWord'
7181:   AddTypes('UInt64', 'Int64'
7182:   AddTypes('Word8', 'UInt8'
7183:   AddTypes('Word16', 'UInt16'
7184:   AddTypes('Word32', 'UInt32'
7185:   AddTypes('Word64', 'UInt64'
7186:   AddTypes('LargeInt', 'Int64'
7187:   AddTypeS('NativeInt', 'Integer'
7188:   AddTypeS('NativeUInt', 'Cardinal
7189:   Const('BitsPerByte','LongInt'( 8 );
7190:   Const('BitsPerWord','LongInt'( 16 );
7191:   Const('BitsPerLongWord','LongInt'( 32 );
7192: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7193: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7194: Function MinI( const A, B : Integer ) : Integer
7195: Function MaxI( const A, B : Integer ) : Integer
7196: Function MinC( const A, B : Cardinal ) : Cardinal
7197: Function MaxC( const A, B : Cardinal ) : Cardinal
7198: Function SumClipI( const A, I : Integer ) : Integer
7199: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7200: Function InByteRange( const A : Int64 ) : Boolean
7201: Function InWordRange( const A : Int64 ) : Boolean
7202: Function InLongWordRange( const A : Int64 ) : Boolean
7203: Function InShortIntRange( const A : Int64 ) : Boolean
7204: Function InSmallIntRange( const A : Int64 ) : Boolean
7205: Function InLongIntRange( const A : Int64 ) : Boolean
7206: AddTypesS('Bool8', 'ByteBool'
7207: AddTypesS('Bool16', 'WordBool
7208: AddTypesS('Bool32', 'LongBool
7209: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7210: AddTypeS('TCompareResultSet', 'set of TCompareResult
7211: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7212: Const('MinSingle','Single').setExtended( 1.5E-45 );
7213: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7214: Const('MinDouble','Double').setExtended( 5.0E-324 );
7215: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7216: Const('MinExtended','Extended').setExtended(3.4E-4932);
7217: Const('MaxExtended','Extended').setExtended(1.1E+4932);
7218: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );
7219: Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807 );
7220: Function MinF( const A, B : Float ) : Float
7221: Function MaxF( const A, B : Float ) : Float
7222: Function ClipF( const Value : Float; const Low, High : Float ) : Float
7223: Function InSingleRange( const A : Float ) : Boolean
7224: Function InDoubleRange( const A : Float ) : Boolean
7225: Function InCurrencyRange( const A : Float ) : Boolean;
7226: Function InCurrencyRange1( const A : Int64 ) : Boolean;
7227: Function FloatExponentBase2( const A : Extended; var Exponent : Integer ) : Boolean
7228: Function FloatExponentBase10( const A : Extended; var Exponent : Integer ) : Boolean
7229: Function FloatIsInfinity( const A : Extended ) : Boolean
7230: Function FloatIsNaN( const A : Extended ) : Boolean
7231: Const('SingleCompareDelta','Extended').setExtended( 1.0E-34 );
7232: Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280 );
7233: Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400 );
7234: Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34 );
7235: Function FloatZero( const A : Float; const CompareDelta : Float ) : Boolean
7236: Function FloatOne( const A : Float; const CompareDelta : Float ) : Boolean
7237: Function FloatsEqual( const A, B : Float; const CompareDelta : Float ) : Boolean
7238: Function FloatsCompare( const A, B : Float; const CompareDelta : Float ) : TCompareResult

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7239: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5);
7240: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13);
7241: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17);
7242: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10);
7243: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double) : Boolean
7244: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double): TCompareResult
7245: Function cClearBit( const Value, BitIndex : LongWord) : LongWord
7246: Function cSetBit( const Value, BitIndex : LongWord) : LongWord
7247: Function cIsBitSet( const Value, BitIndex : LongWord) : Boolean
7248: Function cToggleBit( const Value, BitIndex : LongWord) : LongWord
7249: Function cIsHighBitSet( const Value : LongWord) : Boolean
7250: Function SetBitScanForward( const Value : LongWord) : Integer;
7251: Function SetBitScanForward1( const Value : LongWord) : Integer;
7252: Function SetBitScanReverse( const Value : LongWord) : Integer;
7253: Function SetBitScanReverse1( const Value : LongWord) : Integer;
7254: Function ClearBitScanForward( const Value : LongWord) : Integer;
7255: Function ClearBitScanForward1( const Value : LongWord) : Integer;
7256: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7257: Function ClearBitScanReverse1( const Value : LongWord) : Integer;
7258: Function cReverseBits( const Value : LongWord) : LongWord;
7259: Function cReverseBits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7260: Function cSwapEndian( const Value : LongWord) : LongWord
7261: Function cTwosComplement( const Value : LongWord) : LongWord
7262: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word
7263: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord
7264: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word
7265: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord
7266: Function cBitCount( const Value : LongWord) : LongWord
7267: Function cIsPowerOfTwo( const Value : LongWord) : Boolean
7268: Function LowBitMask( const HighBitIndex : LongWord) : LongWord
7269: Function HighBitMask( const LowBitIndex : LongWord) : LongWord
7270: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord
7271: Function SetBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7272: Function ClearBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7273: Function ToggleBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7274: Function IsBitRangeSet( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7275: Function IsBitRangeClear( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : Boolean
7276: // AddTypeS('CharSet', 'set of AnsiChar'
7277: AddTypeS('CharSet', 'set of Char'           //!!!
7278: AddTypeS('AnsiCharSet', 'TCharSet'
7279: AddTypeS('ByteSet', 'set of Byte'
7280: AddTypeS('AnsiChar', 'Char'
7281: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7282: Function AsByteSet( const C : array of Byte) : ByteSet
7283: Procedure ComplementChar( var C : CharSet; const Ch : Char)
7284: Procedure ClearCharSet( var C : CharSet)
7285: Procedure FillCharSet( var C : CharSet)
7286: procedure FillCharSearchRec; // with 0
7287: Procedure ComplementCharSet( var C : CharSet)
7288: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7289: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet)
7290: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet)
7291: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet)
7292: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7293: Function IsSubSet( const A, B : CharSet) : Boolean
7294: Function IsEqual( const A, B : CharSet) : Boolean
7295: Function IsEmpty( const C : CharSet) : Boolean
7296: Function IsComplete( const C : CharSet) : Boolean
7297: Function cCharCount( const C : CharSet) : Integer
7298: Procedure ConvertCaseInsensitive( var C : CharSet)
7299: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet
7300: Function IntRangeLength( const Low, High : Integer) : Int64
7301: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean
7302: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean
7303: Function IntRangeHasElement( const Low, High, Element : Integer) : Boolean
7304: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer) : Boolean
7305: Function IntRangeIncludeElementRange(var Low,High:Integer;const LowElement,HighElement:Integer):Boolean
7306: Function CardRangeLength( const Low, High : Cardinal) : Int64
7307: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7308: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7309: Function CardRangeHasElement( const Low, High, Element : Cardinal) : Boolean
7310: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal) : Boolean
7311: Function CardRangeIncludeElementRange(var Low,High:Card;const LowElement,HighElement:Card):Boolean;
7312: AddTypeS('UnicodeChar', 'WideChar'
7313: Function Compare( const I1, I2 : Boolean) : TCompareResult;
7314: Function CompareI( const I1, I2 : Integer) : TCompareResult;
7315: Function Compare2( const I1, I2 : Int64) : TCompareResult;
7316: Function Compare3( const I1, I2 : Extended) : TCompareResult;
7317: Function CompareA( const I1, I2 : AnsiString) : TCompareResult
7318: Function CompareW( const I1, I2 : WideString) : TCompareResult
7319: Function cSgn( const A : LongInt) : Integer;
7320: Function cSgn1( const A : Int64) : Integer;
7321: Function cSgn2( const A : Extended) : Integer;
7322: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )'
7323: Function AnsiCharToInt( const A : AnsiChar) : Integer
7324: Function WideCharToInt( const A : WideChar) : Integer
7325: Function CharToInt( const A : Char) : Integer
7326: Function IntToAnsiChar( const A : Integer) : AnsiChar
7327: Function IntToWideChar( const A : Integer) : WideChar

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7328: Function IntToChar( const A : Integer ) : Char
7329: Function IsHexAnsiChar( const Ch : AnsiChar ) : Boolean
7330: Function IsHexWideChar( const Ch : WideChar ) : Boolean
7331: Function IsHexChar( const Ch : Char ) : Boolean
7332: Function HexAnsiCharToInt( const A : AnsiChar ) : Integer
7333: Function HexWideCharToInt( const A : WideChar ) : Integer
7334: Function HexCharToInt( const A : Char ) : Integer
7335: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar
7336: Function IntToUpperHexWideChar( const A : Integer ) : WideChar
7337: Function IntToUpperHexChar( const A : Integer ) : Char
7338: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar
7339: Function IntToLowerHexWideChar( const A : Integer ) : WideChar
7340: Function IntToLowerHexChar( const A : Integer ) : Char
7341: Function IntToStringA( const A : Int64 ) : AnsiString
7342: Function IntToStringW( const A : Int64 ) : WideString
7343: Function IntToString( const A : Int64 ) : String
7344: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7345: Function UIntToStringW( const A : NativeUInt ) : WideString
7346: Function UIntToString( const A : NativeUInt ) : String
7347: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7348: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7349: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7350: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7351: Function LongWordToHexA( const A : LongWord; const Digits : Integer; const UpperCase : Boolean ) : AnsiString
7352: Function LongWordToHexW( const A : LongWord; const Digits : Integer; const UpperCase : Boolean ) : WideString
7353: Function LongWordToHex( const A : LongWord; const Digits : Integer; const UpperCase : Boolean ) : String
7354: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7355: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7356: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7357: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7358: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7359: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7360: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7361: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7362: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7363: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7364: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7365: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7366: Function StringToInt64A( const S : AnsiString ) : Int64
7367: Function StringToInt64W( const S : WideString ) : Int64
7368: Function StringToInt64( const S : String ) : Int64
7369: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7370: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7371: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7372: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7373: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7374: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7375: Function StringToIntA( const S : AnsiString ) : Integer
7376: Function StringToIntW( const S : WideString ) : Integer
7377: Function StringToInt( const S : String ) : Integer
7378: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7379: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7380: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7381: Function StringToLongWordA( const S : AnsiString ) : LongWord
7382: Function StringToLongWordW( const S : WideString ) : LongWord
7383: Function StringToLongWord( const S : String ) : LongWord
7384: Function HexToIntA( const S : AnsiString ) : NativeUInt
7385: Function HexToIntW( const S : WideString ) : NativeUInt
7386: Function HexToInt( const S : String ) : NativeUInt
7387: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7388: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7389: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7390: Function HexToLongWordA( const S : AnsiString ) : LongWord
7391: Function HexToLongWordW( const S : WideString ) : LongWord
7392: Function HexToLongWord( const S : String ) : LongWord
7393: Function TryOctToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7394: Function TryOctToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7395: Function TryOctToLongWord( const S : String; out A : LongWord ) : Boolean
7396: Function OctToLongWordA( const S : AnsiString ) : LongWord
7397: Function OctToLongWordW( const S : WideString ) : LongWord
7398: Function OctToLongWord( const S : String ) : LongWord
7399: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7400: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7401: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7402: Function BinToLongWordA( const S : AnsiString ) : LongWord
7403: Function BinToLongWordW( const S : WideString ) : LongWord
7404: Function BinToLongWord( const S : String ) : LongWord
7405: Function FloatToStringA( const A : Extended ) : AnsiString
7406: Function FloatToStringW( const A : Extended ) : WideString
7407: Function FloatToString( const A : Extended ) : String
7408: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7409: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7410: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7411: Function StringToFloatA( const A : AnsiString ) : Extended
7412: Function StringToFloatW( const A : WideString ) : Extended
7413: Function StringToFloat( const A : String ) : Extended
7414: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7415: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7416: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended

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7417: Function EncodeBase64( const S:Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const
7418: PadChar: AnsiChar ) : AnsiString
7419: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7420: unit uPSI_cFundamentUtils;
7420: Const('b64_MIMEBase64','Str').String('ABCDEF GH IJKLM NOPQR STUVWXYZ Z abcdef gh ijk lmn opqr stuvwxyz 0123456789+/');
7421: Const('b64_UUEncode','String').String('!'#$%&'')*+,.-./0123456789:;<>?@ABCDEF GH IJKLM NOPQR STUVWXYZ[\]^_';
7422: Const('b64_XXEncode','String').String('+ -0123456789ABCDEF GH IJKLM NOPQR STUVWXYZ Z abcdef gh ijk lmn opqr stuvwxyz ');
7423: Const('CCHARSET','String' b64_XXEncode);
7424: Const('CHEXSET','String' 0123456789ABCDEF
7425: Const('HEXDIGITS','String' 0123456789ABCDEF
7426: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7427: Const('DIGISET','String' 0123456789
7428: Const('LETTERSET','String' ABCDEF GH IJKLM NOPQR STUVWXYZ'
7429: Const('DIGISET2','TCharset').SetSet('0123456789'
7430: Const('LETTERSET2','TCharset').SetSet('ABCDEF GH IJKLM NOPQR STUVWXYZ')
7431: Const('HEXSET2','TCharset').SetSet('0123456789ABCDEF');
7432: Const('NUMBERSET','TCharset').SetSet('0123456789');
7433: Const('NUMBERS','String' 0123456789');
7434: Const('LETTERS','String' ABCDEF GH IJKLM NOPQR STUVWXYZ');
7435: Function CharSetToStr( const C : CharSet ) : AnsiString
7436: Function StrToCharSet( const S : AnsiString ) : CharSet
7437: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7438: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7439: Function UUDecode( const S : AnsiString ) : AnsiString
7440: Function XXDecode( const S : AnsiString ) : AnsiString
7441: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7442: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7443: Function InterfaceToStrW( const I : IInterface ) : WideString
7444: Function InterfaceToStr( const I : IInterface ) : String
7445: Function ObjectClassName( const O : TObject ) : String
7446: Function ClassClassName( const C : TClass ) : String
7447: Function ObjectToStr( const O : TObject ) : String
7448: Function ObjectToString( const O : TObject ) : String
7449: Function CharSetToStr( const C : CharSet ) : AnsiString
7450: Function StrToCharSet( const S : AnsiString ) : CharSet
7451: Function HashStrA(const S : AnsiString; const Index : Integer; const Count: Integer;const
7451: AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7452: Function HashStrW(const S:WideString;const Index:Integer;const Count:Integer;const
7452: AsciiCaseSensitive:Boolean; const Slots:LongWord) : LongWord
7453: Function HashStr(const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive
7453: : Boolean; const Slots : LongWord) : LongWord
7454: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7455: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7456: Const('Bytes1KB','LongInt'( 1024));
7457: SIRegister_IInterface(CL);
7458: Procedure SelfTestCFundamentUtils
7459:
7460: Function CreateSchedule : IJclSchedule
7461: Function NullStamp : TTimeStamp
7462: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7463: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7464: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7465:
7466: procedure SIRegister_uwinplot(CL: TPSPascalCompiler);
7467: begin
7468: AddTypeS('TFunc', 'function(X : Float) : Float;
7469: Function InitGraphics( Width, Height : Integer ) : Boolean
7470: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
7471: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
7472: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
7473: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float )
7474: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float )
7475: Procedure SetGraphTitle( Title : String )
7476: Procedure SetOxTitle( Title : String )
7477: Procedure SetOyTitle( Title : String )
7478: Function GetGraphTitle : String
7479: Function GetOxTitle : String
7480: Function GetOyTitle : String
7481: Procedure PlotOxAxis( Canvas : TCanvas )
7482: Procedure PlotOyAxis( Canvas : TCanvas )
7483: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid )
7484: Procedure WriteGraphTitle( Canvas : TCanvas )
7485: Function SetMaxCurv( NCurv : Byte ) : Boolean
7486: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor )
7487: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor )
7488: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String )
7489: Procedure SetCurvStep( CurvIndex, Step : Integer )
7490: Function GetMaxCurv : Byte
7491: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor )
7492: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor );
7493: Function GetCurvLegend( CurvIndex : Integer ) : String
7494: Function GetCurvStep( CurvIndex : Integer ) : Integer
7495: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer )
7496: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer )
7497: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7498: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7499: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean )
7500: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix )
7501: Function Xpixel( X : Float ) : Integer

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7502: Function Ypixel( Y : Float ) : Integer
7503: Function Xuser( X : Integer ) : Float
7504: Function Yuser( Y : Integer ) : Float
7505: end;
7506:
7507: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector )
7508: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector )
7509: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector )
7510: Procedure FFT_Integer_Cleanup
7511: Procedure CalcFrequency(NumSamples, FrequencyIndex: Integer; InArray: TCompVector; var FT : Complex)
7512: //unit uPSI_JclStreams;
7513: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin ) : Int64
7514: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer ) : Int64
7515: Function CompareStreams( A, B : TStream; BufferSize : Integer ) : Boolean
7516: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer ) : Boolean
7517:
7518: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7519: begin
7520:   FindClass('TOBJECT'), 'EInvalidDest
7521:   FindClass('TOBJECT'), 'EFCantMove
7522:   Procedure fmxCopyFile( const FileName, DestName : string )
7523:   Procedure fmxMoveFile( const FileName, DestName : string )
7524:   Function fmxGetFileSize( const FileName : string ) : LongInt
7525:   Function fmxFileDateTime( const FileName : string ) : TDateTime
7526:   Function fmxHasAttr( const FileName : string; Attr : Word ) : Boolean
7527:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle;
7528: end;
7529:
7530: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7531: begin
7532:   SIRegister_IFindFileIterator(CL);
7533:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7534: end;
7535:
7536: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7537: begin
7538:   Function SkipWhite( cp : PChar ) : PChar
7539:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string ) : PChar
7540:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string ) : PChar
7541:   Function ReadIdent( cp : PChar; var ident : string ) : PChar
7542: end;
7543:
7544: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7545: begin
7546:   SIRegister_TStringHashMapTraits(CL);
7547:   Function CaseSensitiveTraits : TStringHashMapTraits
7548:   Function CaseInsensitiveTraits : TStringHashMapTraits
7549:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod
7550:     +'e; Right : PHashNode; end
7551:   //PHashArray', '^THashArray // will not work
7552:   SIRegister_TStringHashMap(CL);
7553:   THashValue', 'Cardinal
7554:   Function StrHash( const s : string ) : THashValue
7555:   Function TextHash( const s : string ) : THashValue
7556:   Function DataHash( var AValue, ASize : Cardinal ) : THashValue
7557:   Function Iterate_FreeObjects( AUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7558:   Function Iterate_Dispose( AUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7559:   Function Iterate_FreeMem( AUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7560:   SIRegister_TCaseSensitiveTraits(CL);
7561:   SIRegister_TCaseInsensitiveTraits(CL);
7562:
7563:
7564: //*****unit uPSI_umath;
7565: Function uExp( X : Float ) : Float
7566: Function uExp2( X : Float ) : Float
7567: Function uExp10( X : Float ) : Float
7568: Function uLog( X : Float ) : Float
7569: Function uLog2( X : Float ) : Float
7570: Function uLog10( X : Float ) : Float
7571: Function uLogA( X, A : Float ) : Float
7572: Function uIntPower( X : Float; N : Integer ) : Float
7573: Function uPower( X, Y : Float ) : Float
7574: Function SgnGamma( X : Float ) : Integer
7575: Function Stirling( X : Float ) : Float
7576: Function StirLog( X : Float ) : Float
7577: Function Gamma( X : Float ) : Float
7578: Function LnGamma( X : Float ) : Float
7579: Function DiGamma( X : Float ) : Float
7580: Function TriGamma( X : Float ) : Float
7581: Function IGamma( X : Float ) : Float
7582: Function JGamma( X : Float ) : Float
7583: Function InvGamma( X : Float ) : Float
7584: Function Erf( X : Float ) : Float
7585: Function Erfc( X : Float ) : Float
7586: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7587: { Correlation coefficient between samples X and Y }
7588: function DBeta(A, B, X : Float) : Float;
7589: { Density of Beta distribution with parameters A and B }
7590: Function LambertW( X : Float; UBranch, Offset : Boolean ) : Float

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7591: Function Beta(X, Y : Float) : Float
7592: Function Binomial( N, K : Integer ) : Float
7593: Function PBinom( N : Integer; P : Float; K : Integer ) : Float
7594: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer )
7595: Procedure LU_Decom( A : TMatrix; Lb, Ub : Integer )
7596: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector )
7597: Function DNorm( X : Float ) : Float
7598:
7599: function DGamma(A, B, X : Float) : Float;
7600: { Density of Gamma distribution with parameters A and B }
7601: function DKhi2(Nu : Integer; X : Float) : Float;
7602: { Density of Khi-2 distribution with Nu d.o.f. }
7603: function DStudent(Nu : Integer; X : Float) : Float;
7604: { Density of Student distribution with Nu d.o.f. }
7605: function DSnedecor(Nul, Nu2 : Integer; X : Float) : Float;
7606: { Density of Fisher-Snedecor distribution with Nul and Nu2 d.o.f. }
7607: function IBeta(A, B, X : Float) : Float;
7608: { Incomplete Beta function }
7609: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7610:
7611: procedure SIRegister_unlfit(CL: TPSPPascalCompiler);
7612: begin
7613:   Procedure SetOptAlgo( Algo : TOptAlgo )
7614:   procedure SetOptAlgo(Algo : TOptAlgo);
7615:   { -----
7616:     Sets the optimization algorithm according to Algo, which must be
7617:     NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ
7618:
7619:   Function GetOptAlgo : TOptAlgo
7620:   Procedure SetMaxParam( N : Byte )
7621:   Function GetMaxParam : Byte
7622:   Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float )
7623:   Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float )
7624:   Function NullParam( B : TVector; Lb, Ub : Integer ) : Boolean
7625:   Procedure NLPfit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix )
7626:   Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix )
7627:   Procedure SetMCFile( FileName : String )
7628:   Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7629:   Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
    LastPar:Integer;V:TMatrix);
7630: end;
7631:
7632: (*-----*)
7633: procedure SIRegister_usimplex(CL: TPSPPascalCompiler);
7634: begin
7635:   Procedure SaveSimplex( FileName : string )
7636:   Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer/Tol:Float; var F_min:Float );
7637: end;
7638: (*-----*)
7639: procedure SIRegister uregtest(CL: TPSPPascalCompiler);
7640: begin
7641:   Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7642:   Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7643: end;
7644:
7645: procedure SIRegister_ustrings(CL: TPSPPascalCompiler);
7646: begin
7647:   Function LTrim( S : String ) : String
7648:   Function RTrim( S : String ) : String
7649:   Function uTrim( S : String ) : String
7650:   Function StrChar( N : Byte; C : Char ) : String
7651:   Function RFill( S : String; L : Byte ) : String
7652:   Function LFill( S : String; L : Byte ) : String
7653:   Function CFill( S : String; L : Byte ) : String
7654:   Function Replace( S : String; C1, C2 : Char ) : String
7655:   Function Extract( S : String; var Index : Byte; Delim : Char ) : String
7656:   Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte )
7657:   Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean )
7658:   Function FloatStr( X : Float ) : String
7659:   Function IntStr( N : LongInt ) : String
7660:   Function uCompStr( Z : Complex ) : String
7661: end;
7662:
7663: procedure SIRegister_uhyper(CL: TPSPPascalCompiler);
7664: begin
7665:   Function uSinh( X : Float ) : Float
7666:   Function uCosh( X : Float ) : Float
7667:   Function uTanh( X : Float ) : Float
7668:   Function uArcSinh( X : Float ) : Float
7669:   Function uArcCosh( X : Float ) : Float
7670:   Function ArcTanh( X : Float ) : Float
7671:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float )
7672: end;
7673:
7674: procedure SIRegister_urandom(CL: TPSPPascalCompiler);
7675: begin
7676: type RNG_Type =

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7677:   (RNG_MWC,      { Multiply-With-Carry }
7678:    RNG_MT,       { Mersenne Twister }
7679:    RNG_UVAG);   { Universal Virtual Array Generator }
7680: Procedure SetRNG( RNG : RNG_Type)
7681: Procedure InitGen( Seed : RNG_IntType)
7682: Procedure SRand( Seed : RNG_IntType)
7683: Function IRanGen : RNG_IntType
7684: Function IRanGen31 : RNG_IntType
7685: Function RanGen1 : Float
7686: Function RanGen2 : Float
7687: Function RanGen3 : Float
7688: Function RanGen53 : Float
7689: end;
7690:
7691: // Optimization by Simulated Annealing
7692: procedure SIRegister_usmann(CL: TPSPascalCompiler);
7693: begin
7694:  Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7695:  Procedure SA_CreateLogFile( FileName : String)
7696:  Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7697: end;
7698:
7699: procedure SIRegister_uranuvag(CL: TPSPascalCompiler);
7700: begin
7701:  Procedure InitUVAGbyString( KeyPhrase : string)
7702:  Procedure InitUVAG( Seed : RNG_IntType)
7703:  Function IRanUVAG : RNG_IntType
7704: end;
7705:
7706: procedure SIRegister_ugenalg(CL: TPSPascalCompiler);
7707: begin
7708:  Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7709:  Procedure GA_CreateLogFile( LogFileName : String)
7710:  Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7711: end;
7712:
7713: TVector', 'array of Float
7714: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7715: begin
7716:  Procedure QSort( X : TVector; Lb, Ub : Integer)
7717:  Procedure DQSort( X : TVector; Lb, Ub : Integer)
7718: end;
7719:
7720: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7721: begin
7722:  Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7723:  Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7724: end;
7725:
7726: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7727: begin
7728:  FT_Result', 'Integer
7729:  //TDWordptr', '^DWord // will not work
7730:  TFT_Program_Data', 'record Signature1 : DWor'
7731:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PCha'
7732:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7733:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7734:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7735:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7736:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7737:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7738:   Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By'
7739:   te; IFAIsFastSer : Byte; AIsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B'
7740:   yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7741:   Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; Inv'
7742:   ertTxD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7743:   ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 '
7744:   : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsvCP : B'
7745:   yte; end
7746: end;
7747:
7748:
7749: //***** PaintFX*****
7750: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7751: begin
7752:  //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7753:  with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7754:   Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7755:   Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7756:   Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7757:   Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7758:   Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7759:   Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7760:   Procedure Turn( Src, Dst : TBitmap)
7761:   Procedure TurnRight( Src, Dst : TBitmap)
7762:   Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7763:   Procedure TexturizeFile( const Dst : TBitmap; Amount : Integer)
7764:   Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7765:   Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)

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7766: Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7767: Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7768: Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7769: Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7770: Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7771: Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7772: Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7773: Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7774: Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7775: Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7776: Procedure Emboss( var Bmp : TBitmap)
7777: Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7778: Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7779: Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7780: Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7781: Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7782: Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7783: Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7784: Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7785: Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7786: Procedure QuartoOpaque( Src, Dst : TBitmap)
7787: Procedure SemiOpaque( Src, Dst : TBitmap)
7788: Procedure ShadowDownLeft( const Dst : TBitmap)
7789: Procedure ShadowDownRight( const Dst : TBitmap)
7790: Procedure ShadowUpLeft( const Dst : TBitmap)
7791: Procedure ShadowUpRight( const Dst : TBitmap)
7792: Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7793: Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7794: Procedure FlipRight( const Dst : TBitmap)
7795: Procedure FlipDown( const Dst : TBitmap)
7796: Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7797: Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7798: Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7799: Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7800: Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7801: Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7802: Procedure SmoothResize( var Src, Dst : TBitmap)
7803: Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7804: Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7805: Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7806: Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7807: Procedure GrayScale( const Dst : TBitmap)
7808: Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7809: Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7810: Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7811: Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7812: Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7813: Procedure Spray( const Dst : TBitmap; Amount : Integer)
7814: Procedure AntiAlias( const Dst : TBitmap)
7815: Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7816: Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7817: Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7818: Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7819: Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7820: Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7821: Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7822: Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7823: Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7824: Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7825: Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7826: Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7827: Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7828: Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7829: Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7830: Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7831: Procedure Invert( Src : TBitmap)
7832: Procedure MirrorRight( Src : TBitmap)
7833: Procedure MirrorDown( Src : TBitmap)
7834: end;
7835: end;
7836:
7837: (*-----*)
7838: procedure SIRegister_JvPaintFX(CL: TPSPascalCompiler);
7839: begin
7840:   AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7841:   +'ye, lbrotate, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7842:   +'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7843:   SIRegister_TJvPaintFX(CL);
7844:   Function SplineFilter( Value : Single) : Single
7845:   Function BellFilter( Value : Single) : Single
7846:   Function TriangleFilter( Value : Single) : Single
7847:   Function BoxFilter( Value : Single) : Single
7848:   Function HermiteFilter( Value : Single) : Single
7849:   Function Lanczos3Filter( Value : Single) : Single
7850:   Function MitchellFilter( Value : Single) : Single
7851: end;
7852:
7853:
7854: (*-----*)

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7855: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7856: begin
7857:   'TeeMsg_DefaultFunctionName','String 'TeeFunction
7858:   TeeMsg_DefaultSeriesName','String 'Series
7859:   TeeMsg_DefaultToolName','String 'ChartTool
7860:   ChartComponentPalette','String 'TeeChart
7861:   TeeMaxLegendColumns',LongInt'( 2 );
7862:   TeeDefaultLegendSymbolWidth',LongInt'( 20 );
7863:   TeeTitleFootDistance,LongInt( 5 );
7864:   SIRegister_TCustomChartWall(CL);
7865:   SIRegister_TChartWall(CL);
7866:   SIRegister_TChartLegendGradient(CL);
7867:   TLegendStyle ', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7868:   TLegendAlignment ', '( laLeft, laRight, laTop, laBottom )
7869:   FindClass('TOBJECT'),'LegendException
7870:   TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7871:     +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7872:   FindClass('TOBJECT'),'TCustomChartLegend
7873:   TLegendSymbolSize ', '( lcsPercent, lcsPixels )
7874:   TLegendSymbolPosition', '( spLeft, spRight )
7875:   TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7876:   TSymbolCalcHeight', 'Function : Integer
7877:   SIRegister_TLegendsymbol(CL);
7878:   SIRegister_TTeeCustomShapePosition(CL);
7879:   TCheckBoxesStyle ', '( cbsCheck, cbsRadio )
7880:   SIRegister_TLegendTitle(CL);
7881:   SIRegister_TLegendItem(CL);
7882:   SIRegister_TLegendItems(CL);
7883:   TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7884:   FindClass('TOBJECT'),'TCustomChart
7885:   SIRegister_TCustomChartLegend(CL);
7886:   SIRegister_TChartLegend(CL);
7887:   SIRegister_TChartTitle(CL);
7888:   SIRegister_TChartFootTitle(CL);
7889:   TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7890:     +'eButton; Shift : TShiftState; X, Y : Integer)
7891:   TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7892:     +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7893:   TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7894:     +TChartSeries; ValueIndex : Integer; Button : TMouseButton; Shift:TShiftState;X,Y:Integer)
7895:   TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7896:     +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7897:   TOnGetLegendPos', 'Procedure ( Sender : TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7898:   TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7899:   TAxissavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7900:     +'toMax : Boolean; Min : Double; Max : Double; end
7901:   TA11AxisSavedScales', 'array of TAxissavedScales
7902:   SIRegister_TChartBackWall(CL);
7903:   SIRegister_TChartRightWall(CL);
7904:   SIRegister_TChartBottomWall(CL);
7905:   SIRegister_TChartLeftWall(CL);
7906:   SIRegister_TChartWalls(CL);
7907:   TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7908:   SIRegister_TCustomChart(CL);
7909:   SIRegister_TChart(CL);
7910:   SIRegister_TTeeSeriesTypes(CL);
7911:   SIRegister_TTeeToolTypes(CL);
7912:   SIRegister_TTeeDragObject(CL);
7913:   SIRegister_TColorPalettes(CL);
7914:   Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
    AGalleryPage:PString;ANumGallerySeries:Integer);
7915:   Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADescription : PString);
7916:   Procedure RegisterTeeFunction(AFuncClass:TTeeFunctionClass;ADescription,
    AGalleryPage:PString;ANumGallerySeries: Int;
7917:   Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADescription : PString);
7918:   Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass; AFunctionClass:TTeeFunctionClass;
    ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7919:   Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7920:   Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7921:   Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7922:   Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass) : TTeeFunction
7923:   Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
    AFunctionClass : TTeeFunctionClass) : TChartSeries
7924:   Function CloneChartSeries( ASeries : TChartSeries) : TChartSeries;
7925:   Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel) : TChartSeries;
7926:   Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7927:   Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7928:   Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass) : TChartSeries
7929:   Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7930:   Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7931:   Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7932:   Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7933:   Function GetGallerySeriesName( ASeries : TChartSeries) : String
7934:   Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
    R:TRect;ReferenceChart:TCustomChart);
7935:   SIRegister_TChartTheme(CL);
7936:   //TChartThemeClass', 'class of TChartTheme
7937:   //TCanvasClass', 'class of TCanvas3D
7938:   Function SeriesNameOrIndex( ASeries : TCustomChartSeries) : String

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7939: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7940: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean )
7941: Procedure ShowMessageUser( const S : String )
7942: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7943: Function HasLabels( ASeries : TChartSeries ) : Boolean
7944: Function HasColors( ASeries : TChartSeries ) : Boolean
7945: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7946: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer )
7947: end;
7948:
7949:
7950: procedure SIRegister_TeeProcs(CL: TPSPascalCompiler);
7951: begin
7952: // 'TeeFormBorderStyle',' bsNone );
7953: SIRegister_TMetafile(CL);
7954: 'TeeDefVerticalMargin',' LongInt'( 4 );
7955: 'TeeDefHorizMargin',' LongInt'( 3 );
7956: 'crTeeHand',' LongInt'( TCursor( 2020 ) );
7957: 'TeeMsg_TeeHand',' String 'crTeeHand
7958: 'TeeNormalPrintDetail',' LongInt'( 0 );
7959: 'TeeHighPrintDetail',' LongInt'( - 100 );
7960: 'TeeDefault_PrintMargin',' LongInt'( 15 );
7961: 'MaxDefaultColors',' LongInt'( 19 );
7962: 'TeeTabDelimiter',' Char '#9;
7963: TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7964: + 'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7965: + 'inute, dtFiveMinutes, dtSixMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7966: + 'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7967: + 'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7968: + 'ourMonths, dtSixMonths, dtOneYear, dtNone )'
7969: SIRegister_TCustomPanelNoCaption(CL);
7970: FindClass('TOBJECT'), 'TCustomTeePanel
7971: SIRegister_TZoomPanning(CL);
7972: SIRegister_TTeeEvent(CL);
7973: //SIRegister_TTeeEventListeners(CL);
7974: TTeeMouseEventKind', '( meDown, meUp, meMove )
7975: SIRegister_TTeeMouseEvent(CL);
7976: SIRegister_TCustomTeePanel(CL);
7977: //TChartGradient', 'TTeeGradient
7978: //TChartGradientClass', 'class of TChartGradient
7979: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7980: SIRegister_TTeeZoomPen(CL);
7981: SIRegister_TTeeZoomBrush(CL);
7982: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7983: SIRegister_TTeeZoom(CL);
7984: FindClass('TOBJECT'), 'TCustomTeePanelExtended
7985: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7986: SIRegister_TBackImage(CL);
7987: SIRegister_TCustomTeePanelExtended(CL);
7988: //TChartBrushClass', 'class of TChartBrush
7989: SIRegister_TTeeCustomShapeBrushPen(CL);
7990: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7991: TTextFormat', '( ttfNormal, ttfHtml )
7992: SIRegister_TTeeCustomShape(CL);
7993: SIRegister_TTeeShape(CL);
7994: SIRegister_TTeeExportData(CL);
7995: Function TeeStr( const Num : Integer ) : String
7996: Function DateTimeDefaultFormat( const AStep : Double ) : String
7997: Function TEEDaysInMonth( Year, Month : Word ) : Word
7998: Function FindDateTimestep( const StepValue : Double ) : TDateTimeStep
7999: Function NextDateTimeStep( const AStep : Double ) : Double
8000: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
8001: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
8002: Function PointInLine2( const P,FromPoint,ToPoint:TPoint;const TolerancePixels:Integer):Boolean;
8003: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer ):Boolean;
8004: Function PointInLineTolerance(const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer):Boolean;
8005: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean;
8006: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
8007: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
8008: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;
8009: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
8010: Function PointInEllipse1( const P : TPoint;Left,Top,Right, Bottom : Integer ) : Boolean;
8011: Function DelphiToLocalFormat( const Format : String ) : String
8012: Function LocalToDelphiFormat( const Format : String ) : String
8013: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
8014: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
8015: Procedure TeeDateTimeIncrement(IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
  AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
8016: TTeeSortCompare', 'Function ( a, b : Integer ) : Integer
8017: TTeeSortSwap', 'Procedure ( a, b : Integer )
8018: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TeeSortCompare;SwapFunc:TeeSortSwap);
8019: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string
8020: Function TeeExtractField( St : String; Index : Integer ) : String;
8021: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
8022: Function TeeNumFields( St : String ) : Integer;
8023: Function TeeNumFields1( const St, Separator : String ) : Integer;
8024: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap )
8025: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String )
8026: // TColorArray', 'array of TColor

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8027: Function GetDefaultColor( const Index : Integer ) : TColor
8028: Procedure SetDefaultColorPalette;
8029: Procedure SetDefaultColorPalette1( const Palette : array of TColor );
8030: 'TeeCheckBoxSize','LongInt'( 11 );
8031: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
8032: Function TEEStrToFloatDef( const S : string; const Default : Extended ) : Extended
8033: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean
8034: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean
8035: Procedure TeeTranslateControl( AControl : TControl );
8036: Procedure TeeTranslateControl1( AControl : TControl; const ExcludeChilds : array of TControl );
8037: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String
8038: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints )
8039: Function TeeAntiAlias( Panel : TCustTeePanel; ChartRect : Boolean ) : TBitmap
8040: //Procedure DrawBevel(Canvas:TTeeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
8041: //Function ScreenRatio( ACanvas : TCanvas3D ) : Double
8042: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean ) : Boolean
8043: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean )
8044: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer ) : Integer
8045: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer )
8046: Function TeeReadStringOption( const AKey, DefaultValue : String ) : String
8047: Procedure TeeSaveStringOption( const AKey, Value : String )
8048: Function TeeDefaultXMLEncoding : String
8049: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean )
8050: 'TeeWindowHandle', 'Integer
8051: Procedure TeeGoToURL( Handle : TeeWindowHandle; const URL : String )
8052: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String )
8053: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String ) : TSize
8054: end;
8055:
8056:
8057: using mXBDEUtils
8058: ****
8059: Procedure SetAlias( aAlias, aDirectory : String )
8060: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
8061: Function GetFileVersionNumber( const FileName : String ) : TVersionNo
8062: Procedure SetBDE( aPath, aNode, aValue : String )
8063: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
8064: Function GetSystemDirectory( lpBuffer : string; uSize : UINT ) : UINT
8065: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT ) : UINT
8066: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string ) : DWORD
8067: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string ) : DWORD
8068: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
8069:
8070:
8071: procedure SIRegister_cDateTime(CL: TPSPascalCompiler);
8072: begin
8073: AddClassN(FindClass('TOBJECT'), 'EDateTime'
8074: Function DatePart( const D : TDateTime ) : Integer
8075: Function TimePart( const D : TDateTime ) : Double
8076: Function Century( const D : TDateTime ) : Word
8077: Function Year( const D : TDateTime ) : Word
8078: Function Month( const D : TDateTime ) : Word
8079: Function Day( const D : TDateTime ) : Word
8080: Function Hour( const D : TDateTime ) : Word
8081: Function Minute( const D : TDateTime ) : Word
8082: Function Second( const D : TDateTime ) : Word
8083: Function Millisecond( const D : TDateTime ) : Word
8084: ('OneDay','Extended').setExtended( 1.0 );
8085: ('OneHour','Extended').SetExtended( OneDay / 24 );
8086: ('OneMinute','Extended').SetExtended( OneHour / 60 );
8087: ('OneSecond','Extended').SetExtended( OneMinute / 60 );
8088: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000 );
8089: ('OneWeek','Extended').SetExtended( OneDay * 7 );
8090: ('HoursPerDay','Extended').SetExtended( 24 );
8091: ('MinutesPerHour','Extended').SetExtended( 60 );
8092: ('SecondsPerMinute','Extended').SetExtended( 60 );
8093: Procedure SetYear( var D : TDateTime; const Year : Word )
8094: Procedure SetMonth( var D : TDateTime; const Month : Word )
8095: Procedure SetDay( var D : TDateTime; const Day : Word )
8096: Procedure SetHour( var D : TDateTime; const Hour : Word )
8097: Procedure SetMinute( var D : TDateTime; const Minute : Word )
8098: Procedure SetSecond( var D : TDateTime; const Second : Word )
8099: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word )
8100: Function IsEqual( const D1, D2 : TDateTime ) : Boolean;
8101: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word ):Boolean;
8102: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word ):Boolean;
8103: Function IsAM( const D : TDateTime ) : Boolean
8104: Function IsPM( const D : TDateTime ) : Boolean
8105: Function IsMidnight( const D : TDateTime ) : Boolean
8106: Function IsNoon( const D : TDateTime ) : Boolean
8107: Function IsSunday( const D : TDateTime ) : Boolean
8108: Function IsMonday( const D : TDateTime ) : Boolean
8109: Function IsTuesday( const D : TDateTime ) : Boolean
8110: Function IsWednesday( const D : TDateTime ) : Boolean
8111: Function IsThursday( const D : TDateTime ) : Boolean
8112: Function IsFriday( const D : TDateTime ) : Boolean
8113: Function IsSaturday( const D : TDateTime ) : Boolean
8114: Function IsWeekend( const D : TDateTime ) : Boolean

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8115: Function Noon( const D : TDateTime ) : TDateTime
8116: Function Midnight( const D : TDateTime ) : TDateTime
8117: Function FirstDayOfMonth( const D : TDateTime ) : TDateTime
8118: Function LastDayOfMonth( const D : TDateTime ) : TDateTime
8119: Function NextWorkday( const D : TDateTime ) : TDateTime
8120: Function PreviousWorkday( const D : TDateTime ) : TDateTime
8121: Function FirstDayOfYear( const D : TDateTime ) : TDateTime
8122: Function LastDayOfYear( const D : TDateTime ) : TDateTime
8123: Function EasterSunday( const Year : Word ) : TDateTime
8124: Function GoodFriday( const Year : Word ) : TDateTime
8125: Function AddMilliseconds( const D : TDateTime; const N : Int64 ) : TDateTime
8126: Function AddSeconds( const D : TDateTime; const N : Int64 ) : TDateTime
8127: Function AddMinutes( const D : TDateTime; const N : Integer ) : TDateTime
8128: Function AddHours( const D : TDateTime; const N : Integer ) : TDateTime
8129: Function AddDays( const D : TDateTime; const N : Integer ) : TDateTime
8130: Function AddWeeks( const D : TDateTime; const N : Integer ) : TDateTime
8131: Function AddMonths( const D : TDateTime; const N : Integer ) : TDateTime
8132: Function AddYears( const D : TDateTime; const N : Integer ) : TDateTime
8133: Function DayOfYear( const Ye, Mo, Da : Word ) : Integer
8134: Function DayOfYear( const D : TDateTime ) : Integer
8135: Function DaysInMonth( const Ye, Mo : Word ) : Integer
8136: Function DaysInMonth( const D : TDateTime ) : Integer
8137: Function DaysInYear( const Ye : Word ) : Integer
8138: Function DaysInYearDate( const D : TDateTime ) : Integer
8139: Function WeekNumber( const D : TDateTime ) : Integer
8140: Function ISOFirstWeekOfYear( const Ye : Word ) : TDateTime
8141: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word )
8142: Function DiffMilliseconds( const D1, D2 : TDateTime ) : Int64
8143: Function DiffSeconds( const D1, D2 : TDateTime ) : Integer
8144: Function DiffMinutes( const D1, D2 : TDateTime ) : Integer
8145: Function DiffHours( const D1, D2 : TDateTime ) : Integer
8146: Function DiffDays( const D1, D2 : TDateTime ) : Integer
8147: Function DiffWeeks( const D1, D2 : TDateTime ) : Integer
8148: Function DiffMonths( const D1, D2 : TDateTime ) : Integer
8149: Function DiffYears( const D1, D2 : TDateTime ) : Integer
8150: Function GMTBias : Integer
8151: Function GMTTimeToLocalTime( const D : TDateTime ) : TDateTime
8152: Function LocalTimeToGMTTime( const D : TDateTime ) : TDateTime
8153: Function NowAsGMTTime : TDateTime
8154: Function DateTimeToISO8601String( const D : TDateTime ) : AnsiString
8155: Function ISO8601StringToTime( const D : AnsiString ) : TDateTime
8156: Function ISO8601StringAsDateTime( const D : AnsiString ) : TDateTime
8157: Function DateTimeToANSI( const D : TDateTime ) : Integer
8158: Function ANSIToDateTime( const Julian : Integer ) : TDateTime
8159: Function DateTimeToISOInteger( const D : TDateTime ) : Integer
8160: Function DateTimeToISOString( const D : TDateTime ) : AnsiString
8161: Function ISOIntegerToDateTime( const ISOInteger : Integer ) : TDateTime
8162: Function TwoDigitRadix2000YearToYear( const Y : Integer ) : Integer
8163: Function DateTimeAsElapsedTime( const D : TDateTime; const IncludeMilliseconds : Boolean ) : AnsiString
8164: Function UnixTimeToDateTime( const UnixTime : LongWord ) : TDateTime
8165: Function DateToUnixTime( const D : TDateTime ) : LongWord
8166: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8167: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8168: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8169: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8170: Function EnglishShortMonthStrA( const Month : Integer ) : AnsiString
8171: Function EnglishShortMonthStrU( const Month : Integer ) : UnicodeString
8172: Function EnglishLongMonthStrA( const Month : Integer ) : AnsiString
8173: Function EnglishLongMonthStrU( const Month : Integer ) : UnicodeString
8174: Function EnglishShortDayOfWeekA( const S : AnsiString ) : Integer
8175: Function EnglishShortDayOfWeekU( const S : UnicodeString ) : Integer
8176: Function EnglishLongDayOfWeekA( const S : AnsiString ) : Integer
8177: Function EnglishLongDayOfWeekU( const S : UnicodeString ) : Integer
8178: Function EnglishShortMonthA( const S : AnsiString ) : Integer
8179: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8180: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8181: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8182: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8183: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8184: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8185: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8186: Function RFCMonthA( const S : AnsiString ) : Word
8187: Function RFCMonthU( const S : UnicodeString ) : Word
8188: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds : Boolean ) : AnsiString
8189: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds : Boolean ) : UnicodeString
8190: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek : Boolean ) : AnsiString;
8191: Function GMTDateTimeToRFC1123DateTimeU( const D : TDateTime; const IncludeDayOfWeek : Boolean ) : UnicodeString;
8192: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8193: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8194: Function NowAsRFCDateTimeA : AnsiString
8195: Function NowAsRFCDateTimeU : UnicodeString
8196: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8197: Function RFCDateTimeToDateTime( const S : AnsiString ) : TDateTime
8198: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8199: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8200: Procedure SelfTest
8201: end;
8202: //*****CFileUtils
8203: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean

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8204: Function PathHasDriveLetter( const Path : String ) : Boolean
8205: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8206: Function PathIsDriveLetter( const Path : String ) : Boolean
8207: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8208: Function PathIsDriveRoot( const Path : String ) : Boolean
8209: Function PathIsRootA( const Path : AnsiString ) : Boolean
8210: Function PathIsRoot( const Path : String ) : Boolean
8211: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8212: Function PathIsUNCPath( const Path : String ) : Boolean
8213: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8214: Function PathIsAbsolute( const Path : String ) : Boolean
8215: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8216: Function PathIsDirectory( const Path : String ) : Boolean
8217: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8218: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8219: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8220: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8221: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8222: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8223: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8224: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8225: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8226: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8227: Function PathExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8228: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8229: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8230: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8231: Procedure PathSplitLeftElementA( const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char );
8232: Procedure PathSplitLeftElement( const Path:String; var LeftElement,RightPath: String;const PathSep:Char );
8233: Procedure DecodeFilePathA( const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char );
8234: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8235: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8236: Function FileNameValid( const FileName : String ) : String
8237: Function FilePathA( const FileName,Path:AnsiString;const basePath:AnsiStr;const PathSep:Char):AnsiString;
8238: Function FilePath( const FileName, Path: String;const basePath : String;const PathSep : Char ) : String
8239: Function DirectoryExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char ):AnsiString
8240: Function DirectoryExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8241: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8242: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8243: Procedure CCopyFile( const FileName, DestName : String )
8244: Procedure CMoveFile( const FileName, DestName : String )
8245: Function CDeleteFiles( const FileMask : String ) : Boolean
8246: Function FileSeekEx( const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8247: Procedure FileCloseEx( const FileHandle : TFileHandle )
8248: Function FileExistsA( const FileName : AnsiString ) : Boolean
8249: Function CFileExists( const FileName : String ) : Boolean
8250: Function CFileSize( const FileName : String ) : Int64
8251: Function FileGetDateTime( const FileName : String ) : TDateTime
8252: Function FileGetDateTime2( const FileName : String ) : TDateTime
8253: Function FileIsReadOnly( const FileName : String ) : Boolean
8254: Procedure FileDeleteEx( const FileName : String )
8255: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8256: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8257: Function DirectoryEntryExists( const Name : String ) : Boolean
8258: Function DirectoryEntrySize( const Name : String ) : Int64
8259: Function CDirectoryExists( const DirectoryName : String ) : Boolean
8260: Function DirectoryGetDateTime( const DirectoryName : String ) : TDateTime
8261: Procedure CDirectoryCreate( const DirectoryName : String )
8262: Function GetFirstFileNameMatching( const FileMask : String ) : String
8263: Function DirEntryGetAttr( const FileName : AnsiString ) : Integer
8264: Function DirEntryIsDirectory( const FileName : AnsiString ) : Boolean
8265: Function FileHasAttr( const FileName : String; const Attr : Word ) : Boolean
8266: AddTypeS('TLogicalDriveType','( DriveRemovable, DriveFixed, DriveRemote,
8267: +DriveCDRom, DriveRamDisk, DriveTypeUnknown )')
8268: Function DriveIsValid( const Drive : Char ) : Boolean
8269: Function DriveGetType( const Path : AnsiString ) : TLogicalDriveType
8270: Function DriveFreeSpace( const Path : AnsiString ) : Int64
8271:
8272: procedure SIRegister_cTimers(CL: TPPascalCompiler);
8273: begin
8274: AddClassN(FindClass('TOBJECT'), 'ETimers
8275: Const ('TickFrequency', 'LongInt'( 1000);Function GetTick : LongWord
8276: Function TickDelta( const D1, D2 : LongWord ) : Integer
8277: Function TickDeltaW( const D1, D2 : LongWord ) : LongWord
8278: AddTypeS('THPTimer', 'Int64
8279: Procedure StartTimer( var Timer : THPTimer )
8280: Procedure StopTimer( var Timer : THPTimer )
8281: Procedure ResumeTimer( var StoppedTimer : THPTimer )
8282: Procedure InitStoppedTimer( var Timer : THPTimer )
8283: Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer )
8284: Function MillisecondsElapsed( const Timer : THPTimer; const TimerRunning : Boolean ) : Integer
8285: Function MicrosecondsElapsed( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
8286: Procedure WaitMicroseconds( const MicroSeconds : Integer )
8287: Function GetHighPrecisionFrequency : Int64
8288: Function GetHighPrecisionTimerOverhead : Int64
8289: Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64)
8290: Procedure SelfTestCTimer
8291: end;

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8292:
8293: procedure SIRегистер_cRandom(CL: TPSPPascalCompiler);
8294: begin
8295:   Function RandomSeed : LongWord;
8296:   Procedure AddEntropy( const Value : LongWord);
8297:   Function RandomUniform : LongWord;
8298:   Function RandomUniforml( const N : Integer) : Integer;
8299:   Function RandomBoolean : Boolean;
8300:   Function RandomByte : Byte;
8301:   Function RandomByteNonZero : Byte;
8302:   Function RandomWord : Word;
8303:   Function RandomInt64 : Int64;
8304:   Function RandomInt64l( const N : Int64) : Int64;
8305:   Function RandomHex( const Digits : Integer) : String;
8306:   Function RandomFloat : Extended;
8307:   Function RandomAlphaStr( const Length : Integer) : AnsiString;
8308:   Function RandomPseudoWord( const Length : Integer) : AnsiString;
8309:   Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8310:   Function mwcRandomLongWord : LongWord;
8311:   Function urnRandomLongWord : LongWord;
8312:   Function moaRandomFloat : Extended;
8313:   Function mwcRandomFloat : Extended;
8314:   Function RandomNormalF : Extended;
8315:   Procedure SelfTestCRandom;
8316: end;
8317;
8318: procedure SIRегистер_SynEditMiscProcs(CL: TPSPPascalCompiler);
8319: begin
8320:   // PIntArray', '^TIntArray // will not work
8321:   Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8322:   TConvertTabsProcEx, function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8323:   Function synMax( x, y : integer ) : integer;
8324:   Function synMin( x, y : integer ) : integer;
8325:   Function synMinMax( x, mi, ma : integer ) : integer;
8326:   Procedure synSwapInt( var l, r : integer );
8327:   Function synMaxPoint( const P1, P2 : TPoint ) : TPoint;
8328:   Function synMinPoint( const P1, P2 : TPoint ) : TPoint;
8329:   //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray;
8330:   Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect );
8331:   Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc;
8332:   Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString;
8333:   Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx;
8334:   Function synConvertTabsEx( const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8335:   Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer;
8336:   Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string ) : integer;
8337:   Function synCaretPos2CharIndex( Position, TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8338:   Function synStrScanForCharInSet( const Line:string;Start:integer;AChars:TSynIdentChars ):integer;
8339:   Function synStrScanForCharInSet( const Line:string;Start:integer;AChars:TSynIdentChars ):integer;
8340:   TStringType', '( stNone, stHalfNumAlpha, stHalfSymbol, stHalfKat'
8341:   + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )';
8342:   ('C3_NONSPACING','LongInt'( 1 );
8343:   ('C3_DIACRITIC','LongInt'( 2 );
8344:   ('C3_VOWELMARK','LongInt'( 4 );
8345:   ('C3_SYMBOL','LongInt'( 8 );
8346:   ('C3_KATAKANA','LongWord( $0010 );
8347:   ('C3_HIRAGANA','LongWord( $0020 );
8348:   ('C3_HALFWIDTH','LongWord( $0040 );
8349:   ('C3_FULLWIDTH','LongWord( $0080 );
8350:   ('C3_IDEOGRAPH','LongWord( $0100 );
8351:   ('C3_KASHIDA','LongWord( $0200 );
8352:   ('C3_LEXICAL','LongWord( $0400 );
8353:   ('C3_ALPHA','LongWord( $8000 );
8354:   ('C3_NOTAPPLICABLE','LongInt'( 0 );
8355:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer;
8356:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer;
8357:   Function synIsStringType( Value : Word ) : TStringType;
8358:   Function synGetEOL( Line : PChar ) : PChar;
8359:   Function synEncodeString( s : string ) : string;
8360:   Function synDecodeString( s : string ) : string;
8361:   Procedure synFreeAndNil( var Obj: TObject );
8362:   Procedure synAssert( Expr : Boolean );
8363:   Function synLastDelimiter( const Delimiters, S : string ) : Integer;
8364:   TReplaceFlag', '( rfReplaceAll, rfIgnoreCase );
8365:   TReplaceFlags', 'set of TReplaceFlag );
8366:   Function synStringReplace( const S, OldPattern, NewPattern : string; Flags: TReplaceFlags ) : string;
8367:   Function synGetValue( RGBValue : TColor ) : byte;
8368:   Function synGetGValue( RGBValue : TColor ) : byte;
8369:   Function synGetBValue( RGBValue : TColor ) : byte;
8370:   Function synRGB( r, g, b : Byte ) : Cardinal;
8371:   // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHighlighter
8372:   // +'lighter; Attri:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8373:   //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8374:   HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer ) : Boolean;
8375:   Function synCalcFCS( const ABuf, ABufSize : Cardinal ) : Word;
8376:   Procedure synSynDrawGradient( const ACanvas:TCanvas; const AStartColor,
     AEndColor:TColor; ASteps:integer; const ARect : TRect; const AHorizontal : boolean );
8377: end;
8378: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD;

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8379: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8380: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8381:
8382: procedure SIRegister_synautil(CL: TPSPascalCompiler);
8383: begin
8384:   Function STimeZoneBias : integer
8385:   Function TimeZone : string
8386:   Function Rfc822DateTime( t : TDateTime ) : string
8387:   Function CDateTime( t : TDateTime ) : string
8388:   Function SimpleDateTime( t : TDateTime ) : string
8389:   Function AnsiCDatetime( t : TDateTime ) : string
8390:   Function GetMonthNumber( Value : string ) : integer
8391:   Function GetTimeFromStr( Value : string ) : TDateTime
8392:   Function GetDateMDYFromStr( Value : string ) : TDateTime
8393:   Function DecodeRfcDateTime( Value : string ) : TDateTime
8394:   Function GetUTCTime : TDateTime
8395:   Function SetUTCTime( Newdt : TDateTime ) : Boolean
8396:   Function SGetTick : LongWord
8397:   Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8398:   Function CodeInt( Value : Word ) : Ansistring
8399:   Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8400:   Function CodeLongInt( Value : LongInt ) : Ansistring
8401:   Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8402:   Function DumpStr( const Buffer : Ansistring ) : string
8403:   Function DumpExStr( const Buffer : Ansistring ) : string
8404:   Procedure Dump( const Buffer : AnsiString; DumpFile : string )
8405:   Procedure DumpEx( const Buffer : AnsiString; DumpFile : string )
8406:   Function TrimSPLeft( const S : string ) : string
8407:   Function TrimSPRight( const S : string ) : string
8408:   Function TrimSP( const S : string ) : string
8409:   Function SeparateLeft( const Value, Delimiter : string ) : string
8410:   Function SeparateRight( const Value, Delimiter : string ) : string
8411:   Function SGetParameter( const Value, Parameter : string ) : string
8412:   Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8413:   Procedure ParseParameters( Value : string; const Parameters : TStrings )
8414:   Function IndexByBegin( Value : string; const List : TStrings ) : integer
8415:   Function GetEmailAddr( const Value : string ) : string
8416:   Function GetEmailDesc( Value : string ) : string
8417:   Function CStrToHex( const Value : Ansistring ) : string
8418:   Function CIntToBin( Value : Integer; Digits : Byte ) : string
8419:   Function CBinToInt( const Value : string ) : Integer
8420:   Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8421:   Function CReplaceString( Value, Search, Replace : AnsiString ) : AnsiString
8422:   Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8423:   Function CRPos( const Sub, Value : String ) : Integer
8424:   Function FetchBin( var Value : string; const Delimiter : string ) : string
8425:   Function CFetch( var Value : string; const Delimiter : string ) : string
8426:   Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8427:   Function IsBinaryString( const Value : AnsiString ) : Boolean
8428:   Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString ) : integer
8429:   Procedure StringsTrim( const value : TStrings )
8430:   Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8431:   Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8432:   Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8433:   Function CCountOfChar( const Value : string; aChr : char ) : integer
8434:   Function UnquoteStr( const Value : string; Quote : Char ) : string
8435:   Function QuoteStr( const Value : string; Quote : Char ) : string
8436:   Procedure HeadersToList( const Value : TStrings )
8437:   Procedure ListToHeaders( const Value : TStrings )
8438:   Function SwapBytes( Value : integer ) : integer
8439:   Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8440:   Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8441:   Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8442:   Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar): AnsiString
8443:   Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8444:   Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8445: end;
8446:
8447: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8448: begin
8449:   ('CrcBufSize','LongInt'( 2048 );
8450:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8451:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8452:   Function Adler32OfFile( FileName : AnsiString ) : LongInt
8453:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8454:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8455:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8456:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8457:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8458:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8459:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8460:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8461:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8462:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8463:   Function Kermit16OfFile( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8464:   Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
8465: end;
8466:
8467: procedure SIRegister_ComObj(CL: TPSPascalCompiler);

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```

8468: begin
8469:   function CreateOleObject(const ClassName: String): IDispatch;
8470:   function GetActiveOleObject(const ClassName: String): IDispatch;
8471:   function ProgIDToClassID(const ProgID: string): TGUID;
8472:   function ClassIDToProgID(const ClassID: TGUID): string;
8473:   function CreateClassID: string;
8474:   function CreateGUIDString: string;
8475:   function CreateGUIDID: string;
8476:   procedure OleError(ErrorCode: longint)
8477:   procedure OleCheck(Result: HResult);
8478: end;
8479:
8480:   Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8481:   Function xGetActiveOleObject( const ClassName : string ) : Variant
8482:   //Function DllGetClassObject( const CLSID : TGUID; const IID : TIID; var Obj ) : HResult
8483:   Function DllCanUnloadNow : HResult
8484:   Function DllRegisterServer : HResult
8485:   Function DllUnregisterServer : HResult
8486:   Function VarFromInterface( Unknown : IUnknown ) : Variant
8487:   Function VarToInterface( const V : Variant ) : IDispatch
8488:   Function VarToAutoObject( const V : Variant ) : TAutoObject
8489:   //Procedure
8490:   DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8491:   //Procedure DispInvoke( Status : HResult; const ExcepInfo : TExcepInfo)
8492:   Procedure OleError( ErrorCode : HResult )
8493:   Procedure OleCheck( Result : HResult )
8494:   Function StringToClassID( const S : string ) : TGUID
8495:   Function ClassIDToString( const ClassID : TGUID ) : string
8496:   Function xProgIDToClassID( const ProgID : string ) : TGUID
8497:   Function xClassIDToProgID( const ClassID : TGUID ) : string
8498:   Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8499:   Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8500:   Function xGUIDToString( const ClassID : TGUID ) : string
8501:   Function xStringToGUID( const S : string ) : TGUID
8502:   Function xGetModuleName( Module : HMODULE ) : string
8503:   Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8504:   Function xUtf8Encode( const WS : WideString ) : UTF8String
8505:   Function xUtf8Decode( const S : UTF8String ) : WideString
8506:   Function xExcludeTrailingPathDelimiter( const S : string ) : string
8507:   Function xIncludeTrailingPathDelimiter( const S : string ) : string
8508:   Function XRTLHandleCOMException : HResult
8509:   Procedure XRTLCheckArgument( Flag : Boolean )
8510:   //Procedure XRTLCheckOutArgument( out Arg )
8511:   Procedure XRTLInterfaceConnect( const Source:IUnknown;const IID:TIID;const Sink:IUnknown;var Connection:Longint );
8512:   Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID;var Connection : Longint )
8513:   Function XRTLRegisterActiveObject( const Unk:IUnknown;ClassID:TGUID;Flags:DWORD;var RegisterCookie:Int ):HResult
8514:   Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer ) : HResult
8515:   //Function XRTLGetActiveObject( ClassID : TGUID; RIID : TIID; out Obj ) : HResult
8516:   Procedure XRTLEnumActiveObjects( Strings : TStrings )
8517:   function XRTLDefaultCategoryManager: IUnknown;
8518:   function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8519:   // ICatRegister helper functions
8520:   function XRTLCREATEComponentCategory(CatID: TGUID; CatDescription: WideString;
8521:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8522:                                         const CategoryManager: IUnknown = nil): HResult;
8523:   function XRTLRemoveComponentCategory(CatID: TGUID; CatDescription: WideString;
8524:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8525:                                         const CategoryManager: IUnknown = nil): HResult;
8526:   function XRTLRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
8527:                                         const CategoryManager: IUnknown = nil): HResult;
8528:   function XRTLUnRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
8529:                                         const CategoryManager: IUnknown = nil): HResult;
8530:   // ICatInformation helper functions
8531:   function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
8532:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8533:                                         const CategoryManager: IUnknown = nil): HResult;
8534:   function XRTLGetCategoryList(Strings: TStrings; LocaleID: TGUID = LOCALE_USER_DEFAULT;
8535:                                         const CategoryManager: IUnknown = nil): HResult;
8536:   function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
8537:                                         const CategoryManager: IUnknown = nil): HResult;
8538:   function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
8539:                                         const CategoryManager: IUnknown = nil): HResult;
8540:   function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ');
8541:   const ADelete: Boolean = True): WideString;
8542:   function XRTLRPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8543:   Function XRTLGetVariantAsString( const Value : Variant ) : string
8544:   Function XRTLDateToTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8545:   Function XRTLGetTimeZones : TXRTLTimeZones
8546:   Function XFileTimeToDate( FileTime : TFileTime ) : TDateTime
8547:   Function DateToFileTime( Date : TDateTime ) : TFileTime
8548:   Function GMTNow : TDateTime
8549:   Function GMTToLocalTime( GMT : TDateTime ) : TDateTime
8550:   Function LocalTimeToGMT( LocalTime : TDateTime ) : TDateTime
8551:   Procedure XRTLN NotImplemented
8552:   Procedure XRTLRaiseError( E : Exception )
8553:   Procedure XRTLRaise( E : Exception );

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8554: Procedure XRaise( E : Exception )';
8555: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string)
8556:
8557:
8558: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8559: begin
8560:   SIRegister_IXRTLValue(CL);
8561:   SIRegister_TXRTLValue(CL);
8562:   //AddTypeS('PXRTLValueArray', '^XRTLValueArray // will not work
8563:   AddTypes('XRTLValueArray', 'array of IXRTLValue
8564: Function XRTLValue( const AValue : Cardinal ) : IXRTLValue;
8565: Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal ) : Cardinal;
8566: Function XRTLGetAsCardinal( const IValue : IXRTLValue ) : Cardinal;
8567: Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal ) : Cardinal;
8568: Function XRTLValue1( const AValue : Integer ) : IXRTLValue;
8569: Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer ) : Integer;
8570: Function XRTLGetAsInteger( const IValue : IXRTLValue ) : Integer;
8571: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer;
8572: Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8573: Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8574: Function XRTLGetAsInt64( const IValue : IXRTLValue ) : Int64;
8575: Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64;
8576: Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8577: Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8578: Function XRTLGetAsSingle( const IValue : IXRTLValue ) : Single;
8579: Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single;
8580: Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8581: Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8582: Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double;
8583: Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double;
8584: Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8585: Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8586: Function XRTLGetAsExtended( const IValue : IXRTLValue ) : Extended;
8587: Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended;
8588: Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8589: Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8590: Function XRTLGetAsInterface( const IValue : IXRTLValue ) : IInterface;
8591: //Function XRTLGetAsInterface1( const IValue : IXRTLValue; out Obj ) : IInterface;
8592: Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8593: Function XRTLValue7( const AValue : WideString ) : IXRTLValue;
8594: Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8595: Function XRTLGetAsWideString( const IValue : IXRTLValue ) : WideString;
8596: Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString;
8597: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8598: Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8599: Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8600: Function XRTLGetAsObjectDef( const IValue:IXRTLValue;const DefValue:TObject;const
     ADetachOwnership:Boolean):TObject;
8601: //Function XRTLValue9( const AValue : _Pointer ) : IXRTLValue;
8602: //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : _Pointer ) : _Pointer;
8603: //Function XRTLGetAsPointer( const IValue : IXRTLValue ) : _Pointer
8604: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer ) : _Pointer
8605: Function XRTLValueV( const AValue : Variant ) : IXRTLValue;
8606: Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8607: Function XRTLGetAsVariant( const IValue : IXRTLValue ) : Variant;
8608: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant;
8609: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8610: Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8611: Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency;
8612: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency;
8613: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8614: Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8615: Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp;
8616: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp;
8617: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8618: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8619: Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass;
8620: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass;
8621: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8622: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8623: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID;
8624: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID;
8625: Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8626: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8627: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean;
8628: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean;
8629: end;
8630:
8631: //*****unit uPSI_GR32;*****
8632:
8633: Function Color32( WinColor : TColor ) : TColor32;
8634: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8635: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8636: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32;
8637: Function WinColor( Color32 : TColor32 ) : TColor;
8638: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32;
8639: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte );
8640: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte );
8641: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components;

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8642: Function RedComponent( Color32 : TColor32 ) : Integer
8643: Function GreenComponent( Color32 : TColor32 ) : Integer
8644: Function BlueComponent( Color32 : TColor32 ) : Integer
8645: Function AlphaComponent( Color32 : TColor32 ) : Integer
8646: Function Intensity( Color32 : TColor32 ) : Integer
8647: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32
8648: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8649: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8650: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;
8651: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8652: Function WinPalette( const P : TPalette32 ) : HPALETTE
8653: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8654: Function FloatPoint1( const P : TPoint ) : TFloatPoint;
8655: Function FloatPoint2( const FXP : TFixedPoint ) : TFloatPoint;
8656: Function FixedPoint( X, Y : Integer ) : TFixedPoint;
8657: Function FixedPoint1( X, Y : Single ) : TFixedPoint;
8658: Function FixedPoint2( const P : TPoint ) : TFixedPoint;
8659: Function FixedPoint3( const FP : TFloatPoint ) : TFixedPoint;
8660: AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )'
8661: Function MakeRect( const L, T, R, B : Integer ) : TRect;
8662: Function MakeRect1( const FR : TFloatRect; Rounding : TRectRounding ) : TRect;
8663: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding ) : TRect;
8664: Function GFixedRect( const L, T, R, B : TFixed ) : TRect;
8665: Function FixedRect1( const ARect : TRect ) : TRect;
8666: Function FixedRect2( const FR : TFloatRect ) : TRect;
8667: Function GFloatRect( const L, T, R, B : TFloat ) : TFloatRect;
8668: Function FloatRect1( const ARect : TRect ) : TFloatRect;
8669: Function FloatRect2( const FXR : TRect ) : TFloatRect;
8670: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect ) : Boolean;
8671: Function IntersectRect1( out Dst : TFloatRect; const FR1, FR2 : TFloatRect ) : Boolean;
8672: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
8673: Function UnionRect1( out Rect : TFloatRect; const R1, R2 : TFloatRect ) : Boolean;
8674: Function GEEqualRect( const R1, R2 : TRect ) : Boolean;
8675: Function EqualRect1( const R1, R2 : TFloatRect ) : Boolean;
8676: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer );
8677: Procedure InflateRect1( var FR : TFloatRect; Dx, Dy : TFloat );
8678: Procedure GOFFsetRect( var R : TRect; Dx, Dy : Integer );
8679: Procedure OffsetRect1( var FR : TFloatRect; Dx, Dy : TFloat );
8680: Function IsRectEmpty( const R : TRect ) : Boolean;
8681: Function IsRectEmpty1( const FR : TFloatRect ) : Boolean;
8682: Function GPtInRect( const R : TRect; const P : TPoint ) : Boolean;
8683: Function PtInRect1( const R : TFloatRect; const P : TPoint ) : Boolean;
8684: Function PtInRect2( const R : TRect; const P : TFloatPoint ) : Boolean;
8685: Function PtInRect3( const R : TFloatRect; const P : TFloatPoint ) : Boolean;
8686: Function EqualRectSize( const R1, R2 : TRect ) : Boolean;
8687: Function EqualRectSize1( const R1, R2 : TFloatRect ) : Boolean;
8688: Function MessageBeep( uType : UINT ) : BOOL
8689: Function ShowCursor( bShow : BOOL ) : Integer
8690: Function SetCursorPos( X, Y : Integer ) : BOOL
8691: Function SetCursor( hCursor : HICON ) : HCURSOR
8692: Function GetCursorPos( var lpPoint : TPoint ) : BOOL
8693: //Function ClipCursor( lpRect : PRect ) : BOOL
8694: Function GetClipCursor( var lpRect : TRect ) : BOOL
8695: Function GetCursor : HCURSOR
8696: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer ) : BOOL
8697: Function GetCaretBlinkTime : UINT
8698: Function SetCaretBlinkTime( uMSeconds : UINT ) : BOOL
8699: Function DestroyCaret : BOOL
8700: Function HideCaret( hWnd : HWND ) : BOOL
8701: Function ShowCaret( hWnd : HWND ) : BOOL
8702: Function SetCaretPos( X, Y : Integer ) : BOOL
8703: Function GetCaretPos( var lpPoint : TPoint ) : BOOL
8704: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8705: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8706: Function MapWindowPoints(hWndFrom,hWndTo:HWND; var lpPoints, cPoints : UINT) : Integer
8707: Function WindowFromPoint( Point : TPoint ) : HWND
8708: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint ) : HWND
8709:
8710:
8711: procedure SIRegister_GR32_Math(CL: TPPSPascalCompiler);
8712: begin
8713:   Function FixedFloor( A : TFixed ) : Integer
8714:   Function FixedCeil( A : TFixed ) : Integer
8715:   Function FixedMul( A, B : TFixed ) : TFixed
8716:   Function FixedDiv( A, B : TFixed ) : TFixed
8717:   Function OneOver( Value : TFixed ) : TFixed
8718:   Function FixedRound( A : TFixed ) : Integer
8719:   Function FixedSqr( Value : TFixed ) : TFixed
8720:   Function FixedSqrtLP( Value : TFixed ) : TFixed
8721:   Function FixedSqrtHP( Value : TFixed ) : TFixed
8722:   Function FixedCombine( W, X, Y : TFixed ) : TFixed
8723:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8724:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8725:   Function GRHypot( const X, Y : TFloat ) : TFloat;
8726:   Function Hypot1( const X, Y : Integer ) : Integer;
8727:   Function FastSqr( const Value : TFloat ) : TFloat
8728:   Function FastSqrBab1( const Value : TFloat ) : TFloat
8729:   Function FastSqrBab2( const Value : TFloat ) : TFloat
8730:   Function FastInvSqrt( const Value : Single ) : Single;

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8731: Function MulDiv( Multiplicand, Multiplier, Divisor : Integer) : Integer
8732: Function GRIsPowerOf2( Value : Integer) : Boolean
8733: Function PrevPowerOf2( Value : Integer) : Integer
8734: Function NextPowerOf2( Value : Integer) : Integer
8735: Function Average( A, B : Integer) : Integer
8736: Function GRSign( Value : Integer) : Integer
8737: Function FloatMod( x, y : Double) : Double
8738: end;
8739:
8740: procedure SIRегистer_GR32_LowLevel(CL: TPSPPascalCompiler);
8741: begin
8742:   Function Clamp( const Value : Integer) : Integer;
8743:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword)
8744:   Function StackAlloc( Size : Integer) : Pointer
8745:   Procedure StackFree( P : Pointer)
8746:   Procedure Swap( var A, B : Pointer);
8747:   Procedure Swap1( var A, B : Integer);
8748:   Procedure Swap2( var A, B : TFixed);
8749:   Procedure Swap3( var A, B : TColor32);
8750:   Procedure TestSwap( var A, B : Integer);
8751:   Procedure TestSwap1( var A, B : TFixed);
8752:   Function TestClip( var A, B : Integer; const Size : Integer) : Boolean;
8753:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer) : Boolean;
8754:   Function GRConstrain( const Value, Lo, Hi : Integer) : Integer;
8755:   Function Constrain1( const Value, Lo, Hi : Single) : Single;
8756:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer) : Integer
8757:   Function GRMin( const A, B, C : Integer) : Integer;
8758:   Function GRMax( const A, B, C : Integer) : Integer;
8759:   Function Clamp( Value, Max : Integer) : Integer;
8760:   Function Clamp1( Value, Min, Max : Integer) : Integer;
8761:   Function Wrap( Value, Max : Integer) : Integer;
8762:   Function Wrap1( Value, Min, Max : Integer) : Integer;
8763:   Function Wrap3( Value, Max : Single) : Single;;
8764:   Function WrapPow2( Value, Max : Integer) : Integer;
8765:   Function WrapPow21( Value, Min, Max : Integer) : Integer;
8766:   Function Mirror( Value, Max : Integer) : Integer;
8767:   Function Mirror1( Value, Min, Max : Integer) : Integer;
8768:   Function MirrorPow2( Value, Max : Integer) : Integer;
8769:   Function MirrorPow21( Value, Min, Max : Integer) : Integer;
8770:   Function GetOptimalWrap( Max : Integer) : TWrapProc;
8771:   Function GetOptimalWrap1( Min, Max : Integer) : TWrapProcEx;
8772:   Function GetOptimalMirror( Max : Integer) : TWrapProc;
8773:   Function GetOptimalMirror1( Min, Max : Integer) : TWrapProcEx;
8774:   Function GetWrapProc( WrapMode : TWrapMode) : TWrapProc;
8775:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer) : TWrapProc;
8776:   Function GetWrapProcEx( WrapMode : TWrapMode) : TWrapProcEx;
8777:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer):TWrapProcEx;
8778:   Function Div255( Value : Cardinal) : Cardinal
8779:   Function SAR_4( Value : Integer) : Integer
8780:   Function SAR_8( Value : Integer) : Integer
8781:   Function SAR_9( Value : Integer) : Integer
8782:   Function SAR_11( Value : Integer) : Integer
8783:   Function SAR_12( Value : Integer) : Integer
8784:   Function SAR_13( Value : Integer) : Integer
8785:   Function SAR_14( Value : Integer) : Integer
8786:   Function SAR_15( Value : Integer) : Integer
8787:   Function SAR_16( Value : Integer) : Integer
8788:   Function ColorSwap( WinColor : TColor) : TColor32
8789: end;
8790:
8791: procedure SIRегистer_GR32_Filters(CL: TPSPPascalCompiler);
8792: begin
8793:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )'
8794:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components);
8795:   Procedure CopyComponents1(Dst:TCustBmap32;DstX,
8796:     DstY:Int;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8797:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32)
8798:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean)
8799:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32)
8800:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components)
8801:   Procedure InvertRGB( Dst, Src : TCustomBitmap32)
8802:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean)
8803:   Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32)
8804:   Function CreateBitmask( Components : TColor32Components) : TColor32
8805:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
8806:     Bitmask : TColor32; LogicalOperator : TLogicalOperator);
8807:   Procedure
8808:     ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8809:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean)
8810:   procedure SIRегистer_JclNTFS(CL: TPSPPascalCompiler);
8811:   begin
8812:     AddClassN(FindClass('TOBJECT'),'EJclNtfsError'
8813:     AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )
8814:     Function NtfsGetCompression( const FileName : string; var State : Short) : Boolean;
8815:     Function NtfsGetCompression1( const FileName : string) : TFileCompressionState;
8816:     Function NtfsSetCompression( const FileName : string; const State : Short) : Boolean

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8817: Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState)
8818: Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState)
8819: Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState)
8820: Procedure NtfsSetPathCompression(const Path:string;const State:TFFileCompressionState;Recursive:Boolean;
8821: //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloca'
8822: //+'tedRangeBuffer; MoreData : Boolean; end
8823: Function NtfsSetSparse( const FileName : string) : Boolean
8824: Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64) : Boolean
8825: Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64) : Boolean
8826: //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64,var
Ranges:TNtfsAllocRanges):Boolean;
8827: //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
Index:Integer):TFileAllocatedRangeBuffer
8828: Function NtfsSparseStreamsSupported( const Volume : string) : Boolean
8829: Function NtfsGetSparse( const FileName : string) : Boolean
8830: Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD) : Boolean
8831: Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword) : Boolean
8832: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8833: Function NtfsGetReparseTag( const Path : string; var Tag : DWORD) : Boolean
8834: Function NtfsReparsePointsSupported( const Volume : string) : Boolean
8835: Function NtfsFileHasReparsePoint( const Path : string) : Boolean
8836: Function NtfsIsFolderMountPoint( const Path : string) : Boolean
8837: Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char) : Boolean
8838: Function NtfsMountVolume( const Volume : Char; const MountPoint : string) : Boolean
8839: AddTypeS('TOPLock', '( olExclusive, olReadOnly, olBatch, olFilter )
8840: Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped) : Boolean
8841: Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped) : Boolean
8842: Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped) : Boolean
8843: Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped) : Boolean
8844: Function NtfsRequestOpLock( Handle : THandle; Kind : TOPLock; Overlapped : TOverlapped) : Boolean
8845: Function NtfsCreateJunctionPoint( const Source, Destination : string) : Boolean
8846: Function NtfsDeleteJunctionPoint( const Source : string) : Boolean
8847: Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string) : Boolean
8848: AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8849: +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )
8850: AddTypeS('TStreamIds', 'set of TStreamId
8851: AddTypes('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8852: +' : __Pointer; StreamIds : TStreamIds; end
8853: AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8854: +'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8855: Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8856: Function NtfsFindNextStream( var Data : TFindStreamData) : Boolean
8857: Function NtfsFindClose( var Data : TFindStreamData) : Boolean
8858: Function NtfsCreateHardlink( const LinkFileName, ExistingFileName : string) : Boolean
8859: AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8860: Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo) : Boolean
8861: Function NtfsGetHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
List:TStrings):Bool;
8862: Function NtfsDeleteHardLinks( const FileName : string) : Boolean
8863: Function JclAppInstances : TJclAppInstances;
8864: Function JclAppInstances1( const UniqueAppIdGuidStr : string) : TJclAppInstances;
8865: Function ReadMessageCheck( var Message : TMessage;const IgnoredOriginatorWnd: HWND) : TJclAppInstDataKind
8866: Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer)
8867: Procedure ReadMessageString( const Message : TMessage; var S : string)
8868: Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings)
8869:
8870:
8871: (*-----*)
8872: procedure SIRegister_JclGraphics(CL: TPSPascalCompiler);
8873: begin
8874:   FindClass('TOBJECT'), 'EJclGraphicsError
8875:   TDynIntegerArrayArray', 'array of TDynIntegerArray
8876:   TDynPointArray', 'array of TPoint
8877:   TDynDynPointArrayArray', 'array of TDynPointArray
8878:   TPointF', 'record X : Single; Y : Single; end
8879:   TDynPointArrayF', 'array of TPointF
8880:   TDrawMode2', '( dmOpaque, dmBlend )
8881:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8882:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8883:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8884:   TMMatrix3d', 'record array[0..2,0..2] of extended end
8885:   TDynDynPointArrayArrayB', 'array of TDynPointArrayF
8886:   TScanLine', 'array of Integer
8887:   TScanLines', 'array of TScanLine
8888:   TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8889:   TGradientDirection', '( gdVertical, gdHorizontal )
8890:   TPolyFillMode', '( fmAlternate, fmWinding )
8891:   TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8892:   TJclRegionBitmapMode', '( rmInclude, rmExclude )
8893:   TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8894:   SIRegister_TJclDesktopCanvas(CL);
8895:   FindClass('TOBJECT'), 'TJclRegion
8896:   SIRegister_TJclRegionInfo(CL);
8897:   SIRegister_TJclRegion(CL);
8898:   SIRegister_TJclThreadPersistent(CL);
8899:   SIRegister_TJclCustomMap(CL);
8900:   SIRegister_TJclBitmap32(CL);
8901:   SIRegister_TJclByteMap(CL);
8902:   SIRegister_TJclTransformation(CL);

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8903:  SIRegister_TJclLinearTransformation(CL);
8904:  Procedure Stretch(NewWidth,
8905:    NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8906:  Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8907:  Function GetAntialiasedBitmap( const Bitmap : TBitmap ) : TBitmap
8908:  Procedure BitmapToJpeg( const FileName : string )
8909:  Procedure JpegToBitmap( const FileName : string )
8910:  Function ExtractIconCount( const FileName : string ) : Integer
8911:  Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8912:  Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8913:  Procedure
8914:    BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8915:    Procedure StretchTransfer(Dst:TJclBitmap32;
8916:      DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8917:    Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation )
8918:    Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect )
8919:    Function FillGradient(DC:HDC;ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection : TGradientDirection) : Boolean;
8920:    Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
8921:      RegionBitmapMode:TJclRegionBitmapMode): HRGN
8922:    Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND );
8923:    Procedure ScreenShot1( bm : TBitmap );
8924:    Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8925:    Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8926:    Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32 )
8927:    Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8928:    Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8929:    Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32 );
8930:    Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32 )
8931:    Procedure IntensityToAlpha( Dst, Src : TJclBitmap32 )
8932:    Procedure Invert( Dst, Src : TJclBitmap32 )
8933:    Procedure InvertRGB( Dst, Src : TJclBitmap32 )
8934:    Procedure ColorToGrayscale( Dst, Src : TJclBitmap32 )
8935:    Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8 )
8936:    Procedure SetGamma( Gamma : Single )
8937:  end;
8938:
8939:  (*-----*)
8940: procedure SIRegister_JclSynch(CL: TPSPascalCompiler);
8941: begin
8942:   Function LockedAdd( var Target : Integer; Value : Integer ) : Integer
8943:   Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer ) : Integer
8944:   Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer ) : Pointer;
8945:   Function LockedDec( var Target : Integer ) : Integer
8946:   Function LockedExchange( var Target : Integer; Value : Integer ) : Integer
8947:   Function LockedExchangeAdd( var Target : Integer; Value : Integer ) : Integer
8948:   Function LockedExchangeDec( var Target : Integer ) : Integer
8949:   Function LockedExchangeInc( var Target : Integer ) : Integer
8950:   Function LockedExchangeSub( var Target : Integer; Value : Integer ) : Integer
8951:   Function LockedInc( var Target : Integer ) : Integer
8952:   Function LockedSub( var Target : Integer; Value : Integer ) : Integer
8953:   TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8954:   SIRegister_TJclDispatcherObject(CL);
8955:   Function WaitForMultipleObjects(const Objects:array of
8956:     TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8957:   Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
8958:     TimeOut : Cardinal):Cardinal
8959:   SIRegister_TJclCriticalSection(CL);
8960:   SIRegister_TJclEvent(CL);
8961:   SIRegister_TJclWaitableTimer(CL);
8962:   SIRegister_TJclSemaphore(CL);
8963:   SIRegister_TJclMutex(CL);
8964:   TOptexSharedInfo', '^TOptexSharedInfo // will not work
8965:   SIRegister_TJclOptex(CL);
8966:   TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8967:   TMrewThreadInfo', 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end
8968:   TMrewThreadInfoArray', 'array of TMrewThreadInfo
8969:   SIRegister_TJclMultiReadWrite(CL);
8970:   PMetSectSharedInfo', '^PMetSectSharedInfo // will not work
8971:   TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
8972:     +'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8973:   PMeteredSection', '^PMeteredSection // will not work
8974:   TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8975:   SIRegister_TJclMeteredSection(CL);
8976:   TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8977:   TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8978:   TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount : Longint; end
8979:   TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8980:   Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTCriticalSection ) : Boolean
8981:   Function QueryEvent( Handle : THandle; var Info : TEventInfo ) : Boolean
8982:   Function QueryMutex( Handle : THandle; var Info : TMutexInfo ) : Boolean
8983:   Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts ) : Boolean
8984:   Function QueryTimer( Handle : THandle; var Info : TTimerInfo ) : Boolean

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8985:   FindClass( 'TOBJECT' ), 'EJclWin32HandleObjectError
8986:   FindClass( 'TOBJECT' ), 'EJclDispatcherObjectError
8987:   FindClass( 'TOBJECT' ), 'EJclCriticalSectionError
8988:   FindClass( 'TOBJECT' ), 'EJclEventError
8989:   FindClass( 'TOBJECT' ), 'EJclWaitableTimerError
8990:   FindClass( 'TOBJECT' ), 'EJclSemaphoreError
8991:   FindClass( 'TOBJECT' ), 'EJclMutexError
8992:   FindClass( 'TOBJECT' ), 'EJclMeteredSectionError
8993: end;
8994:
8995:
8996: //*****unit uPSI_mORMotReport;
8997: Procedure SetCurrentPrinterAsDefault
8998: Function CurrentPrinterName : string
8999: Function mCurrentPrinterPaperSize : string
9000: Procedure UseDefaultPrinter
9001:
9002: procedure SIRegisterTSTREAM(Cl: TPSPascalCompiler);
9003: begin
9004:   with FindClass( 'TOBJECT' ), 'TStream' ) do begin
9005:     IsAbstract := True;
9006:     //RegisterMethod('Function Read( var Buffer, Count : Longint ) : Longint
9007:     // RegisterMethod('Function Write( const Buffer, Count : Longint ) : Longint
9008:     function Read(Buffer:String;Count:LongInt):LongInt
9009:     function Write(Buffer:String;Count:LongInt):LongInt
9010:     function ReadString(Buffer:String;Count:LongInt):LongInt      //FileStream
9011:     function WriteString(Buffer:String;Count:LongInt):LongInt
9012:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
9013:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
9014:     function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
9015:     function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
9016:
9017:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
9018:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
9019:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
9020:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
9021:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
9022:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
9023:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
9024:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
9025:
9026:     function Seek(Offset:LongInt;Origin:Word):LongInt
9027:     procedure ReadBuffer(Buffer:String;Count:LongInt)
9028:     procedure WriteBuffer(Buffer:String;Count:LongInt)
9029:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)';
9030:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)';
9031:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)';
9032:     procedure WriteBufferFloat(Buffer:Double;Count:LongInt)';
9033:
9034:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
9035:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
9036:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
9037:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
9038:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
9039:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
9040:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
9041:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
9042:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
9043:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
9044:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
9045:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
9046:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
9047:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
9048:
9049:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
9050:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
9051:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)';
9052:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
9053: //READBUFFERAC
9054:     function InstanceSize: Longint
9055:     Procedure FixupResourceHeader( FixupInfo : Integer )
9056:     Procedure ReadResHeader
9057:
9058: {$IFDEF DELPHI4UP}
9059:     function CopyFrom(Source:TStream;Count:Int64):LongInt
9060: {$ELSE}
9061:     function CopyFrom(Source:TStream;Count:Integer):LongInt
9062: {$ENDIF}
9063:     RegisterProperty('Position', 'LongInt', iptrw);
9064:     RegisterProperty('Size', 'LongInt', iptrw);
9065:   end;
9066: end;
9067:
9068:
9069: { *****
9070:   Unit DMATH - Interface for DMATH.DLL
9071: *****
9072: // see more docs/dmath_manual.pdf
9073:
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9074: Function InitEval : Integer
9075: Procedure SetVariable( VarName : Char; Value : Float)
9076: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9077: Function Eval( ExpressionString : String) : Float
9078:
9079: unit dmath; //types are in built, others are external in DLL
9080: interface
9081: {$IFDEF DELPHI}
9082: uses
9083:   StdCtrls, Graphics;
9084: {$ENDIF}
9085: {
9086:   -----  

9087:   Types and constants  

9088:   ----- }  

9089: {
9090:   -----  

9091:   Error handling  

9092:   ----- }  

9093: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9094: { Sets the error code }
9095: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9096: { Sets error code and default function value }
9097: function MathErr : Integer; external 'dmath';
9098: { Returns the error code }
9099: {-----  

9100:   ----- }  

9101: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9102: { Sets the auto-initialization of arrays }
9103: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9104: { Creates floating point vector V[0..Ub] }
9105: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9106: { Creates integer vector V[0..Ub] }
9107: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9108: { Creates complex vector V[0..Ub] }
9109: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9110: { Creates boolean vector V[0..Ub] }
9111: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9112: { Creates string vector V[0..Ub] }
9113: procedure DimMatrix(var A : TMatrix; Ubl, Ub2 : Integer); external 'dmath';
9114: { Creates floating point matrix A[0..Ubl, 0..Ub2] }
9115: procedure DimIntMatrix(var A : TIntMatrix; Ubl, Ub2 : Integer); external 'dmath';
9116: { Creates integer matrix A[0..Ubl, 0..Ub2] }
9117: procedure DimCompMatrix(var A : TCompMatrix; Ubl, Ub2 : Integer); external 'dmath';
9118: { Creates complex matrix A[0..Ubl, 0..Ub2] }
9119: procedure DimBoolMatrix(var A : TBoolMatrix; Ubl, Ub2 : Integer); external 'dmath';
9120: { Creates boolean matrix A[0..Ubl, 0..Ub2] }
9121: procedure DimStrMatrix(var A : TStringMatrix; Ubl, Ub2 : Integer); external 'dmath';
9122: { Creates string matrix A[0..Ubl, 0..Ub2] }
9123: {-----  

9124:   Minimum, maximum, sign and exchange  

9125:   ----- }  

9126: function FMin(X, Y : Float) : Float; external 'dmath';
9127: { Minimum of 2 reals }
9128: function FMax(X, Y : Float) : Float; external 'dmath';
9129: { Maximum of 2 reals }
9130: function IMin(X, Y : Integer) : Integer; external 'dmath';
9131: { Minimum of 2 integers }
9132: function IMax(X, Y : Integer) : Integer; external 'dmath';
9133: { Maximum of 2 integers }
9134: function Sgn(X : Float) : Integer; external 'dmath';
9135: { Sign (returns 1 if X = 0) }
9136: function Sgn0(X : Float) : Integer; external 'dmath';
9137: { Sign (returns 0 if X = 0) }
9138: function DSgn(A, B : Float) : Float; external 'dmath';
9139: { Sgn(B) * |A| }
9140: procedure FSwap(var X, Y : Float); external 'dmath';
9141: { Exchange 2 reals }
9142: procedure ISwap(var X, Y : Integer); external 'dmath';
9143: { Exchange 2 integers }
9144: {-----  

9145:   Rounding functions  

9146:   ----- }  

9147: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9148: { Rounds X to N decimal places }
9149: function Ceil(X : Float) : Integer; external 'dmath';
9150: { Ceiling function }
9151: function Floor(X : Float) : Integer; external 'dmath';
9152: { Floor function }
9153: {-----  

9154:   Logarithms, exponentials and power  

9155:   ----- }  

9156: function Expo(X : Float) : Float; external 'dmath';
9157: { Exponential }
9158: function Exp2(X : Float) : Float; external 'dmath';
9159: { 2^X }
9160: function Exp10(X : Float) : Float; external 'dmath';
9161: { 10^X }
9162: function Log(X : Float) : Float; external 'dmath';

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9163: { Natural log }
9164: function Log2(X : Float) : Float; external 'dmath';
9165: { Log, base 2 }
9166: function Log10(X : Float) : Float; external 'dmath';
9167: { Decimal log }
9168: function LogA(X, A : Float) : Float; external 'dmath';
9169: { Log, base A }
9170: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9171: { X^N }
9172: function Power(X, Y : Float) : Float; external 'dmath';
9173: { X^Y, X >= 0 }
9174: { -----
9175:   Trigonometric functions
9176:   -----
9177:   function Pythag(X, Y : Float) : Float; external 'dmath';
9178:   { Sqrt(X^2 + Y^2) }
9179:   function FixAngle(Theta : Float) : Float; external 'dmath';
9180:   { Set Theta in -Pi..Pi }
9181:   function Tan(X : Float) : Float; external 'dmath';
9182:   { Tangent }
9183:   function ArcSin(X : Float) : Float; external 'dmath';
9184:   { Arc sinus }
9185:   function ArcCos(X : Float) : Float; external 'dmath';
9186:   { Arc cosinus }
9187:   function ArcTan2(Y, X : Float) : Float; external 'dmath';
9188:   { Angle (Ox, OM) with M(X,Y) }
9189:   { -----
9190:     Hyperbolic functions
9191:   -----
9192:   function Sinh(X : Float) : Float; external 'dmath';
9193:   { Hyperbolic sine }
9194:   function Cosh(X : Float) : Float; external 'dmath';
9195:   { Hyperbolic cosine }
9196:   function Tanh(X : Float) : Float; external 'dmath';
9197:   { Hyperbolic tangent }
9198:   function ArcSinh(X : Float) : Float; external 'dmath';
9199:   { Inverse hyperbolic sine }
9200:   function ArcCosh(X : Float) : Float; external 'dmath';
9201:   { Inverse hyperbolic cosine }
9202:   function ArcTanh(X : Float) : Float; external 'dmath';
9203:   { Inverse hyperbolic tangent }
9204:   procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9205:   { Sinh & Cosh }
9206:   { -----
9207:     Gamma function and related functions
9208:   -----
9209:   function Fact(N : Integer) : Float; external 'dmath';
9210:   { Factorial }
9211:   function SgnGamma(X : Float) : Integer; external 'dmath';
9212:   { Sign of Gamma function }
9213:   function Gamma(X : Float) : Float; external 'dmath';
9214:   { Gamma function }
9215:   function LnGamma(X : Float) : Float; external 'dmath';
9216:   { Logarithm of Gamma function }
9217:   function Stirling(X : Float) : Float; external 'dmath';
9218:   { Stirling's formula for the Gamma function }
9219:   function StirLog(X : Float) : Float; external 'dmath';
9220:   { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9221:   function DiGamma(X : Float) : Float; external 'dmath';
9222:   { Digamma function }
9223:   function TriGamma(X : Float) : Float; external 'dmath';
9224:   { Trigamma function }
9225:   function IGamma(A, X : Float) : Float; external 'dmath';
9226:   { Incomplete Gamma function }
9227:   function JGamma(A, X : Float) : Float; external 'dmath';
9228:   { Complement of incomplete Gamma function }
9229:   function InvGamma(A, P : Float) : Float; external 'dmath';
9230:   { Inverse of incomplete Gamma function }
9231:   function Erf(X : Float) : Float; external 'dmath';
9232:   { Error function }
9233:   function Erfc(X : Float) : Float; external 'dmath';
9234:   { Complement of error function }
9235:   { -----
9236:     Beta function and related functions
9237:   -----
9238:   function Beta(X, Y : Float) : Float; external 'dmath';
9239:   { Beta function }
9240:   function IBeta(A, B, X : Float) : Float; external 'dmath';
9241:   { Incomplete Beta function }
9242:   function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9243:   { Inverse of incomplete Beta function }
9244:   { -----
9245:     Lambert's function
9246:     -----
9247:   function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9248:   -----
9249:   Binomial distribution
9250:   -----
9251:   function Binomial(N, K : Integer) : Float; external 'dmath';

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9252: { Binomial coefficient C(N,K) }
9253: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9254: { Probability of binomial distribution }
9255: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9256: { Cumulative probability for binomial distrib. }
9257: { -----
9258: Poisson distribution
9259: ----- }
9260: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9261: { Probability of Poisson distribution }
9262: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9263: { Cumulative probability for Poisson distrib. }
9264: { -----
9265: Exponential distribution
9266: ----- }
9267: function DExpo(A, X : Float) : Float; external 'dmath';
9268: { Density of exponential distribution with parameter A }
9269: function FExpo(A, X : Float) : Float; external 'dmath';
9270: { Cumulative probability function for exponential dist. with parameter A }
9271: { -----
9272: Standard normal distribution
9273: ----- }
9274: function DNorm(X : Float) : Float; external 'dmath';
9275: { Density of standard normal distribution }
9276: function FNorm(X : Float) : Float; external 'dmath';
9277: { Cumulative probability for standard normal distrib. }
9278: function PNorm(X : Float) : Float; external 'dmath';
9279: { Prob(|U| > X) for standard normal distrib. }
9280: function InvNorm(P : Float) : Float; external 'dmath';
9281: { Inverse of standard normal distribution }
9282: { -----
9283: Student's distribution
9284: ----- }
9285: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9286: { Density of Student distribution with Nu d.o.f. }
9287: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9288: { Cumulative probability for Student distrib. with Nu d.o.f. }
9289: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9290: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9291: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9292: { Inverse of Student's t-distribution function }
9293: { -----
9294: Khi-2 distribution
9295: ----- }
9296: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9297: { Density of Khi-2 distribution with Nu d.o.f. }
9298: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9299: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9300: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9301: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9302: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9303: { Inverse of Khi-2 distribution function }
9304: { -----
9305: Fisher-Snedecor distribution
9306: ----- }
9307: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9308: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9309: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9310: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9311: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9312: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9313: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9314: { Inverse of Snedecor's F-distribution function }
9315: { -----
9316: Beta distribution
9317: ----- }
9318: function DBeta(A, B, X : Float) : Float; external 'dmath';
9319: { Density of Beta distribution with parameters A and B }
9320: function FBeta(A, B, X : Float) : Float; external 'dmath';
9321: { Cumulative probability for Beta distrib. with param. A and B }
9322: { -----
9323: Gamma distribution
9324: ----- }
9325: function DGamma(A, B, X : Float) : Float; external 'dmath';
9326: { Density of Gamma distribution with parameters A and B }
9327: function FGamma(A, B, X : Float) : Float; external 'dmath';
9328: { Cumulative probability for Gamma distrib. with param. A and B }
9329: { -----
9330: Expression evaluation
9331: ----- }
9332: function InitEval : Integer; external 'dmath';
9333: { Initializes built-in functions and returns their number }
9334: function Eval(ExpressionString : String) : Float; external 'dmath';
9335: { Evaluates an expression at run-time }
9336: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9337: { Assigns a value to a variable }
9338: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9339: { Adds a function to the parser }
9340: { -----

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9341:  Matrices and linear equations
9342:  -----
9343:  procedure GaussJordan(A          : TMatrix;
9344:           Lb, Ubl, Ub2 : Integer;
9345:           var Det      : Float); external 'dmath';
9346: { Transforms a matrix according to the Gauss-Jordan method }
9347:  procedure LinEq(A          : TMatrix;
9348:           B          : TVector;
9349:           Lb, Ub : Integer;
9350:           var Det : Float); external 'dmath';
9351: { Solves a linear system according to the Gauss-Jordan method }
9352:  procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9353: { Cholesky factorization of a positive definite symmetric matrix }
9354:  procedure LU_Decompo(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9355: { LU decomposition }
9356:  procedure LU_Solve(A       : TMatrix;
9357:           B       : TVector;
9358:           Lb, Ub : Integer;
9359:           X       : TVector); external 'dmath';
9360: { Solution of linear system from LU decomposition }
9361:  procedure QR_Decompo(A      : TMatrix;
9362:           Lb, Ubl, Ub2 : Integer;
9363:           R      : TMatrix); external 'dmath';
9364: { QR decomposition }
9365:  procedure QR_Solve(Q, R     : TMatrix;
9366:           B       : TVector;
9367:           Lb, Ubl, Ub2 : Integer;
9368:           X       : TVector); external 'dmath';
9369: { Solution of linear system from QR decomposition }
9370:  procedure SV_Decompo(A     : TMatrix;
9371:           Lb, Ubl, Ub2 : Integer;
9372:           S       : TVector;
9373:           V       : TMatrix); external 'dmath';
9374: { Singular value decomposition }
9375:  procedure SV_SetZero(S    : TVector;
9376:           Lb, Ub : Integer;
9377:           Tol   : Float); external 'dmath';
9378: { Set lowest singular values to zero }
9379:  procedure SV_Solve(U    : TMatrix;
9380:           S    : TVector;
9381:           V    : TMatrix;
9382:           B    : TVector;
9383:           Lb, Ubl, Ub2 : Integer;
9384:           X    : TVector); external 'dmath';
9385: { Solution of linear system from SVD }
9386:  procedure SV_Approx(U   : TMatrix;
9387:           S   : TVector;
9388:           V   : TMatrix;
9389:           Lb, Ubl, Ub2 : Integer;
9390:           A   : TMatrix); external 'dmath';
9391: { Matrix approximation from SVD }
9392:  procedure EigenVals(A   : TMatrix;
9393:           Lb, Ub : Integer;
9394:           Lambda : TCompVector); external 'dmath';
9395: { Eigenvalues of a general square matrix }
9396:  procedure EigenVect(A  : TMatrix;
9397:           Lb, Ub : Integer;
9398:           Lambda : TCompVector;
9399:           V   : TMatrix); external 'dmath';
9400: { Eigenvalues and eigenvectors of a general square matrix }
9401:  procedure EigenSym(A  : TMatrix;
9402:           Lb, Ub : Integer;
9403:           Lambda : TVector;
9404:           V   : TMatrix); external 'dmath';
9405: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9406:  procedure Jacobi(A   : TMatrix;
9407:           Lb, Ub, MaxIter : Integer;
9408:           Tol   : Float;
9409:           Lambda : TVector;
9410:           V   : TMatrix); external 'dmath';
9411: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9412: { -----
9413: Optimization
9414: -----
9415:  procedure MinBrack(Func      : TFunc;
9416:           var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9417: { Brackets a minimum of a function }
9418:  procedure GoldSearch(Func    : TFunc;
9419:           A, B      : Float;
9420:           MaxIter  : Integer;
9421:           Tol      : Float;
9422:           var Xmin, Ymin : Float); external 'dmath';
9423: { Minimization of a function of one variable (golden search) }
9424:  procedure LinMin(Func   : TFuncNVar;
9425:           X, DeltaX : TVector;
9426:           Lb, Ub : Integer;
9427:           var R   : Float;
9428:           MaxIter : Integer;
9429:           Tol     : Float;

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9430:           var F_min : Float); external 'dmath';
9431: { Minimization of a function of several variables along a line }
9432: procedure Newton(Func      : TFuncNVar;
9433:                      HessGrad : THessGrad;
9434:                      X        : TVector;
9435:                      Lb, Ub   : Integer;
9436:                      MaxIter  : Integer;
9437:                      Tol      : Float;
9438:           var F_min : Float;
9439:           G        : TVector;
9440:           H_inv   : TMatrix;
9441:           var Det  : Float); external 'dmath';
9442: { Minimization of a function of several variables (Newton's method) }
9443: procedure SaveNewton(FileName : string); external 'dmath';
9444: { Save Newton iterations in a file }
9445: procedure Marquardt(Func      : TFuncNVar;
9446:                      HessGrad : THessGrad;
9447:                      X        : TVector;
9448:                      Lb, Ub   : Integer;
9449:                      MaxIter  : Integer;
9450:                      Tol      : Float;
9451:           var F_min : Float;
9452:           G        : TVector;
9453:           H_inv   : TMatrix;
9454:           var Det  : Float); external 'dmath';
9455: { Minimization of a function of several variables (Marquardt's method) }
9456: procedure SaveMarquardt(FileName : string); external 'dmath';
9457: { Save Marquardt iterations in a file }
9458: procedure BFGS(Func      : TFuncNVar;
9459:                      Gradient : TGradient;
9460:                      X        : TVector;
9461:                      Lb, Ub   : Integer;
9462:                      MaxIter  : Integer;
9463:                      Tol      : Float;
9464:           var F_min : Float;
9465:           G        : TVector;
9466:           H_inv   : TMatrix); external 'dmath';
9467: { Minimization of a function of several variables (BFGS method) }
9468: procedure SaveBFGS(FileName : string); external 'dmath';
9469: { Save BFGS iterations in a file }
9470: procedure Simplex(Func      : TFuncNVar;
9471:                      X        : TVector;
9472:                      Lb, Ub   : Integer;
9473:                      MaxIter  : Integer;
9474:                      Tol      : Float;
9475:           var F_min : Float); external 'dmath';
9476: { Minimization of a function of several variables (Simplex) }
9477: procedure SaveSimplex(FileName : string); external 'dmath';
9478: { Save Simplex iterations in a file }
9479: { -----
9480: Nonlinear equations
9481: ----- }
9482: procedure RootBrack(Func      : TFunc;
9483:                         var X, Y, FX, FY : Float); external 'dmath';
9484: { Brackets a root of function Func between X and Y }
9485: procedure Bisect(Func      : TFunc;
9486:                      var X, Y : Float;
9487:                      MaxIter : Integer;
9488:                      Tol     : Float;
9489:           var F   : Float); external 'dmath';
9490: { Bisection method }
9491: procedure Secant(Func      : TFunc;
9492:                      var X, Y : Float;
9493:                      MaxIter : Integer;
9494:                      Tol     : Float;
9495:           var F   : Float); external 'dmath';
9496: { Secant method }
9497: procedure NewtEq(Func, Deriv : TFunc;
9498:                      var X      : Float;
9499:                      MaxIter  : Integer;
9500:                      Tol      : Float;
9501:           var F      : Float); external 'dmath';
9502: { Newton-Raphson method for a single nonlinear equation }
9503: procedure NewtEgs(Equations : TEquations;
9504:                      Jacobian : TJacobian;
9505:                      X, F    : TVector;
9506:                      Lb, Ub   : Integer;
9507:                      MaxIter  : Integer;
9508:                      Tol      : Float); external 'dmath';
9509: { Newton-Raphson method for a system of nonlinear equations }
9510: procedure Broyden(Equations : TEquations;
9511:                      X, F    : TVector;
9512:                      Lb, Ub   : Integer;
9513:                      MaxIter  : Integer;
9514:                      Tol      : Float); external 'dmath';
9515: { Broyden's method for a system of nonlinear equations }
9516: { -----
9517: Polynomials and rational fractions
9518: ----- }

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9519: function Poly(X      : Float;
9520:                  Coef : TVector;
9521:                  Deg : Integer) : Float; external 'dmath';
9522: { Evaluates a polynomial }
9523: function RFrac(X      : Float;
9524:                  Coef      : TVector;
9525:                  Deg1, Deg2 : Integer) : Float; external 'dmath';
9526: { Evaluates a rational fraction }
9527: function RootPol1(A, B : Float;
9528:                      var X : Float) : Integer; external 'dmath';
9529: { Solves the linear equation A + B * X = 0 }
9530: function RootPol2(Coef : TVector;
9531:                      Z    : TCompVector) : Integer; external 'dmath';
9532: { Solves a quadratic equation }
9533: function RootPol3(Coef : TVector;
9534:                      Z    : TCompVector) : Integer; external 'dmath';
9535: { Solves a cubic equation }
9536: function RootPol4(Coef : TVector;
9537:                      Z    : TCompVector) : Integer; external 'dmath';
9538: { Solves a quartic equation }
9539: function RootPol(Coef : TVector;
9540:                      Deg : Integer;
9541:                      Z    : TCompVector) : Integer; external 'dmath';
9542: { Solves a polynomial equation }
9543: function SetRealRoots(Deg : Integer;
9544:                          Z    : TCompVector;
9545:                          Tol : Float) : Integer; external 'dmath';
9546: { Set the imaginary part of a root to zero }
9547: procedure SortRoots(Deg : Integer;
9548:                       Z    : TCompVector); external 'dmath';
9549: { Sorts the roots of a polynomial }
9550: { -----
9551: Numerical integration and differential equations
9552: ----- }
9553: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9554: { Integration by trapezoidal rule }
9555: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9556: { Integral from A to B }
9557: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9558: { Integral from 0 to B }
9559: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9560: { Convolution product at time T }
9561: procedure ConvTrap(Func1,Func2:TFunc; T,Y:TVector; N:Integer);external 'dmath';
9562: { Convolution by trapezoidal rule }
9563: procedure RKF45(F           : TDiffEqs;
9564:                     Neqn        : Integer;
9565:                     Y, Yp       : TVector;
9566:                     var T       : Float;
9567:                     Tout, RelErr, AbsErr : Float;
9568:                     var Flag    : Integer); external 'dmath';
9569: { Integration of a system of differential equations }
9570: { -----
9571: Fast Fourier Transform
9572: ----- }
9573: procedure FFT(NumSamples   : Integer;
9574:                   InArray, OutArray : TCompVector); external 'dmath';
9575: { Fast Fourier Transform }
9576: procedure IFFT(NumSamples   : Integer;
9577:                   InArray, OutArray : TCompVector); external 'dmath';
9578: { Inverse Fast Fourier Transform }
9579: procedure FFT_Integer(NumSamples   : Integer;
9580:                           RealIn, ImagIn : TIntVector;
9581:                           OutArray     : TCompVector); external 'dmath';
9582: { Fast Fourier Transform for integer data }
9583: procedure FFT_Integer_Cleanup; external 'dmath';
9584: { Clear memory after a call to FFT_Integer }
9585: procedure CalcFrequency(NumSamples,
9586:                           FrequencyIndex : Integer;
9587:                           InArray        : TCompVector;
9588:                           var FFT        : Complex); external 'dmath';
9589: { Direct computation of Fourier transform }
9590: { -----
9591: Random numbers
9592: ----- }
9593: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9594: { Select generator }
9595: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9596: { Initialize generator }
9597: function IRanGen : RNG_IntType; external 'dmath';
9598: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9599: function IRanGen31 : RNG_IntType; external 'dmath';
9600: { 31-bit random integer in [0 .. 2^31 - 1] }
9601: function RanGen1 : Float; external 'dmath';
9602: { 32-bit random real in [0,1] }
9603: function RanGen2 : Float; external 'dmath';
9604: { 32-bit random real in [0,1) }
9605: function RanGen3 : Float; external 'dmath';
9606: { 32-bit random real in (0,1) }
9607: function RanGen53 : Float; external 'dmath';

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9608: { 53-bit random real in [0,1) }
9609: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9610: { Initializes the 'Multiply with carry' random number generator }
9611: function IRanMWC : RNG_IntType; external 'dmath';
9612: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9613: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9614: { Initializes Mersenne Twister generator with a seed }
9615: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9616:                           KeyLength : Word); external 'dmath';
9617: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9618: function IRanMT : RNG_IntType; external 'dmath';
9619: { Random integer from MT generator }
9620: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9621: { Initializes the UVAG generator with a string }
9622: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9623: { Initializes the UVAG generator with an integer }
9624: function IRanUVAG : RNG_IntType; external 'dmath';
9625: { Random integer from UVAG generator }
9626: function RanGaussStd : Float; external 'dmath';
9627: { Random number from standard normal distribution }
9628: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9629: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9630: procedure RanMult(M       : TVector; L      : TMatrix;
9631:                      Lb, Ub : Integer;
9632:                      X      : TVector); external 'dmath';
9633: { Random vector from multinormal distribution (correlated) }
9634: procedure RanMultIndep(M, S   : TVector;
9635:                          Lb, Ub : Integer;
9636:                          X      : TVector); external 'dmath';
9637: { Random vector from multinormal distribution (uncorrelated) }
9638: procedure InitMHParams(NCycles, MaxSim, Savedsim : Integer); external 'dmath';
9639: { Initializes Metropolis-Hastings parameters }
9640: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9641: { Returns Metropolis-Hastings parameters }
9642: procedure Hastings(Func      : TFUNCNVar;
9643:                        T        : Float;
9644:                        X        : TVector;
9645:                        V        : TMatrix;
9646:                        Lb, Ub : Integer;
9647:                        Xmat    : TMatrix;
9648:                        X_min   : TVector;
9649:                        var F_min : Float); external 'dmath';
9650: { Simulation of a probability density function by Metropolis-Hastings }
9651: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9652: { Initializes Simulated Annealing parameters }
9653: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9654: { Initializes log file }
9655: procedure SimAnn(Func      : TFUNCNVar;
9656:                       X, Xmin, Xmax : TVector;
9657:                       Lb, Ub : Integer;
9658:                       var F_min : Float); external 'dmath';
9659: { Minimization of a function of several var. by simulated annealing }
9660: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9661: { Initializes Genetic Algorithm parameters }
9662: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9663: { Initializes log file }
9664: procedure GenAlg(Func      : TFUNCNVar;
9665:                       X, Xmin, Xmax : TVector;
9666:                       Lb, Ub : Integer;
9667:                       var F_min : Float); external 'dmath';
9668: { Minimization of a function of several var. by genetic algorithm }
9669: { -----
9670:  Statistics
9671:  ----- }
9672: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9673: { Mean of sample X }
9674: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9675: { Minimum of sample X }
9676: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9677: { Maximum of sample X }
9678: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9679: { Median of sample X }
9680: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9681: { Standard deviation estimated from sample X }
9682: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9683: { Standard deviation of population }
9684: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9685: { Correlation coefficient }
9686: function Skewness(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9687: { Skewness of sample X }
9688: function Kurtosis(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9689: { Kurtosis of sample X }
9690: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9691: { Quick sort (ascending order) }
9692: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9693: { Quick sort (descending order) }
9694: procedure Interval(X1, X2           : Float;
9695:                       MinDiv, MaxDiv : Integer;
9696:                       var Min, Max, Step : Float); external 'dmath';

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9697: { Determines an interval for a set of values }
9698: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9699:   var XMin, XMax, XStep : Float); external 'dmath';
9700: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9701: procedure StudIndep(N1, N2 : Integer;
9702:   M1, M2, S1, S2 : Float;
9703:   var T : Float;
9704:   var DoF : Integer); external 'dmath';
9705: { Student t-test for independent samples }
9706: procedure StudPaired(X, Y : TVector;
9707:   Lb, Ub : Integer;
9708:   var T : Float;
9709:   var DoF : Integer); external 'dmath';
9710: { Student t-test for paired samples }
9711: procedure AnOVal(Ns : Integer;
9712:   N : TIntVector;
9713:   M, S : TVector;
9714:   var V_f, V_r, F : Float;
9715:   var DoF_f, DoF_r : Integer); external 'dmath';
9716: { One-way analysis of variance }
9717: procedure AnOva2(NA, NB, Nobs : Integer;
9718:   M, S : TMatrix;
9719:   V, F : TVector;
9720:   DoF : TIntVector); external 'dmath';
9721: { Two-way analysis of variance }
9722: procedure Snedecor(N1, N2 : Integer;
9723:   S1, S2 : Float;
9724:   var F : Float;
9725:   var DoF1, DoF2 : Integer); external 'dmath';
9726: { Snedecor's F-test (comparison of two variances) }
9727: procedure Bartlett(Ns : Integer;
9728:   N : TIntVector;
9729:   S : TVector;
9730:   var Khi2 : Float;
9731:   var DoF : Integer); external 'dmath';
9732: { Bartlett's test (comparison of several variances) }
9733: procedure Mann_Whitney(N1, N2 : Integer;
9734:   X1, X2 : TVector;
9735:   var U, Eps : Float); external 'dmath';
9736: { Mann-Whitney test }
9737: procedure Wilcoxon(X, Y : TVector;
9738:   Lb, Ub : Integer;
9739:   var Ndiff : Integer;
9740:   var T, Eps : Float); external 'dmath';
9741: { Wilcoxon test }
9742: procedure Kruskal_Wallis(Ns : Integer;
9743:   N : TIntVector;
9744:   X : TMatrix;
9745:   var H : Float;
9746:   var DoF : Integer); external 'dmath';
9747: { Kruskal-Wallis test }
9748: procedure Khi2_Conform(N_cls : Integer;
9749:   N_estim : Integer;
9750:   Obs : TIntVector;
9751:   Calc : TVector;
9752:   var Khi2 : Float;
9753:   var DoF : Integer); external 'dmath';
9754: { Khi-2 test for conformity }
9755: procedure Khi2_Indep(N_lin : Integer;
9756:   N_col : Integer;
9757:   Obs : TIntMatrix;
9758:   var Khi2 : Float;
9759:   var DoF : Integer); external 'dmath';
9760: { Khi-2 test for independence }
9761: procedure Woolf_Conform(N_cls : Integer;
9762:   N_estim : Integer;
9763:   Obs : TIntVector;
9764:   Calc : TVector;
9765:   var G : Float;
9766:   var DoF : Integer); external 'dmath';
9767: { Woolf's test for conformity }
9768: procedure Woolf_Indep(N_lin : Integer;
9769:   N_col : Integer;
9770:   Obs : TIntMatrix;
9771:   var G : Float;
9772:   var DoF : Integer); external 'dmath';
9773: { Woolf's test for independence }
9774: procedure DimStatClassVector(var C : TStatClassVector;
9775:   Ub : Integer); external 'dmath';
9776: { Allocates an array of statistical classes: C[0..Ub] }
9777: procedure Distrib(X : TVector;
9778:   Lb, Ub : Integer;
9779:   A, B, H : Float;
9780:   C : TStatClassVector); external 'dmath';
9781: { Distributes an array X[Lb..Ub] into statistical classes }
9782: { -----
9783:  Linear / polynomial regression
9784: ----- }
9785: procedure LinFit(X, Y : TVector;

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9786:           Lb, Ub : Integer;
9787:           B      : TVector;
9788:           V      : TMatrix); external 'dmath';
9789: { Linear regression : Y = B(0) + B(1) * X }
9790: procedure WLinFit(X, Y, S : TVector;
9791:           Lb, Ub : Integer;
9792:           B      : TVector;
9793:           V      : TMatrix); external 'dmath';
9794: { Weighted linear regression : Y = B(0) + B(1) * X }
9795: procedure SVDLinFit(X, Y : TVector;
9796:           Lb, Ub : Integer;
9797:           SVDTol : Float;
9798:           B      : TVector;
9799:           V      : TMatrix); external 'dmath';
9800: { Unweighted linear regression by singular value decomposition }
9801: procedure WSVDLinFit(X, Y, S : TVector;
9802:           Lb, Ub : Integer;
9803:           SVDTol : Float;
9804:           B      : TVector;
9805:           V      : TMatrix); external 'dmath';
9806: { Weighted linear regression by singular value decomposition }
9807: procedure MulFit(X      : TMatrix;
9808:           Y      : TVector;
9809:           Lb, Ub, Nvar : Integer;
9810:           ConstTerm : Boolean;
9811:           B      : TVector;
9812:           V      : TMatrix); external 'dmath';
9813: { Multiple linear regression by Gauss-Jordan method }
9814: procedure WMulFit(X      : TMatrix;
9815:           Y, S      : TVector;
9816:           Lb, Ub, Nvar : Integer;
9817:           ConstTerm : Boolean;
9818:           B      : TVector;
9819:           V      : TMatrix); external 'dmath';
9820: { Weighted multiple linear regression by Gauss-Jordan method }
9821: procedure SVDFit(X      : TMatrix;
9822:           Y      : TVector;
9823:           Lb, Ub, Nvar : Integer;
9824:           ConstTerm : Boolean;
9825:           SVDTol : Float;
9826:           B      : TVector;
9827:           V      : TMatrix); external 'dmath';
9828: { Multiple linear regression by singular value decomposition }
9829: procedure WSVDFit(X      : TMatrix;
9830:           Y, S      : TVector;
9831:           Lb, Ub, Nvar : Integer;
9832:           ConstTerm : Boolean;
9833:           SVDTol : Float;
9834:           B      : TVector;
9835:           V      : TMatrix); external 'dmath';
9836: { Weighted multiple linear regression by singular value decomposition }
9837: procedure PolFit(X, Y      : TVector;
9838:           Lb, Ub, Deg : Integer;
9839:           B      : TVector;
9840:           V      : TMatrix); external 'dmath';
9841: { Polynomial regression by Gauss-Jordan method }
9842: procedure WPolFit(X, Y, S      : TVector;
9843:           Lb, Ub, Deg : Integer;
9844:           B      : TVector;
9845:           V      : TMatrix); external 'dmath';
9846: { Weighted polynomial regression by Gauss-Jordan method }
9847: procedure SVDPolFit(X, Y      : TVector;
9848:           Lb, Ub, Deg : Integer;
9849:           SVDTol : Float;
9850:           B      : TVector;
9851:           V      : TMatrix); external 'dmath';
9852: { Unweighted polynomial regression by singular value decomposition }
9853: procedure WSVDPolFit(X, Y, S      : TVector;
9854:           Lb, Ub, Deg : Integer;
9855:           SVDTol : Float;
9856:           B      : TVector;
9857:           V      : TMatrix); external 'dmath';
9858: { Weighted polynomial regression by singular value decomposition }
9859: procedure RegTest(Y, Ycalc : TVector;
9860:           LbY, UbY : Integer;
9861:           V      : TMatrix;
9862:           LbV, UbV : Integer;
9863:           var Test : TRegTest); external 'dmath';
9864: { Test of unweighted regression }
9865: procedure WRegTest(Y, Ycalc, S : TVector;
9866:           LbY, UbY : Integer;
9867:           V      : TMatrix;
9868:           LbV, UbV : Integer;
9869:           var Test : TRegTest); external 'dmath';
9870: { Test of weighted regression }
9871: { -----
9872: Nonlinear regression
9873: ----- }
9874: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';

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9875: { Sets the optimization algorithm for nonlinear regression }
9876: function GetOptAlgo : TOptAlgo; external 'dmath';
9877: { Returns the optimization algorithm }
9878: procedure SetMaxParam(N : Byte); external 'dmath';
9879: { Sets the maximum number of regression parameters for nonlinear regression }
9880: function GetMaxParam : Byte; external 'dmath';
9881: { Returns the maximum number of regression parameters for nonlinear regression }
9882: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9883: { Sets the bounds on the I-th regression parameter }
9884: procedure GetParamBounds(I : Byte; var ParamMin, ParamMax:Float); external 'dmath';
9885: { Returns the bounds on the I-th regression parameter }
9886: procedure NLFit(RegFunc : TRegFunc;
9887:           DerivProc : TDerivProc;
9888:           X, Y : TVector;
9889:           Lb, Ub : Integer;
9890:           MaxIter : Integer;
9891:           Tol : Float;
9892:           B : TVector;
9893:           FirstPar,
9894:           LastPar : Integer;
9895:           V : TMatrix); external 'dmath';
9896: { Unweighted nonlinear regression }
9897: procedure WNLFit(RegFunc : TRegFunc;
9898:           DerivProc : TDerivProc;
9899:           X, Y, S : TVector;
9900:           Lb, Ub : Integer;
9901:           MaxIter : Integer;
9902:           Tol : Float;
9903:           B : TVector;
9904:           FirstPar,
9905:           LastPar : Integer;
9906:           V : TMatrix); external 'dmath';
9907: { Weighted nonlinear regression }
9908: procedure SetMCFile(FileName : String); external 'dmath';
9909: { Set file for saving MCMC simulations }
9910: procedure SimFit(RegFunc : TRegFunc;
9911:           X, Y : TVector;
9912:           Lb, Ub : Integer;
9913:           B : TVector;
9914:           FirstPar,
9915:           LastPar : Integer;
9916:           V : TMatrix); external 'dmath';
9917: { Simulation of unweighted nonlinear regression by MCMC }
9918: procedure WSimFit(RegFunc : TRegFunc;
9919:           X, Y, S : TVector;
9920:           Lb, Ub : Integer;
9921:           B : TVector;
9922:           FirstPar,
9923:           LastPar : Integer;
9924:           V : TMatrix); external 'dmath';
9925: { Simulation of weighted nonlinear regression by MCMC }
9926: { -----
9927: Nonlinear regression models
9928: ----- }

9929: procedure FracFit(X, Y : TVector;
9930:           Lb, Ub : Integer;
9931:           Deg1, Deg2 : Integer;
9932:           ConsTerm : Boolean;
9933:           MaxIter : Integer;
9934:           Tol : Float;
9935:           B : TVector;
9936:           V : TMatrix); external 'dmath';
9937: { Unweighted fit of rational fraction }
9938: procedure WFractFit(X, Y, S : TVector;
9939:           Lb, Ub : Integer;
9940:           Deg1, Deg2 : Integer;
9941:           ConsTerm : Boolean;
9942:           MaxIter : Integer;
9943:           Tol : Float;
9944:           B : TVector;
9945:           V : TMatrix); external 'dmath';
9946: { Weighted fit of rational fraction }
9947:
9948: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9949: { Returns the value of the rational fraction at point X }
9950: procedure ExpFit(X, Y : TVector;
9951:           Lb, Ub, Nexp : Integer;
9952:           ConsTerm : Boolean;
9953:           MaxIter : Integer;
9954:           Tol : Float;
9955:           B : TVector;
9956:           V : TMatrix); external 'dmath';
9957: { Unweighted fit of sum of exponentials }
9958: procedure WExpFit(X, Y, S : TVector;
9959:           Lb, Ub, Nexp : Integer;
9960:           ConsTerm : Boolean;
9961:           MaxIter : Integer;
9962:           Tol : Float;
9963:           B : TVector;

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9964:           V          : TMatrix); external 'dmath';
9965: { Weighted fit of sum of exponentials }
9966: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9967: { Returns the value of the regression function at point X }
9968: procedure IncExpFit(X, Y      : TVector;
9969:                         Lb, Ub   : Integer;
9970:                         ConsTerm : Boolean;
9971:                         MaxIter  : Integer;
9972:                         Tol      : Float;
9973:                         B        : TVector;
9974:                         V        : TMatrix); external 'dmath';
9975: { Unweighted fit of model of increasing exponential }
9976: procedure WIIncExpFit(X, Y, S : TVector;
9977:                         Lb, Ub   : Integer;
9978:                         ConsTerm : Boolean;
9979:                         MaxIter  : Integer;
9980:                         Tol      : Float;
9981:                         B        : TVector;
9982:                         V        : TMatrix); external 'dmath';
9983: { Weighted fit of increasing exponential }
9984: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9985: { Returns the value of the regression function at point X }
9986: procedure ExpLinFit(X, Y      : TVector;
9987:                         Lb, Ub   : Integer;
9988:                         MaxIter  : Integer;
9989:                         Tol      : Float;
9990:                         B        : TVector;
9991:                         V        : TMatrix); external 'dmath';
9992: { Unweighted fit of the "exponential + linear" model }
9993: procedure WExpLinFit(X, Y, S : TVector;
9994:                         Lb, Ub   : Integer;
9995:                         MaxIter  : Integer;
9996:                         Tol      : Float;
9997:                         B        : TVector;
9998:                         V        : TMatrix); external 'dmath';
9999: { Weighted fit of the "exponential + linear" model }
10000:
10001: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10002: { Returns the value of the regression function at point X }
10003: procedure MichFit(X, Y      : TVector;
10004:                         Lb, Ub   : Integer;
10005:                         MaxIter  : Integer;
10006:                         Tol      : Float;
10007:                         B        : TVector;
10008:                         V        : TMatrix); external 'dmath';
10009: { Unweighted fit of Michaelis equation }
10010: procedure WMichFit(X, Y, S : TVector;
10011:                         Lb, Ub   : Integer;
10012:                         MaxIter  : Integer;
10013:                         Tol      : Float;
10014:                         B        : TVector;
10015:                         V        : TMatrix); external 'dmath';
10016: { Weighted fit of Michaelis equation }
10017: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10018: { Returns the value of the Michaelis equation at point X }
10019: procedure MintFit(X, Y      : TVector;
10020:                         Lb, Ub   : Integer;
10021:                         MintVar  : TMintVar;
10022:                         Fit_S0   : Boolean;
10023:                         MaxIter  : Integer;
10024:                         Tol      : Float;
10025:                         B        : TVector;
10026:                         V        : TMatrix); external 'dmath';
10027: { Unweighted fit of the integrated Michaelis equation }
10028: procedure WMintFit(X, Y, S : TVector;
10029:                         Lb, Ub   : Integer;
10030:                         MintVar  : TMintVar;
10031:                         Fit_S0   : Boolean;
10032:                         MaxIter  : Integer;
10033:                         Tol      : Float;
10034:                         B        : TVector;
10035:                         V        : TMatrix); external 'dmath';
10036: { Weighted fit of the integrated Michaelis equation }
10037: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10038: { Returns the value of the integrated Michaelis equation at point X }
10039: procedure HillFit(X, Y      : TVector;
10040:                         Lb, Ub   : Integer;
10041:                         MaxIter  : Integer;
10042:                         Tol      : Float;
10043:                         B        : TVector;
10044:                         V        : TMatrix); external 'dmath';
10045: { Unweighted fit of Hill equation }
10046: procedure WHillFit(X, Y, S : TVector;
10047:                         Lb, Ub   : Integer;
10048:                         MaxIter  : Integer;
10049:                         Tol      : Float;
10050:                         B        : TVector;
10051:                         V        : TMatrix); external 'dmath';
10052: { Weighted fit of Hill equation }

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10053: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10054: { Returns the value of the Hill equation at point X }
10055: procedure LogiFit(X, Y : TVector;
10056:                      Lb, Ub : Integer;
10057:                      ConsTerm : Boolean;
10058:                      General : Boolean;
10059:                      MaxIter : Integer;
10060:                      Tol : Float;
10061:                      B : TVector;
10062:                      V : TMatrix); external 'dmath';
10063: { Unweighted fit of logistic function }
10064: procedure WLogiFit(X, Y, S : TVector;
10065:                      Lb, Ub : Integer;
10066:                      ConsTerm : Boolean;
10067:                      General : Boolean;
10068:                      MaxIter : Integer;
10069:                      Tol : Float;
10070:                      B : TVector;
10071:                      V : TMatrix); external 'dmath';
10072: { Weighted fit of logistic function }
10073: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10074: { Returns the value of the logistic function at point X }
10075: procedure PKFit(X, Y : TVector;
10076:                      Lb, Ub : Integer;
10077:                      MaxIter : Integer;
10078:                      Tol : Float;
10079:                      B : TVector;
10080:                      V : TMatrix); external 'dmath';
10081: { Unweighted fit of the acid-base titration curve }
10082: procedure WPKFit(X, Y, S : TVector;
10083:                      Lb, Ub : Integer;
10084:                      MaxIter : Integer;
10085:                      Tol : Float;
10086:                      B : TVector;
10087:                      V : TMatrix); external 'dmath';
10088: { Weighted fit of the acid-base titration curve }
10089: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10090: { Returns the value of the acid-base titration function at point X }
10091: procedure PowFit(X, Y : TVector;
10092:                      Lb, Ub : Integer;
10093:                      MaxIter : Integer;
10094:                      Tol : Float;
10095:                      B : TVector;
10096:                      V : TMatrix); external 'dmath';
10097: { Unweighted fit of power function }
10098: procedure WPowFit(X, Y, S : TVector;
10099:                      Lb, Ub : Integer;
10100:                     MaxIter : Integer;
10101:                     Tol : Float;
10102:                     B : TVector;
10103:                     V : TMatrix); external 'dmath';
10104: { Weighted fit of power function }
10105:
10106: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10107: { Returns the value of the power function at point X }
10108: procedure GammaFit(X, Y : TVector;
10109:                      Lb, Ub : Integer;
10110:                     MaxIter : Integer;
10111:                     Tol : Float;
10112:                     B : TVector;
10113:                     V : TMatrix); external 'dmath';
10114: { Unweighted fit of gamma distribution function }
10115: procedure WGammaFit(X, Y, S : TVector;
10116:                      Lb, Ub : Integer;
10117:                      MaxIter : Integer;
10118:                      Tol : Float;
10119:                      B : TVector;
10120:                      V : TMatrix); external 'dmath';
10121: { Weighted fit of gamma distribution function }
10122: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10123: { Returns the value of the gamma distribution function at point X }
10124: { -----
10125:   Principal component analysis
10126:   ----- }
10127: procedure VecMean(X : TMatrix;
10128:                      Lb, Ub, Nvar : Integer;
10129:                      M : TVector); external 'dmath';
10130: { Computes the mean vector M from matrix X }
10131: procedure VecSD(X : TMatrix;
10132:                      Lb, Ub, Nvar : Integer;
10133:                      M, S : TVector); external 'dmath';
10134: { Computes the vector of standard deviations S from matrix X }
10135: procedure MatVarCov(X : TMatrix;
10136:                      Lb, Ub, Nvar : Integer;
10137:                      M : TVector;
10138:                      V : TMatrix); external 'dmath';
10139: { Computes the variance-covariance matrix V from matrix X }
10140: procedure MatCorrel(V : TMatrix;
10141:                      Nvar : Integer;

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10142:           R : TMatrix); external 'dmath';
10143: { Computes the correlation matrix R from the var-cov matrix V }
10144: procedure PCA(R : TMatrix;
10145:                   Nvar : Integer;
10146:                   Lambda : TVector;
10147:                   C, Rc : TMatrix); external 'dmath';
10148: { Performs a principal component analysis of the correlation matrix R }
10149: procedure ScaleVar(X : TMatrix;
10150:                       Lb, Ub, Nvar : Integer;
10151:                       M, S : TVector;
10152:                       Z : TMatrix); external 'dmath';
10153: { Scales a set of variables by subtracting means and dividing by SD's }
10154: procedure PrinFac(Z : TMatrix;
10155:                       Lb, Ub, Nvar : Integer;
10156:                       C, F : TMatrix); external 'dmath';
10157: { Computes principal factors }
10158: { -----
10159:   Strings
10160: ----- }
10161: function LTrim(S : String) : String; external 'dmath';
10162: { Removes leading blanks }
10163: function RTrim(S : String) : String; external 'dmath';
10164: { Removes trailing blanks }
10165: function Trim(S : String) : String; external 'dmath';
10166: { Removes leading and trailing blanks }
10167: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10168: { Returns a string made of character C repeated N times }
10169: function RFill(S : String; L : Byte) : String; external 'dmath';
10170: { Completes string S with trailing blanks for a total length L }
10171: function LFill(S : String; L : Byte) : String; external 'dmath';
10172: { Completes string S with leading blanks for a total length L }
10173: function CFill(S : String; L : Byte) : String; external 'dmath';
10174: { Centers string S on a total length L }
10175: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10176: { Replaces in string S all the occurrences of C1 by C2 }
10177: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10178: { Extracts a field from a string }
10179: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10180: { Parses a string into its constitutive fields }
10181: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10182: { Sets the numeric format }
10183: function FloatToStr(X : Float) : String; external 'dmath';
10184: { Converts a real to a string according to the numeric format }
10185: function IntStr(N : LongInt) : String; external 'dmath';
10186: { Converts an integer to a string }
10187: function CompStr(Z : Complex) : String; external 'dmath';
10188: { Converts a complex number to a string }
10189: {$IFDEF DELPHI}
10190: function StrDec(S : String) : String; external 'dmath';
10191: { Set decimal separator to the symbol defined in SysUtils }
10192: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10193: { Test if a string represents a number and returns it in X }
10194: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10195: { Reads a floating point number from an Edit control }
10196: procedure WriteNumToText(var F : Text; X : Float); external 'dmath';
10197: { Writes a floating point number in a text file }
10198: {$ENDIF}
10199: { -----
10200:   BGI / Delphi graphics
10201: ----- }
10202: function InitGraphics
10203: {$IFDEF DELPHI}
10204: (Width, Height : Integer) : Boolean;
10205: {$ELSE}
10206: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10207: { Enters graphic mode }
10208: procedure SetWindow( {$IFDEF DELPHI}Canvas : TCanvas; {$ENDIF}
10209:                         X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10210: { Sets the graphic window }
10211: procedure SetOxScale(Scale : TScale;
10212:                         OxMin, OxMax, OxStep : Float); external 'dmath';
10213: { Sets the scale on the Ox axis }
10214: procedure SetOyScale(Scale : TScale;
10215:                         OyMin, OyMax, OyStep : Float); external 'dmath';
10216: { Sets the scale on the Oy axis }
10217: procedure GetOxScale(var Scale : TScale;
10218:                         var OxMin, OxMax, OxStep : Float); external 'dmath';
10219: { Returns the scale on the Ox axis }
10220: procedure GetOyScale(var Scale : TScale;
10221:                         var OyMin, OyMax, OyStep : Float); external 'dmath';
10222: { Returns the scale on the Oy axis }
10223: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10224: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10225: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10226: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10227: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10228: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10229: {$IFNDEF DELPHI}
10230: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';

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10231: { Sets the font for the main graph title }
10232: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10233: { Sets the font for the Ox axis (title and labels) }
10234: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10235: { Sets the font for the Oy axis (title and labels) }
10236: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10237: { Sets the font for the legends }
10238: procedure SetClipping(Clip : Boolean); external 'dmath';
10239: { Determines whether drawings are clipped at the current viewport
10240:   boundaries, according to the value of the Boolean parameter Clip }
10241: {$ENDIF}
10242: procedure PlotOxAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10243: { Plots the horizontal axis }
10244: procedure PlotOyAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10245: { Plots the vertical axis }
10246: procedure PlotGrid{$IFDEF DELPHI}(Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10247: { Plots a grid on the graph }
10248: procedure WriteGraphTitle{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10249: { Writes the title of the graph }
10250: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10251: { Sets the maximum number of curves and re-initializes their parameters }
10252: procedure SetPointParam
10253: {$IFDEF DELPHI}
10254: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10255: {$ELSE}
10256: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10257: { Sets the point parameters for curve # CurvIndex }
10258: procedure SetLineParam
10259: {$IFDEF DELPHI}
10260: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10261: {$ELSE}
10262: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10263: { Sets the line parameters for curve # CurvIndex }
10264: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10265: { Sets the legend for curve # CurvIndex }
10266: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10267: { Sets the step for curve # CurvIndex }
10268: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10269: procedure GetPointParam
10270: {$IFDEF DELPHI}
10271: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10272: {$ELSE}
10273: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10274: { Returns the point parameters for curve # CurvIndex }
10275: procedure GetLineParam
10276: {$IFDEF DELPHI}
10277: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10278: {$ELSE}
10279: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10280: { Returns the line parameters for curve # CurvIndex }
10281: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10282: { Returns the legend for curve # CurvIndex }
10283: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10284: { Returns the step for curve # CurvIndex }
10285: {$IFDEF DELPHI}
10286: procedure PlotPoint(Canvas : TCanvas;
10287:                         X, Y : Float; CurvIndex : Integer); external 'dmath';
10288: {$ELSE}
10289: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10290: {$ENDIF}
10291: { Plots a point on the screen }
10292: procedure PlotCurve{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10293:                               X, Y : TVector;
10294:                               Lb, Ub, CurvIndex : Integer); external 'dmath';
10295: { Plots a curve }
10296: procedure PlotCurveWithErrorBars{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10297:                               X, Y, S : TVector;
10298:                               Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10299: { Plots a curve with error bars }
10300: procedure PlotFunc{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10301:                               Func : TFunc;
10302:                               Xmin, Xmax : Float;
10303:                               {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10304:                               CurvIndex : Integer); external 'dmath';
10305: { Plots a function }
10306: procedure WriteLegend{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10307:                               NCurv : Integer;
10308:                               ShowPoints, ShowLines : Boolean); external 'dmath';
10309: { Writes the legends for the plotted curves }
10310: procedure ConRec{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10311:                               Nx, Ny, Nc : Integer;
10312:                               X, Y, Z : TVector;
10313:                               F : TMatrix); external 'dmath';
10314: { Contour plot }
10315: function Xpixel(X : Float):Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10316: function Ypixel(Y : Float):Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10317: function Xuser(X : Integer):Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10318: function Yuser(Y : Integer):Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10319: {$IFNDEF DELPHI}
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10320: procedure LeaveGraphics; external 'dmath';
10321: { Quits graphic mode }
10322: {$ENDIF}
10323: {
-----+
10324:   LaTeX graphics
10325: -----+
10326: function TeX_InitGraphics(FileName      : String; PgWidth, PgHeight : Integer;
10327:                           Header       : Boolean) : Boolean; external 'dmath';
10328: { Initializes the LaTeX file }
10329: procedure TeX_SetWindow(X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10330: { Sets the graphic window }
10331: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10332: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10333: { Sets the scale on the Ox axis }
10334: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10335: { Sets the scale on the Oy axis }
10336: procedure TeX_SetGraphTitle(Title : String); external 'dmath'; { Sets the title for the graph }
10337: procedure TeX_SetOxTitle(Title : String); external 'dmath'; { Sets the title for the Ox axis }
10338: procedure TeX_SetOyTitle(Title : String); external 'dmath'; { Sets the title for the Oy axis }
10339: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10340: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10341: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10342: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph
10343: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10344: { Sets the maximum number of curves and re-initializes their parameters }
10345: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10346: { Sets the point parameters for curve # CurvIndex }
10347: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10348:                               Width : Float; Smooth : Boolean); external 'dmath';
10349: { Sets the line parameters for curve # CurvIndex }
10350: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10351: { Sets the legend for curve # CurvIndex }
10352: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10353: { Sets the step for curve # CurvIndex }
10354: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10355: { Plots a curve }
10356: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10357:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10358: { Plots a curve with error bars }
10359: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10360:                          Npt : Integer; CurvIndex : Integer); external 'dmath';
10361: { Plots a function }
10362: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10363: { Writes the legends for the plotted curves }
10364: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10365: { Contour plot }
10366: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10367: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10368:
10369: //*****unit uPSI_SynPdf;
10370: Function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10371: Function _DateToString( ADate : TDate ) : TPdfDate
10372: Function _PDFDateToDate( const AText : TPdfDate ) : TDate
10373: Function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10374: Function PdfRect1( const Box : TPdfBox ) : TPdfRect;
10375: Function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10376: //Function _GetCharCount( Text : PAnsiChar ) : integer
10377: //Procedure L2R( W : PWideChar; L : integer )
10378: Function PdfCoord( MM : single ) : integer
10379: Function CurrentPrinterPageSize : TPDFPaperSize
10380: Function CurrentPrinterRes : TPoint
10381: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10382: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10383: Procedure GDICommentLink( MetaHandle:HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10384: Const('Usp10','String 'usp10.dll
10385: AddTypes('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10386: 'fcharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10387: AddTypes('TScriptState_set', 'set of TScriptState_enum
10388: //*****+
10389:
10390: procedure SIRegister_PMrand(CL: TPSpascalCompiler); //ParkMiller
10391: begin
10392:   Procedure PMrandomize( I : word)
10393:   Function PMrandom : longint
10394:   Function Rrand : extended
10395:   Function Irand( N : word ) : word
10396:   Function Brand( P : extended ) : boolean
10397:   Function Nrand : extended
10398: end;
10399:
10400: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSpascalCompiler);
10401: begin
10402:   Function Endian( x : LongWord ) : LongWord
10403:   Function Endian64( x : Int64 ) : Int64
10404:   Function spRol( x : LongWord; y : Byte ) : LongWord
10405:   Function spRor( x : LongWord; y : Byte ) : LongWord
10406:   Function Ror64( x : Int64; y : Byte ) : Int64
10407: end;
10408:

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10409: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10410: begin
10411:   Procedure ClearModules
10412:   Procedure ReadMapFile( Fname : string )
10413:   Function AddressInfo( Address : dword ) : string
10414: end;
10415:
10416: procedure SIRegister_LibTar(CL: TPSPascalCompiler);
10417: begin
10418:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwn'
10419:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWri'
10420:   +'teByOther, tpExecuteByOther )
10421:   TTarPermissions', 'set of TTarPermission
10422:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10423:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader'
10424:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10425:   TTarModes', 'set of TTarMode
10426:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDa'
10427:   +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10428:   +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING; '
10429:   +' ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10430:   +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10431:   SIRegister_TTarArchive(CL);
10432:   SIRegister_TTarWriter(CL);
10433:   Function PermissionString( Permissions : TTarPermissions ) : STRING
10434:   Function ConvertFilename( Filename : STRING ) : STRING
10435:   Function FileTimeGMT( FileName : STRING ) : TDateTime;
10436:   Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10437:   Procedure ClearDirRec( var DirRec : TTarDirRec )
10438: end;
10439:
10440:
10441: //*****unit uPSI_TlHelp32;
10442: procedure SIRegister_TlHelp32(CL: TPSPascalCompiler);
10443: begin
10444:   Const('MAX_MODULE_NAME32','LongInt'( 255 );
10445:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD ) : THandle
10446:   Const('TH32CS_SNAPHEAPLIST','LongWord( $00000001 );
10447:   Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002 );
10448:   Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004 );
10449:   Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008 );
10450:   Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000 );
10451:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10452:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10453:   AddTypeS('THeapList32', 'tagHEAPLIST32
10454:   Const('HF32_DEFAULT','LongInt'( 1 );
10455:   Const('HF32_SHARED','LongInt'( 2 );
10456:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10457:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10458:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10459:   +'ress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10460:   +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10461:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10462:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10463:   Const('LF32_FIXED','LongWord').SetUInt( $00000001 );
10464:   Const('LF32_FREE','LongWord').SetUInt( $00000002 );
10465:   Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004 );
10466:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD ) : BOOL
10467:   Function Heap32Next( var lphe : THeapEntry32 ) : BOOL
10468:   DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10469:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10470:   +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10471:   +'aPri : Longint; dwFlags : DWORD; end
10472:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10473:   AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10474:   Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10475:   Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10476: end;
10477: Const('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10478: Const('EW_REBOOTSYSTEM','LongWord( $0043 );
10479: Const('EW_EXITANDEXECAPP','LongWord( $0044 );
10480: Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ) );
10481: Const('EWX_LOGOFF','LongInt'( 0 );
10482: Const('EWX_SHUTDOWN','LongInt'( 1 );
10483: Const('EWX_REBOOT','LongInt'( 2 );
10484: Const('EWX_FORCE','LongInt'( 4 );
10485: Const('EWX_POWEROFF','LongInt'( 8 );
10486: Const('EWX_FORCEIFHUNG','LongWord').SetUInt( $10 );
10487: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10488: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10489: Function GET_MOUSEORKEY_LPARAM( const lParam : LongInt ) : Word
10490: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10491: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10492: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10493: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10494: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10495: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10496: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10497: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word

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10498: Function GetClassLong( hWnd : HWND; nIndex : Integer) : DWORD
10499: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint) : DWORD
10500: Function GetDesktopWindow : HWND
10501: Function GetParent( hWnd : HWND) : HWND
10502: Function.SetParent( hWndChild, hWndNewParent : HWND) : HWND
10503: Function GetTopWindow( hWnd : HWND) : HWND
10504: Function GetNextWindow( hWnd : HWND; uCmd : UINT) : HWND
10505: Function GetWindow( hWnd : HWND; uCmd : UINT) : HWND
10506: //Delphi DFM
10507: Function LoadDFMFile2Strings( const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10508: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string) : integer
10509: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10510: function GetHighlightersFilter(AHighlighters: TStringList): string;
10511: function GetHighlighterFromfileExt(AHighlighters: TStringList; Extension: string):TSynCustomHighlighter;
10512: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL) : BOOL
10513: Function OpenIcon( hWnd : HWND) : BOOL
10514: Function CloseWindow( hWnd : HWND) : BOOL
10515: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL) : BOOL
10516: Function SetWindowPos(hWnd: HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UInt) : BOOL
10517: Function IsWindowVisible( hWnd : HWND) : BOOL
10518: Function IsIconic( hWnd : HWND) : BOOL
10519: Function AnyPopup : BOOL
10520: Function BringWindowToFront( hWnd : HWND) : BOOL
10521: Function IsZoomed( hWnd : HWND) : BOOL
10522: Function IsWindow( hWnd : HWND) : BOOL
10523: Function IsMenu( hMenu : HMENU) : BOOL
10524: Function IsChild( hWndParent, hWnd : HWND) : BOOL
10525: Function DestroyWindow( hWnd : HWND) : BOOL
10526: Function ShowWindow( hWnd : HWND; nCmdShow : Integer) : BOOL
10527: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD) : BOOL
10528: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer) : BOOL
10529: Function FlashWindow( hWnd : HWND; bInvert : BOOL) : BOOL
10530: Function IsWindowUnicode( hWnd : HWND) : BOOL
10531: Function EnableWindow( hWnd : HWND; bEnable : BOOL) : BOOL
10532: Function IsWindowEnabled( hWnd : HWND) : BOOL
10533:
10534: procedure SIRегистre_IDECmdLine(CL: TPPascalCompiler);
10535: begin
10536:   const ('ShowSetupDialogOptLong','String '--setup
10537:   PrimaryConfPathOptLong','String '--primary-config-path=
10538:   PrimaryConfPathOptShort','String '--pcp=
10539:   SecondaryConfPathOptLong','String '--secondary-config-path=
10540:   SecondaryConfPathOptShort','String '--scp=
10541:   NoSplashScreenOptLong','String '--no-splash-screen
10542:   NoSplashScreenOptShort','String '--nsc
10543:   StartedByStartLazarusOpt','String '--started-by-startlazarus
10544:   SkipLastProjectOpt','String '--skip-last-project
10545:   DebugLogOpt','String '--debug-log=
10546:   DebugLogOptEnable','String '--debug-enable=
10547:   LanguageOpt','String '--language=
10548:   LazarusDirOpt','String '--lazarusdir=
10549:   Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10550:   Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean) : string
10551:   Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings) : string
10552:   Function IsHelpRequested : Boolean
10553:   Function IsVersionRequested : boolean
10554:   Function GetLanguageSpecified : string
10555:   Function ParamIsOption( ParamIndex : integer; const Option : string) : boolean
10556:   Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10557:   Procedure ParseNoGuiCmdlineParams
10558:   Function ExtractCmdLineFilenames : TStrings
10559: end;
10560:
10561:
10562: procedure SIRегистre_LazFileUtils(CL: TPPascalCompiler);
10563: begin
10564:   Function CompareFilenames( const Filenam1, Filenam2 : string) : integer
10565:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string) : integer
10566:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean) : integer;
10567:   Function CompareFileExt1( const Filenam, Ext : string) : integer;
10568:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string) : integer
10569:   Function CompareFilenames(Filenam1:PChar;Len1:integer; Filenam2:PChar;Len2:integer):integer
10570:   Function CompareFilenamesP( Filenam1, Filenam2 : PChar; IgnoreCase : boolean) : integer
10571:   Function DirPathExists( DirectoryName : string) : boolean
10572:   Function DirectoryIsWritable( const DirectoryName : string) : boolean
10573:   Function ExtractFileNameOnly( const AFilename : string) : string
10574:   Function FilenameIsAbsolute( const Thefilename : string) : boolean
10575:   Function FilenameIsWinAbsolute( const Thefilename : string) : boolean
10576:   Function FilenameIsUnixAbsolute( const Thefilename : string) : boolean
10577:   Function ForceDirectory( DirectoryName : string) : boolean
10578:   Procedure CheckIfFileIsExecutable( const AFilename : string)
10579:   Procedure CheckIfFileIsSymlink( const AFilename : string)
10580:   Function FileIsText( const AFilename : string) : boolean
10581:   Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10582:   Function FilenameIsTrimmed( const Thefilename : string) : boolean
10583:   Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10584:   Function TrimFilename( const AFilename : string) : string
10585:   Function ResolveDots( const AFilename : string) : string
10586:   Procedure ForcePathDelims( var FileName : string)

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10587: Function GetForcedPathDelims( const FileName : string ) : String
10588: Function CleanAndExpandFilename( const Filename : string ) : string
10589: Function CleanAndExpandDirectory( const Filename : string ) : string
10590: Function TrimAndExpandfilename( const Filename : string; const BaseDir : string ) : string
10591: Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string ) : string
10592: Function TryCreateRelativePath( const Dest, Source: String; UsePointDirectory:bool;
    AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String ) : Boolean
10593: Function CreateRelativePath( const Filename, BaseDirectory:string; UsePointDirectory:boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
10594: Function FileIsInPath( const Filename, Path : string ) : boolean
10595: Function AppendPathDelim( const Path : string ) : string
10596: Function ChompPathDelim( const Path : string ) : string
10597: Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
10598: Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string ) : string
10599: Function MinimizeSearchPath( const SearchPath : string ) : string
10600: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
    (*Function FileExistsUTF8( const FileName : string ) : boolean
10601: Function FileAgeUTF8( const FileName : string ) : Longint
10602: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string ) : string
10603: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
10604: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10605: Function FindNextUTF8( var Rslt : TSearchRec ) : Longint
10606: Function FindCloseUTF8( var F : TSearchrec )
10607: Procedure FindCloseUTF8( var F : TSearchrec )
10608: Function FileSetDateUTF8( const FileName : String; Age : Longint ) : Longint
10609: Function FileGetAttrUTF8( const FileName : String ) : Longint
10610: Function FileSetAttrUTF8( const Filename : String; Attr : longint ) : Longint
10611: Function DeleteFileUTF8( const FileName : String ) : Boolean
10612: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
10613: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
10614: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
10615: Function GetCurrentDirUTF8 : String
10616: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean
10617: Function CreateDirUTF8( const NewDir : String ) : Boolean
10618: Function RemoveDirUTF8( const Dir : String ) : Boolean
10619: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean
10620: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
10621: Function FileCreateUTF8( const FileName : string ) : THandle;
10622: Function FileCreateUTF81( const FileName : string; Rights : Cardinal ) : THandle;
10623: Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal ) : THandle;
10624: Function FileSizeUtf8( const Filename : string ) : int64
10625: Function GetFileDescription( const Afilename : string ) : string
10626: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
10627: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean ) : string
10628: Function GetTempFileNameUTF8( const Dir, Prefix : String ) : String*)
10629: Function IsUNCPath( const Path : String ) : Boolean
10630: Function ExtractUNCVolume( const Path : String ) : String
10631: Function ExtractFileRoot( FileName : String ) : String
10632: Function GetDarwinSystemFilename( Filename : string ) : string
10633: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean )
10634: Function StrToCmdlineParam( const Param : string ) : string
10635: Function MergeCmdlineParams( ParamList : TStrings ) : string
10636: Procedure InvalidateFileStateCache( const Filename : string )
10637: Function FindAllFiles( const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10638: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
10639: Function FindAllDocs( const Root, extmask: string): TStringlist;
10640: Function ReadfileToString( const filename : string ) : string
10641: procedure Incl(var X: longint; N: Longint);
10642:
10643: type
10644:   TCopyFileFlag = ( cffOverwriteFile,
10645:     cffCreateDestDirectory, cffPreserveTime );
10646:   TCopyFileFlags = set of TCopyFileFlag;*)
10647:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10648:   TCopyFileFlags', 'set of TCopyFileFlag
10649:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags ) : Boolean
10650: end;
10651:
10652: procedure SIRegister_lazMasks(CL: TPSPascalCompiler);
10653: begin
10654:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10655:   SIRegister_TMask(CL);
10656:   SIRegister_TParseStringList(CL);
10657:   SIRegister_TMaskList(CL);
10658:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Boolean
10659:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Bool;
10660:   Function MatchesMaskList( const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10661:   Function MatchesWindowsMaskList( const FileName,Mask:String;Separat:Char;const CaseSensitive:Bool):Bool;
10662: end;
10663:
10664: procedure SIRegister_JvShellHook(CL: TPSPascalCompiler);
10665: begin
10666:   //PShellHookInfo', '^TShellHookInfo // will not work
10667:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10668:   SHELLHOOKINFO', 'TShellHookInfo
10669:   LPSHELLHOOKINFO', 'PShellHookInfo
10670:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10671:   SIRegister_TJvShellHook(CL);
10672:   Function InitJvShellHooks : Boolean
10673:   Procedure UnInitJvShellHooks

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10674: end;
10675:
10676: procedure SIRegister_JvExControls(CL: TPSPascalCompiler);
10677: begin
10678:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10679:   +', dcHasSelSel, dcWantTab, dcNative )
10680:   TDlgCodes', 'set of TDlgCode
10681:   'dcWantMessage', ' dcWantAllKeys);
10682:   SIRegister_IJvExControl(CL);
10683:   SIRegister_IJvDenySubClassing(CL);
10684:   SIRegister_TStructPtrMessage(CL);
10685:   Procedure SetDotNetBarColors( FocusedColor, UnfocusedColor : TColor)
10686:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10687:   Procedure DrawDotNetBar( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10688:   Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10689:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10690:   Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10691:   Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10692:   Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10693:   Function GetFocusedControl( AControl : TControl ) : TWinControl
10694:   Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10695:   Function DlgCodesToDlgc( Value : TDlgCodes ) : Longint
10696:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10697:   Function DispatchchisDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10698:   SIRegister_TJvExControl(CL);
10699:   SIRegister_TJvExWinControl(CL);
10700:   SIRegister_TJvExCustomControl(CL);
10701:   SIRegister_TJvExGraphicControl(CL);
10702:   SIRegister_TJvExHintWindow(CL);
10703:   SIRegister_TJvExPubGraphicControl(CL);
10704: end;
10705:
10706: (*-----*)
10707: procedure SIRegister_EncdDecd(CL: TPSPascalCompiler);
10708: begin
10709:   Procedure EncodeStream( Input, Output : TStream)
10710:   Procedure DecodeStream( Input, Output : TStream)
10711:   Function EncodeString1( const Input : string ) : string
10712:   Function DecodeString1( const Input : string ) : string
10713: end;
10714:
10715: (*-----*)
10716: procedure SIRegister_SockAppReg(CL: TPSPascalCompiler);
10717: begin
10718:   SIRegister_TWebAppRegInfo(CL);
10719:   SIRegister_TWebAppRegList(CL);
10720:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10721:   Procedure RegisterWebApp( const AFilename, AProgID : string)
10722:   Procedure UnregisterWebApp( const AProgID : string)
10723:   Function FindRegisteredWebApp( const AProgID : string ) : string
10724:   Function CreateRegistry( InitializeNewFile : Boolean ) : TCustomIniFile
10725:   'sUDPPort','String 'UDPPort
10726: end;
10727:
10728: procedure SIRegister_PJEnvVars(CL: TPSPascalCompiler);
10729: begin
10730:   // TStringDynArray', 'array of string
10731:   Function GetEnvVarValue( const VarName : string ) : string
10732:   Function SetEnvVarValue( const VarName, VarValue : string ) : Integer
10733:   Function DeleteEnvVar( const VarName : string ) : Integer
10734:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const BufSize:Int );
10735:   Function ExpandEnvVars( const Str : string ) : string
10736:   Function GetAllEnvVars( const Vars : TStrings ) : Integer
10737:   Procedure GetAllEnvVarNames( const Names : TStrings );
10738:   Function GetAllEnvVarNames1 : TStringDynArray;
10739:   Function EnvBlockSize : Integer
10740:   TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject)
10741:   SIRegister_TPJEnvVarsEnumerator(CL);
10742:   SIRegister_TPJEnvVars(CL);
10743:   FindClass('TOBJECT'), 'EPJEnvVars
10744:   FindClass('TOBJECT'), 'EPJEnvVars
10745:   //Procedure Register
10746: end;
10747:
10748: (*-----*)
10749: procedure SIRegister_PJConsoleApp(CL: TPSPascalCompiler);
10750: begin
10751:   'cOneSecInMS','LongInt'( 1000);
10752:   // 'cDefTimeSlice','LongInt'( 50);
10753:   // 'cDefMaxExecTime',' cOneMinInMS';
10754:   'cAppErrorMask','LongInt'( 1 shl 29);
10755:   Function IsApplicationError( const ErrCode : LongWord ) : Boolean
10756:   TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10757:   TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10758:   Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor ):TPJConsoleColors;
10759:   Function MakeConsoleColors1( const AForeground, ABackground : TColor ) : TPJConsoleColors;
10760:   Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor ) : TPJConsoleColors;
10761:   Function MakeSize( const ACX, ACY : LongInt ) : TSize

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10762:   SIRегистер_TPJCustomConsoleApp(CL);
10763:   SIRегистер_TPJConsoleApp(CL);
10764: end;
10765;
10766: procedure SIRегистер_ip_misc(CL: TPSPascalCompiler);
10767: begin
10768:   INVALID_IP_ADDRESS', 'LongWord').SetUInt( $ffffffff );
10769:   t_encoding', '( uuencode, base64, mime )'
10770:   Function internet_date( date : TDateTime ) : string
10771:   Function lookup_hostname( const hostname : string ) : longint
10772:   Function my_hostname : string
10773:   Function my_ip_address : longint
10774:   Function ip2string( ip_address : longint ) : string
10775:   Function resolve_hostname( ip : longint ) : string
10776:   Function address_from( const s : string; count : integer ) : string
10777:   Function encode_base64( data : TStream ) : TStringList
10778:   Function decode_base64( source : TStringList ) : TMemoryStream
10779:   Function posn( const s, t : string; count : integer ) : integer
10780:   Function poscn( c : char; const s : string; n : integer ) : integer
10781:   Function filename_of( const s : string ) : string
10782: //Function trim( const s : string ) : string
10783: //Procedure setlength( var s : string; l : byte )
10784: Function TimeZoneBias : longint
10785: Function eight2seven_quoteprint( const s : string ) : string
10786: Function eight2seven_german( const s : string ) : string
10787: Function seven2eight_quoteprint( const s : string ) : string end;
10788: type in_addr, 'record s_bytes : array[1..4] of byte; end';
10789: Function socketerror : cint
10790: Function fpsocket( domain : cint; xtype : cint; protocol : cint ) : cint
10791: Function frecv( s : cint; buf : __pointer; len : size_t; flags : cint ) : ssize_t
10792: Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint ) : ssize_t
10793: //Function fbind( s : cint; addrx : psockaddr; addrlen : tsocklen ) : cint
10794: Function fplisten( s : cint; backlog : cint ) : cint
10795: //Function faccept( s : cint; addrx : psockaddr; addrlen : plongint ) : cint
10796: //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen ) : cint
10797: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen ) : cint
10798: Function NetAddrToStr( Entry : in_addr ) : String
10799: Function HostAddrToStr( Entry : in_addr ) : String
10800: Function StrToHostAddr( IP : String ) : in_addr
10801: Function StrToNetAddr( IP : String ) : in_addr
10802: SOL_SOCKET', 'LongWord').SetUInt( $ffff );
10803:   cint8', 'shortint
10804:   cuint8', 'byte
10805:   cchar', 'cint8
10806:   cschar', 'cint8
10807:   uchar', 'cuint8
10808:   cint16', 'smallint
10809:   cuint16', 'word
10810:   cshort', 'cint16
10811:   csshort', 'cint16
10812:   cushort', 'cuint16
10813:   cint32', 'longint
10814:   cuint32', 'longword
10815:   cint', 'cint32
10816:   csint', 'cint32
10817:   cuint', 'cuint32
10818:   csigned', 'cint
10819:   cunsigned', 'cuint
10820:   cint64', 'int64
10821:   clonglong', 'cint64
10822:   cslonglong', 'cint64
10823:   cbool', 'longbool
10824:   cfloat', 'single
10825:   cdouble', 'double
10826:   clongdouble', 'extended
10827;
10828: procedure SIRегистер_uLkJSON(CL: TPSPascalCompiler);
10829: begin
10830:   TlkJSONTypes', '(jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10831:   SIRегистер_TlkJSONdotnetclass(CL);
10832:   SIRегистер_TlkJSONbase(CL);
10833:   SIRегистер_TlkJSONnumber(CL);
10834:   SIRегистер_TlkJSONstring(CL);
10835:   SIRегистер_TlkJSONboolean(CL);
10836:   SIRегистер_TlkJSONnull(CL);
10837:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Elem : TlkJSONba'
10838:   +'se; data : TObject; var Continue : Boolean)
10839:   SIRегистер_TlkJSONcustomlist(CL);
10840:   SIRегистер_TlkJSONlist(CL);
10841:   SIRегистер_TlkJSONobjectmethod(CL);
10842:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10843:   TlkHashFunction', 'Function ( const ws : WideString ) : cardinal
10844:   SIRегистер_TlkHashTable(CL);
10845:   SIRегистер_TlkBalTree(CL);
10846:   SIRегистер_TlkJSONobject(CL);
10847:   SIRегистер_TlkJSON(CL);
10848:   SIRегистер_TlkJSONstreamed(CL);
10849:   Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10850: end;

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10851:
10852: procedure SIRegister_ZSysUtils(CL: TPSPPascalCompiler);
10853: begin
10854:   TZListSortCompare', 'Function (Item1, Item2 : TObject): Integer
10855:   SIRegister_TZSortedList(CL);
10856:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10857:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10858:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10859:   //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10860:   Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10861:   Function StartsWith1( const Str, SubStr : RawByteString) : Boolean;
10862:   Function EndsWith1( const Str, SubStr : WideString) : Boolean;
10863:   Function EndsWith1( const Str, SubStr : RawByteString) : Boolean;
10864:   Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10865:   Function SQLStrToFloatDef1( Str : String; Def : Extended) : Extended;
10866:   Function SQLStrToFloat( const Str : AnsiString) : Extended
10867:   //Function BufferToStr( Buffer : PWideChar; Length : LongInt) : string;
10868:   //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt) : string;
10869:   Function BufferToBytes( Buffer : TObject; Length : LongInt) : TByteDynArray
10870:   Function StrToBoolEx( Str : string) : Boolean
10871:   Function BoolToStrEx( Bool : Boolean) : String
10872:   Function IsIpAddr( const Str : string) : Boolean
10873:   Function zSplitString( const Str, Delimiters : string) : TStrings
10874:   Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10875:   Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10876:   Function ComposeString( List : TStrings; const Delimiter : string) : string
10877:   Function FloatToSQLStr( Value : Extended) : string
10878:   Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10879:   Function SplitStringEx( const Str, Delimiter : string) : TStrings
10880:   Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10881:   Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10882:   Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10883:   Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10884:   Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10885:   Function StrToBytes3( const Value : WideString) : TByteDynArray;
10886:   Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10887:   Function BytesToVar( const Value : TByteDynArray) : Variant
10888:   Function VarToBytes( const Value : Variant) : TByteDynArray
10889:   Function AnsiSQLDateToDateTime( const Value : string) : TDateTime
10890:   Function TimestampStrToDate( const Value : string) : TDateTime
10891:   Function DateToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10892:   Function EncodeCString( const Value : string) : string
10893:   Function DecodeCString( const Value : string) : string
10894:   Function zReplaceChar( const Source, Target : Char; const Str : string) : string
10895:   Function MemPas( Buffer : PChar; Length : LongInt) : string
10896:   Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10897:   Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10898:   Function FormatSQLVersion( const SQLVersion : Integer ) : String
10899:   Function ZStrToFloat( Value : AnsiChar) : Extended;
10900:   Function ZStrToFloat1( Value : AnsiString) : Extended;
10901:   Procedure Z.SetString( const Src : AnsiChar; var Dest : AnsiString);
10902:   Procedure Z.SetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10903:   Procedure Z.SetString2( const Src : AnsiChar; var Dest : UTF8String);
10904:   Procedure Z.SetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10905:   Procedure Z.SetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10906:   Procedure Z.SetString5( const Src : AnsiChar; var Dest : RawByteString);
10907:   Procedure Z.SetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);
10908: end;
10909:
10910: unit UPSI_ZEncoding;
10911:   Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word) : RawByteString
10912:   Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word) : String
10913:   Function ZRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10914:   Function ZUnicodeToRaw( const US : WideString; CP : Word) : RawByteString
10915:   Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10916:   Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10917:   Function ZConvertAnsiToUTF8( const Src : AnsiString) : UTF8String
10918:   Function ZConvertUTF8ToAnsi( const Src : UTF8String) : AnsiString
10919:   Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10920:   Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10921:   Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10922:   Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10923:   Function ZConvertStringToRawWithAutoEncode( const Src:String;const StringCP,RawCP:Word):RawByteString;
10924:   Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word) : String
10925:   Function ZConvertStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10926:   Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP: Word): UTF8String
10927:   Function ZConvertStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10928:   Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP: Word): AnsiString
10929:   Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10930:   Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word) : String
10931:   Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word) : String
10932:   Function ZConvertStringToUnicode( const Src : String; const StringCP : Word) : WideString
10933:   Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word) : WideString
10934:   Function ZConvertStringToUnicodeWithAutoEncode( const Src: String; const StringCP:Word):WideString
10935:   Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10936:   Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10937:   Function ZMoveAnsiToUTF8( const Src : AnsiString) : UTF8String

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10938: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10939: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10940: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10941: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10942: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10943: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10944: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10945: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10946: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10947: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10948: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word ) : WideString
10949: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word ) : RawByteString
10950: Function ZDefaultSystemCodePage : Word
10951: Function ZCompatibleCodePages( const CP1, CP2 : Word ) : Boolean
10952:
10953:
10954: procedure SIRegister_BoldComUtils(CL: TPSPPascalCompiler);
10955: begin
10956:   ('RPC_C_AUTHN_LEVEL_DEFAULT','LongInt'( 0 );
10957:   ('RPC_C_AUTHN_LEVEL_NONE','LongInt'( 1 );
10958:   ('RPC_C_AUTHN_LEVEL_CONNECT','LongInt'( 2 );
10959:   ('RPC_C_AUTHN_LEVEL_CALL','LongInt'( 3 );
10960:   ('RPC_C_AUTHN_LEVEL_PKT','LongInt'( 4 );
10961:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY','LongInt'( 5 );
10962:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY','LongInt'( 6 );
10963: {('alDefault','1 RPC_C_AUTHN_LEVEL_DEFAULT';
10964: ('alNone','2 RPC_C_AUTHN_LEVEL_NONE';
10965: ('alConnect','3 RPC_C_AUTHN_LEVEL_CONNECT';
10966: ('alCall','4 RPC_C_AUTHN_LEVEL_CALL;
10967: ('alPacket','5 RPC_C_AUTHN_LEVEL_PKT;
10968: ('alPacketIntegrity','6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY;
10969: ('alPacketPrivacy','7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY);
10970: ('RPC_C_IMP_LEVEL_DEFAULT','LongInt'( 0 );
10971: ('RPC_C_IMP_LEVEL_ANONYMOUS','LongInt'( 1 );
10972: ('RPC_C_IMP_LEVEL_IDENTIFY','LongInt'( 2 );
10973: ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt'( 3 );
10974: ('RPC_C_IMP_LEVEL_DELEGATE','LongInt'( 4 );
10975: {('ilDefault','0 RPC_C_IMP_LEVEL_DEFAULT';
10976: ('ilAnonymous','1 RPC_C_IMP_LEVEL_ANONYMOUS';
10977: ('ilIdentity','2 RPC_C_IMP_LEVEL_IDENTIFY;
10978: ('ilImpersonate','3 RPC_C_IMP_LEVEL_IMPERSONATE;
10979: ('ilDelegate','4 RPC_C_IMP_LEVEL_DELEGATE);
10980: ('EOAC_NONE','LongWord').SetUInt( $0 );
10981: ('EOAC_DEFAULT','LongWord').SetUInt( $800 );
10982: ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1 );
10983: ('EOAC_STATIC_CLOACKING','LongWord').SetUInt( $20 );
10984: ('EOAC_DYNAMIC_CLOAKING','LongWord').SetUInt( $40 );
10985: ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80 );
10986: ('RPC_C_AUTHN_WINNT','LongInt'( 10 );
10987: ('RPC_C_AUTHNZ_NONE','LongInt'( 0 );
10988: ('RPC_C_AUTHNZ_NAME','LongInt'( 1 );
10989: ('RPC_C_AUTHNZ_DCE','LongInt'( 2 );
10990:   FindClass('TOBJECT'), 'EBoldCom
10991: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer ) : Boolean
10992: Function BoldMemoryToVariant( const Buffer, BufSize : Integer ) : OleVariant
10993: Function BoldStreamToVariant( Stream : TStream ) : OleVariant
10994: Function BoldStringsToVariant( Strings : TStrings ) : OleVariant
10995: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer ) : Integer
10996: Function BoldVariantToStream( V : OleVariant; Stream : TStream ) : Integer
10997: Function BoldVariantArrayOfArraysOfStringToStrings( V : OleVariant; Strings : TStrings ) : Integer
10998: Function BoldVariantIsNamedValues( V : OleVariant ) : Boolean
10999: Function BoldCreateNamedValues(const Names:array of string;const Values:array of OleVariant):OleVariant;
11000: Function BoldGetNamedValue( Data : OleVariant; const Name : string ) : OleVariant
11001: Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant )
11002: Function BoldCreateGUID : TGUID
11003: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult ) : Boolean
11004: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out Res:HRes):Bool;
11005: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint )
11006: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown);
11007: end;
11008:
11009: (*-----*)
11010: procedure SIRegister_BoldIsoDateTime(CL: TPSPPascalCompiler);
11011: begin
11012:   Function ParseISODate( s : string ) : TDateTime
11013:   Function ParseISODateTime( s : string ) : TDateTime
11014:   Function ParseISOTime( str : string ) : TDateTime
11015: end;
11016:
11017: (*-----*)
11018: procedure SIRegister_BoldGUIDUtils(CL: TPSPPascalCompiler);
11019: begin
11020:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
11021:   Function BoldCreateGUIDWithBracketsAsString : string
11022: end;
11023:
11024: procedure SIRegister_BoldFileHandler(CL: TPSPPascalCompiler);
11025: begin

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11026:   FindClass( 'TOBJECT' ), 'TBoldFileHandler
11027:   FindClass( 'TOBJECT' ), 'TBoldDiskFileHandler
11028:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
11029:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
11030:   SIRegister_TBoldFileHandler(CL);
11031:   SIRegister_TBoldDiskFileHandler(CL);
11032:   Procedure BoldCloseAllFilehandlers
11033:   Procedure BoldRemoveUnchangedFilesFromEditor
11034:   Function BoldFileHandlerList : TBoldObjectArray
11035:   Function BoldFileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
11036:   OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
11037:   end;
11038:   procedure SIRegister_BoldWinINet(CL: TPSPPascalCompiler);
11039:   begin
11040:     PCharArr', 'array of PChar
11041:     Function BoldInternetOpen(Agent:String;
11042:     AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
11043:     Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
11044:     Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
11045:     NumberOfBytesRead:Card):LongBool;
11046:     Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
11047:     Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
11048:     Cardinal; Reserved : Cardinal ) : LongBool
11049:     Function BoldInternetQueryDataAvailable( hfile : Pointer; var NumberofBytesAvailable : Cardinal; flags :
11050:     Cardinal; Context : Cardinal ) : LongBool
11051:     Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
11052:     : PCharArr; Flags, Context : Cardinal ) : Pointer
11053:     Function BoldHttpSendRequest(hRequest:ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
11054:     Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
11055:     Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
11056:     Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
11057:     Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
11058:     Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
11059:   end;
11060:
11061:
11062: (*-----*)
11063: procedure SIRegister_BoldQueue(CL: TPSPPascalCompiler);
11064: begin
11065:   //('befIsInDisplayList',' BoldElementFlag0);
11066:   //('befStronglyDependedOfPrioritized',' BoldElementFlag1);
11067:   //('befFollowerSelected',' BoldElementFlag2);
11068:   FindClass( 'TOBJECT' ), 'TBoldQueue
11069:   FindClass( 'TOBJECT' ), 'TBoldQueueable
11070:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
11071:   SIRegister_TBoldQueueable(CL);
11072:   SIRegister_TBoldQueue(CL);
11073:   Function BoldQueueFinalized : Boolean
11074:   Function BoldInstalledQueue : TBoldQueue
11075: end;
11076:
11077: procedure SIRegister_Barcod(CL: TPSPPascalCompiler);
11078: begin
11079:   const mmPerInch', 'Extended').setExtended( 25.4 );
11080:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
11081:   +' bcCode_2_5_matrix, bcCode39Extended, bcCode128A, bcCode128B, bc'
11082:   +' Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
11083:   +' bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
11084:   +' odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
11085:   TBarLineType', '( white, black, black_half )
11086:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
11087:   TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st'
11088:   +' pBottomLeft, stpBottomRight, stpBottomCenter )
11089:   TCheckSumMethod', '( csmNone, csmModulo10 )
11090:   SIRegister_TAsBarcode(CL);
11091:   Function CheckSumModulo10( const data : string ) : string
11092:   Function ConvertMmToPixelsX( const Value : Double ) : Integer
11093:   Function ConvertMmToPixelsY( const Value : Double ) : Integer
11094:   Function ConvertInchToPixelsX( const Value : Double ) : Integer
11095:   Function ConvertInchToPixelsY( const Value : Double ) : Integer
11096: end;
11097:
11098: procedure SIRegister_Geometry(CL: TPSPPascalCompiler); //OpenGL
11099: begin
11100:   THomogeneousByteVector', 'array[0..3] of Byte
11101:   THomogeneousWordVector', 'array[0..3] of Word
11102:   THomogeneousIntVector', 'array[0..3] of Integer
11103:   THomogeneousFltVector', 'array[0..3] of single
11104:   THomogeneousDblVector', 'array[0..3] of double
11105:   THomogeneousExtVector', 'array[0..3] of extended
11106:   TAffineByteVector', 'array[0..2] of Byte
11107:   TAffineWordVector', 'array[0..2] of Word

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11108: TAffineIntVector', 'array[0..2] of Integer
11109: TAffineFltVector', 'array[0..2] of single
11110: TAffineDblVector', 'array[0..2] of double
11111: TAffineExtVector', 'array[0..2] of extended
11112: THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11113: THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11114: THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11115: THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11116: THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11117: THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11118: TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11119: TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11120: TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11121: TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11122: TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11123: TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11124: TMatrix4b', 'THomogeneousByteMatrix
11125: TMatrix4w', 'THomogeneousWordMatrix
11126: TMatrix4i', 'THomogeneousIntMatrix
11127: TMatrix4f', 'THomogeneousFltMatrix
11128: TMatrix4d', 'THomogeneousDblMatrix
11129: TMatrix4e', 'THomogeneousExtMatrix
11130: TMatrix3b', 'TAffineByteMatrix
11131: TMatrix3w', 'TAffineWordMatrix
11132: TMatrix3i', 'TAffineIntMatrix
11133: TMatrix3f', 'TAffineFltMatrix
11134: TMatrix3d', 'TAffineDblMatrix
11135: TMatrix3e', 'TAffineExtMatrix
11136: //PMatrix', '^TMatrix // will not work
11137: TMatrixGL', 'THomogeneousFltMatrix
11138: THomogeneousMatrix', 'THomogeneousFltMatrix
11139: TAffineMatrix', 'TAffineFltMatrix
11140: TQuaternion', 'record Vector : TVector4f; end
11141: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11142: +ger; Height : Integer; end
11143: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11144: +'XZ, ttShearyYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11145: +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11146: 'EPSILON', 'Extended').setExtended( 1E-100);
11147: 'EPSILON2', 'Extended').setExtended( 1E-50);
11148: Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11149: Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11150: Function VectorAffineCombine( V1,V2:TAffineVector; F1, F2 : Single ) : TAffineVector
11151: Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11152: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single ) : TAffineVector
11153: Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11154: Function VectorAngle( V1, V2 : TAffineVector ) : Single
11155: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11156: Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11157: Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11158: Function VectorLength( V : array of Single ) : Single
11159: Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11160: Procedure VectorNegate( V : array of Single )
11161: Function VectorNorm( V : array of Single ) : Single
11162: Function VectorNormalize( V : array of Single ) : Single
11163: Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11164: Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11165: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single )
11166: Procedure VectorScale( V : array of Single; Factor : Single )
11167: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11168: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11169: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11170: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11171: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11172: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11173: Procedure MatrixAdjoint( var M : TMatrixGL )
11174: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11175: Procedure MatrixAffineTranspose( var M : TAffineMatrix )
11176: Function MatrixDeterminant( M : TMatrixGL ) : Single
11177: Procedure MatrixInvert( var M : TMatrixGL )
11178: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11179: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11180: Procedure MatrixTranspose( var M : TMatrixGL )
11181: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11182: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion
11183: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11184: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11185: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11186: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
11187: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11188: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11189: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11190: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11191: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11192: Function VectorTransform1( V : TVector3f; M : TMatrixGL ) : TVector3f;
11193: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11194: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11195: Function MakeAffineVector( V : array of Single ) : TAffineVector
11196: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion

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11197: Function MakeVector( V : array of Single ) : TVectorGL
11198: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11199: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11200: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11201: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11202: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11203: Function ArcCosGL( X : Extended ) : Extended
11204: Function ArcSinGL( X : Extended ) : Extended
11205: Function ArcTan2GL( Y, X : Extended ) : Extended
11206: Function CoTanGL( X : Extended ) : Extended
11207: Function DegToRadGL( Degrees : Extended ) : Extended
11208: Function RadToDegGL( Radians : Extended ) : Extended
11209: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11210: Function TanGL( X : Extended ) : Extended
11211: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11212: Function Turnl( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11213: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11214: Function Pitchl( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11215: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11216: Function Rolll( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11217: end;
11218:
11219:
11220: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11221: begin
11222:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11223:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11224:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11225:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11226:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11227:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11228:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11229:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11230:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11231:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11232:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11233:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11234:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11235:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11236:   Procedure RegWriteWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11237:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11238:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11239:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11240:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11241:     AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser
11242:       +'RunOnce, ekServiceRun, ekServiceRunOnce )'
11243:     AddClassN(FindClass('TOBJECT'), 'EJclRegistryError'
11244:   Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11245:   Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11246:   Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
11247: Items:TStrings):Bool;
11248:   Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
11249: SaveTo:TStrings):Bool;
11250:   Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11251: end;
11252: procedure SIRegister_JclCOM(CL: TPSPascalCompiler);
11253: begin
11254:   CLSID_StdComponentCategoriesMgr', 'TGUID '{0002E005-0000-0000-C000-000000000046}
11255:   CATID_SafeForInitializing', 'TGUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11256:   CATID_SafeForScripting', 'TGUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11257:   icMAX_CATEGORY_DESC_LEN', 'LongInt'( 128 );
11258:   FindClass('TOBJECT'), 'EInvalidParam
11259:   Function IsDCOMInstalled : Boolean
11260:   Function GetDCOMVersion : string
11261:   Function GetMDACVersion : string
11262:   Function GetMDACVersion2 : string
11263:   Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11264: VarArray:OleVariant):HResult;
11265:   Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11266:   Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
11267: VarArray:OleVariant):HResult;
11268:   Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11269:   Function CreateComponentCategory( const CatID : TGUID; const sDescription : string ) : HResult
11270:   Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HResult
11271:   Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HResult
11272:   Function ResetIStreamToStart( Stream : IStream ) : Boolean
11273:   Function SizeOfIStreamContents( Stream : IStream ) : Largeint
11274:   Function StreamToVariantArray( Stream : TStream ) : OleVariant;
11275:   Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream );
11276:   Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream );
11277: end;
11278:
11279:
11280: procedure SIRegister_JclUnitConv_mX2(CL: TPSPascalCompiler);

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11281: begin
11282:   Const('CelsiusFreezingPoint','Extended').setExtended( 0.0);
11283:   FahrenheitFreezingPoint','Extended').setExtended( 32.0);
11284:   KelvinFreezingPoint','Extended').setExtended( 273.15);
11285:   CelsiusAbsoluteZero','Extended').setExtended( - 273.15);
11286:   FahrenheitAbsoluteZero','Extended').setExtended( - 459.67);
11287:   KelvinAbsoluteZero','Extended').setExtended( 0.0);
11288:   DegPerCycle','Extended').setExtended( 360.0);
11289:   DegPerGrad','Extended').setExtended( 0.9);
11290:   DegPerRad','Extended').setExtended( 57.295779513082320876798154814105);
11291:   GradPerCycle','Extended').setExtended( 400.0);
11292:   GradPerDeg','Extended').setExtended( 1.11111111111111111111111111111111);
11293:   GradPerRad','Extended').setExtended( 63.661977236758134307553505349006);
11294:   RadPerCycle','Extended').setExtended( 6.283185307179586476925286766559);
11295:   RadPerDeg','Extended').setExtended( 0.017453292519943295769236907684886);
11296:   RadPerGrad','Extended').setExtended( 0.015707963267948966192313216916398);
11297:   CyclePerDeg','Extended').setExtended( 0.002777777777777777777777777777777777);
11298:   CyclePerGrad','Extended').setExtended( 0.0025);
11299:   CyclePerRad','Extended').setExtended( 0.15915494309189533576888376337251);
11300:   ArcMinutesPerDeg','Extended').setExtended( 60.0);
11301:   ArcSecondsPerArcMinute','Extended').setExtended( 60.0);
11302:   Function HowAOneLinerCanBiteYou( const Step, Max : Longint) : Longint
11303:   Function MakePercentage( const Step, Max : Longint) : Longint
11304:   Function CelsiusToKelvin( const T : double) : double
11305:   Function CelsiusToFahrenheit( const T : double) : double
11306:   Function KelvinToCelsius( const T : double) : double
11307:   Function KelvinToFahrenheit( const T : double) : double
11308:   Function FahrenheitToCelsius( const T : double) : double
11309:   Function FahrenheitToKelvin( const T : double) : double
11310:   Function CycleToDeg( const Cycles : double) : double
11311:   Function CycleToGrad( const Cycles : double) : double
11312:   Function CycleToRad( const Cycles : double) : double
11313:   Function DegToCycle( const Degrees : double) : double
11314:   Function DegToGrad( const Degrees : double) : double
11315:   Function DegToRad( const Degrees : double) : double
11316:   Function GradToCycle( const Grads : double) : double
11317:   Function GradToDeg( const Grads : double) : double
11318:   Function GradToRad( const Grads : double) : double
11319:   Function RadToCycle( const Radians : double) : double
11320:   Function RadToDeg( const Radians : double) : double
11321:   Function RadToGrad( const Radians : double) : double
11322:   Function DmsToDeg( const D, M : Integer; const S : double) : double
11323:   Function DmsToRad( const D, M : Integer; const S : double) : double
11324:   Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double)
11325:   Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal) : string
11326:   Procedure CartesianToPolar( const X, Y : double; out R, Phi : double)
11327:   Procedure PolarToCartesian( const R, Phi : double; out X, Y : double)
11328:   Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double)
11329:   Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double)
11330:   Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double)
11331:   Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double)
11332:   Function CmToInch( const Cm : double) : double
11333:   Function InchToCm( const Inch : double) : double
11334:   Function FeetToMetre( const Feet : double) : double
11335:   Function MetreToFeet( const Metre : double) : double
11336:   Function YardToMetre( const Yard : double) : double
11337:   Function MetreToYard( const Metre : double) : double
11338:   Function NmToKm( const Nm : double) : double
11339:   Function KmToNm( const Km : double) : double
11340:   Function KmToSm( const Km : double) : double
11341:   Function SmToKm( const Sm : double) : double
11342:   Function LitreToGalUs( const Litre : double) : double
11343:   Function GalUsToLitre( const GalUs : double) : double
11344:   Function GalUsToGalCan( const GalUs : double) : double
11345:   Function GalCanToGalUs( const GalCan : double) : double
11346:   Function GalUsToGalUk( const GalUs : double) : double
11347:   Function GalUkToGalUs( const GalUk : double) : double
11348:   Function LitreToGalCan( const Litre : double) : double
11349:   Function GalCanToLitre( const GalCan : double) : double
11350:   Function LitreToGalUk( const Litre : double) : double
11351:   Function GalUkToLitre( const GalUk : double) : double
11352:   Function KgToLb( const Kg : double) : double
11353:   Function LbToKg( const Lb : double) : double
11354:   Function KgToOz( const Kg : double) : double
11355:   Function OzToKg( const Oz : double) : double
11356:   Function CwtUsToKg( const Cwt : double) : double
11357:   Function CwtUkToKg( const Cwt : double) : double
11358:   Function KaratToKg( const Karat : double) : double
11359:   Function KgToCwtUs( const Kg : double) : double
11360:   Function KgToCwtUk( const Kg : double) : double
11361:   Function KgToKarat( const Kg : double) : double
11362:   Function KgToSton( const Kg : double) : double
11363:   Function KgToTon( const Kg : double) : double
11364:   Function StonToKg( const STon : double) : double
11365:   Function LtonToKg( const Lton : double) : double
11366:   Function QrUsToKg( const Qr : double) : double
11367:   Function QrUkToKg( const Qr : double) : double
11368:   Function KgToQrUs( const Kg : double) : double
11369:   Function KgToQrUk( const Kg : double) : double

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11370: Function PascalToBar( const Pa : double) : double
11371: Function PascalToAt( const Pa : double) : double
11372: Function PascalToTorr( const Pa : double) : double
11373: Function BarToPascal( const Bar : double) : double
11374: Function AtToPascal( const At : double) : double
11375: Function TorrToPascal( const Torr : double) : double
11376: Function KnotToMs( const Knot : double) : double
11377: Function HpElectricToWatt( const HpE : double) : double
11378: Function HpMetricToWatt( const HpM : double) : double
11379: Function MsToKnot( const ms : double) : double
11380: Function WattToHpElectric( const W : double) : double
11381: Function WattToHpMetric( const W : double) : double
11382: function getBigPI: string; //PI of 1000 numbers
11383:
11384: procedure SIRegister_devcutools(CL: TPSPascalCompiler);
11385: begin
11386:   Function CDExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11387:   Procedure CDCopyFile( const FileName, DestName : string)
11388:   Procedure CDMoveFile( const FileName, DestName : string)
11389:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11390:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11391:   Function CDGetTempDir : string
11392:   Function CDGetFileSize( FileName : string) : longint
11393:   Function GetFileTime( FileName : string) : longint
11394:   Function GetShortName( FileName : string) : string
11395:   Function GetFullName( FileName : string) : string
11396:   Function WinReboot : boolean
11397:   Function WinDir : String
11398:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11399:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11400:   Function devExecutor : TdevExecutor
11401: end;
11402:
11403: procedure SIRegister_FileAssocs(CL: TPSPascalCompiler);
11404: begin
11405:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7);
11406:   Procedure Associate( Index : integer)
11407:   Procedure UnAssociate( Index : integer)
11408:   Function IsAssociated( Index : integer) : boolean
11409:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11410:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp,IcoNum: string)
11411:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11412:   procedure RefreshIcons;
11413:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11414:   function MergColor(Colors: Array of TColor): TColor;
11415:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11416:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11417:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11418:   function GetInverseColor(AColor: TColor): TColor;
11419:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11420:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer;ShadowColor: TColor);
11421:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11422:   Procedure GetSystemMenuFont(Font: TFont);
11423: end;
11424:
11425: //*****unit uPSI_JvHLParser;*****
11426: function IsStringConstant(const St: string): Boolean;
11427: function IsIntConstant(const St: string): Boolean;
11428: function IsRealConstant(const St: string): Boolean;
11429: function IsIdentifier(const ID: string): Boolean;
11430: function GetStringValue(const St: string): string;
11431: procedure ParseString(const S: string; Ss: TStrings);
11432: function IsStringConstantW(const St: WideString): Boolean;
11433: function IsIntConstantW(const St: WideString): Boolean;
11434: function IsRealConstantW(const St: WideString): Boolean;
11435: function IsIdentifierW(const ID: WideString): Boolean;
11436: function GetStringValueW(const St: WideString): WideString;
11437: procedure ParseStringW(const S: WideString; Ss: TStrings);
11438:
11439:
11440: //*****unit uPSI_JclMapi;*****
11441:
11442: Function JclSimpleSendMail( const ARecipient,AName,ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWND) : Boolean
11443: Function JclSimpleSendFax( const ARecipient, AName,ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd) : Boolean
11444: Function JclSimpleBringUpSendMailDialog(const ASubject,ABody:string;const AAttach:TFileName;AParentWND:HWND):Bool
11445: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean) : DWORD
11446: Function MapiErrorMessage( const ErrorCode : DWORD) : string
11447:
11448: procedure SIRegister_IdNTLM(CL: TPSPascalCompiler);
11449: begin
11450:   //'pdes_key_schedule', '^des_key_schedule // will not work
11451:   Function BuildType1Message( ADomain, AHost : String) : String
11452:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11453:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass)
11454:   Function FindAuthClass( AuthName : String) : TIIdAuthenticationClass
11455:   GBase64CodeTable', 'string'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/

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11456: GXECodeTable', 'string' +_0123456789ABCDEFHIJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz
11457: GUUECodeTable', 'string' +'#$%&'()*)+,-./0123456789:;<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_
11458: end;
11459:
11460: procedure SIRegister_WDosSocketUtils(CL: TPSPascalCompiler);
11461: begin
11462: ('IpAny', 'LongWord').SetUInt( $00000000);
11463: IpLoopBack', 'LongWord').SetUInt( $7F000001);
11464: IpBroadcast', 'LongWord').SetUInt( $FFFFFFFF);
11465: IpNone', 'LongWord').SetUInt( $FFFFFFFF);
11466: PortAny', 'LongWord( $0000);
11467: SocketMaxConnections', 'LongInt'( 5);
11468: TIpAddr', 'LongWord
11469: TIpRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11470: Function HostToNetLong( HostLong : LongWord) : LongWord
11471: Function HostToNetShort( HostShort : Word) : Word
11472: Function NetToHostLong( NetLong : LongWord) : LongWord
11473: Function NetToHostShort( NetShort : Word) : Word
11474: Function StrToIp( Ip : string) : TIpAddr
11475: Function IpToStr( Ip : TIpAddr) : string
11476: end;
11477:
11478: (*-----*)
11479: procedure SIRegister_ALSMTPClient(CL: TPSPascalCompiler);
11480: begin
11481: TAISmtpClientAuthType', '( AlsmtplibAuthNone, alsmtplibAuthPlain'
11482: + 'AlsmtplibAuthLogin, AlsmtplibAuthCramMD5, AlsmtplibAuthCr'
11483: + 'amShal, AlsmtplibAuthAutoSelect )
11484: TAISmtpClientAuthTypeSet', 'set of TAISmtpClientAuthType
11485: SIRegister_TAISmtpClient(CL);
11486: end;
11487:
11488: procedure SIRegister_WDosPlcUtils(CL: TPSPascalCompiler);
11489: begin
11490: 'TBitNo', 'Integer
11491: TStByteNo', 'Integer
11492: TStationNo', 'Integer
11493: TInOutNo', 'Integer
11494: TIO', '( EE, AA, NE, NA )
11495: TBitSet', 'set of TBitNo
11496: TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11497: TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11498: TBitAddr', 'LongInt
11499: TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11500: TByteAddr', 'SmallInt
11501: TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11502: Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11503: Function BusBitAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStationNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11504: Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var aBitNo:TBitNo);
11505: Function BitAddrToStr( Value : TBitAddr ) : string
11506: Function StrToBitAddr( const Value : string ) : TBitAddr
11507: Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11508: Function BusByteAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStationNo;aStByteNo:TStByteNo):TByteAddr
11509: Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11510: Function ByteAddrToStr( Value : TByteAddr ) : string
11511: Function StrToByteAddr( const Value : string ) : TByteAddr
11512: Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11513: Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11514: Function InOutStateToStr( State : TInOutState ) : string
11515: Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11516: Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11517: end;
11518:
11519: procedure SIRegister_WDosTimers(CL: TPSPascalCompiler);
11520: begin
11521: TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11522: + 'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11523: DpmiPmVector', 'Int64
11524: 'DInterval', 'LongInt'( 1000);
11525: //''Enabled', 'Boolean')BoolToStr( True);
11526: 'DIntFreq', 'String' if64
11527: //''DMessages', 'Boolean if64';
11528: SIRegister_TwdxCustomTimer(CL);
11529: SIRegister_TwdxTimer(CL);
11530: SIRegister_TwdxRtcTimer(CL);
11531: SIRegister_TCustomIntTimer(CL);
11532: SIRegister_TIntTimer(CL);
11533: SIRegister_TRtcIntTimer(CL);
11534: Function RealNow : TDateTime
11535: Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11536: Function DateTimeToMs( Time : TDateTime ) : LongInt
11537: end;
11538:
11539: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11540: begin
11541: TIIdSyslogPRI', 'Integer
11542: TIIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11543: + 'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'

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11544:   +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11545:   +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11546:   +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11547: TIdSyslogSeverity','( slEmergency,slAlert,slCritical,slError,slWarning,slNotice,slInformational,slDebug)
11548: SIRegister_TIdSysLogMsgPart(CL);
11549: SIRegister_TIdSysLogMessage(CL);
11550: Function FacilityToString( AFac : TIdSyslogFacility ) : string
11551: Function SeverityToString( ASec : TIdSyslogSeverity ) : string
11552: Function NoToSeverity( ASev : Word ) : TIdSyslogSeverity
11553: Function logSeverityToNo( ASev : TIdSyslogSeverity ) : Word
11554: Function NoToFacility( AFac : Word ) : TIdSyslogFacility
11555: Function logFacilityToNo( AFac : TIdSyslogFacility ) : Word
11556: end;
11557:
11558: procedure SIRegister_TextUtils(CL: TPSPPascalCompiler);
11559: begin
11560:   'UWhitespace','String '(?:\s*)
11561:   Function StripSpaces( const AText : string ) : string
11562:   Function CharCount( const AText : string; Ch : Char ) : Integer
11563:   Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11564:   Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11565: end;
11566:
11567:
11568: procedure SIRegister_ExtPascalUtils(CL: TPSPPascalCompiler);
11569: begin
11570:   ExtPascalVersion','String '0.9.8
11571:   AddTypeS('TBrowser', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11572:   +'Opera, brKonqueror, brMobileSafari )
11573:   AddTypeS('TCSSUnit', '( cssPX, cssPerc, cssEM, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11574:   AddTypeS('TExtProcedure', 'Procedure
11575:   Function DetermineBrowser( const UserAgentStr : string ) : TBrowser
11576:   Function ExtExtract( const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool ):bool;
11577:   Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11578:   Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11579:   Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11580:   Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11581:   Function StrToJS( const S : string; UseBR : boolean ) : string
11582:   Function CaseOf( const S : string; const Cases : array of string ) : integer
11583:   Function RCaseOf( const S : string; const Cases : array of string ) : integer
11584:   Function EnumToJSString( TypeInfo : PTypeInfo; Value : integer ) : string
11585:   Function SetPaddings(Top:integer;Right:int;Bottom:intr;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11586:   Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11587:   Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11588:   Function IsUpperCase( S : string ) : boolean
11589:   Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11590:   Function BeautifyCSS( const AStyle : string ) : string
11591:   Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11592:   Function JSDateToDate( JSDate : string ) : TDateTime
11593: end;
11594:
11595: procedure SIRegister_JclShell(CL: TPSPPascalCompiler);
11596: begin
11597:   TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11598:   TSHDeleteOptions', 'set of TSHDeleteOption
11599:   TSHRenameOption', '( roSilent, roRenameOnCollision )
11600:   TSHRenameOptions', 'set of TSHRenameOption
11601:   Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11602:   Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11603:   Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11604:   TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11605:   TEnumFolderFlags', 'set of TEnumFolderFlag
11606:   TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11607:   +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11608:   +'IEnumIdList; Folder : IShellFolder; end
11609:   Function SHEnumFolderFirst(const Folder:string;var F:TEnumFolderFlags):Boolean;
11610:   Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11611:   Procedure SHEnumFolderClose( var F : TEnumFolderRec )
11612:   Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11613:   Function GetSpecialFolderLocation( const Folder : Integer ) : string
11614:   Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11615:   Function DisplayPropDialogl( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11616:   Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11617:   Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11618:   Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11619:   Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean
11620:   Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11621:   Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11622:   Function SHFreeMem( var P : Pointer ) : Boolean
11623:   Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PItemIdList
11624:   Function PathToPidl( const Path : string; Folder : IShellFolder ) : PItemIdList
11625:   Function PathToPidlBind( const FileName : string; out Folder : IShellFolder ) : PItemIdList
11626:   Function PidlBindToParent(const Idlist:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11627:   Function PidlCompare( const Pidl1, Pidl2 : PItemIdList ) : Boolean
11628:   Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList ) : Boolean
11629:   Function PidlFree( var IdList : PItemIdList ) : Boolean
11630:   Function PidlGetDepth( const Pidl : PItemIdList ) : Integer
11631:   Function PidlGetLength( const Pidl : PItemIdList ) : Integer
11632:   Function PidlGetNext( const Pidl : PItemIdList ) : PItemIdList

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11633: Function PidlToPath( IdList : PItemIdList ) : string
11634: Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11635: Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11636: PShellLink', '^TShellLink // will not work
11637: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11638: +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11639: +': string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11640: Procedure ShellLinkFree( var Link : TShellLink )
11641: Function ShellLinkResolve( const FileName : string; var Link : TShellLink ) : HRESULT
11642: Function ShellLinkCreate( const Link : TShellLink; const FileName : string ) : HRESULT
11643: Function ShellLinkCreateSystem( const Link : TShellLink; const Folder : Integer; const FileName : string ) : HRESULT
11644: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon ) : Boolean
11645: Function SHDlGetVersion( const FileName : string; var Version : TDllVersionInfo ) : Boolean
11646: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal ) : HICON
11647: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean ) : Boolean
11648: Function OverlayIconShortCut( var Large, Small : HICON ) : Boolean
11649: Function OverlayIconShared( var Large, Small : HICON ) : Boolean
11650: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList ) : string
11651: Function ShellExecEx( const FileName : string; const Parameters : string; const Verb : string; CmdShow : Int ) : Bool;
11652: Function ShellExec( Wnd : Integer; const Operation, FileName, Parameters, Directy : string; ShowCommand : Int ) : Bool;
11653: Function ShellExecAndWait( const FileName : string; const Params : string; const Verb : string; CmdShow : Int ) : Bool;
11654: Function ShellOpenAs( const FileName : string ) : Boolean
11655: Function ShellRasDial( const EntryName : string ) : Boolean
11656: Function ShellRunControlPanel( const NameOrFileName : string; AppletNumber : Integer ) : Boolean
11657: Function GetFileNameIcon( const FileName : string; Flags : Cardinal ) : HICON
11658: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11659: Function GetFileExeType( const FileName : TFileName ) : TJclFileExeType
11660: Function ShellFindExecutable( const FileName, DefaultDir : string ) : string
11661: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD )
11662: Function OemKeyScan( wOemChar : Word ) : DWORD
11663: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD )
11664: end;
11665:
11666: procedure SIRegister_cXMLFunctions(CL: TPSPascalCompiler);
11667: begin
11668: xmlVersion', 'String '1.0 FindClass('TOBJECT'), 'Exml
11669: //Function xmlValidChar( const Ch : AnsiChar ) : Boolean;
11670: Function xmlValidChar( const Ch : UCS4Char ) : Boolean;
11671: Function xmlValidChar2( const Ch : WideChar ) : Boolean;
11672: Function xmlIsSpaceChar( const Ch : WideChar ) : Boolean;
11673: Function xmlIsLetter( const Ch : WideChar ) : Boolean;
11674: Function xmlIsDigit( const Ch : WideChar ) : Boolean;
11675: Function xmlIsNameStartChar( const Ch : WideChar ) : Boolean;
11676: Function xmlIsNameChar( const Ch : WideChar ) : Boolean;
11677: Function xmlIsPubidChar( const Ch : WideChar ) : Boolean;
11678: Function xmlValidName( const Text : UnicodeString ) : Boolean;
11679: //xmlSpace', 'Char #$20 or #$9 or #$D or #$A';
11680: //Function xmlSkipSpace( var P : PWideChar ) : Boolean;
11681: //Function xmlSkipEq( var P : PWideChar ) : Boolean;
11682: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString ) : Boolean;
11683: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer )
11684: : TUnicodeCodeClass
11685: Function xmlResolveEntityReference( const RefName : UnicodeString ) : WideChar;
11686: Function xmlTag( const Tag : UnicodeString ) : UnicodeString;
11687: Function xmlEndTag( const Tag : UnicodeString ) : UnicodeString;
11688: Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString ) : UnicodeString;
11689: Procedure xmlSafeTextInPlace( var Txt : UnicodeString );
11690: Function xmlSafeText( const Txt : UnicodeString ) : UnicodeString;
11691: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer ) : UnicodeString;
11692: Function xmlTabIndent( const IndentLevel : Integer ) : UnicodeString;
11693: Function xmlComment( const Comment : UnicodeString ) : UnicodeString;
11694: Procedure SelfTestcXMLFunctions;
11695: end;
11696:
11697: (*-----*)
11698: procedure SIRegister_DepWalkUtils(CL: TPSPascalCompiler);
11699: begin
11700: Function AWAITCursor : IUnknown;
11701: Function ChangeCursor( NewCursor : TCursor ) : IUnknown;
11702: Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean );
11703: Function YesNo( const ACaption, AMsg : string ) : boolean;
11704: Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings );
11705: Function GetBorlandLibPath( Version : integer; ForDelphi : boolean ) : string;
11706: Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean ) : string;
11707: Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings );
11708: Procedure GetSystemPaths( Strings : TStrings );
11709: Procedure MakeEditNumeric( EditHandle : integer );
11710: end;
11711:
11712: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11713: begin
11714: AddTypeS('TVideoCodec','(vcUnknown,vcRGB,vcUYY2,vcUYYY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11715: 'BI_YUY2','LongWord( $32595559 );
11716: 'BI_UYYV','LongWord').SetUInt( $59565955 );
11717: 'BI_BTYUV','LongWord').SetUInt( $50313459 );
11718: 'BI_YVU3','LongWord').SetUInt( $39555659 );
11719: 'BI_YUV12','LongWord( $30323449 );
11720: 'BI_Y8','LongWord').SetUInt( $20203859 );

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11721: 'BI_Y211','LongWord').SetUInt( $31313259);
11722: Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec;
11723: Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11724: end;
11725:
11726: (*-----*)
11727: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11728: begin
11729: 'WM_USER','LongWord').SetUInt( $0400);
11730: 'WM_CAP_START','LongWord').SetUInt($0400);
11731: 'WM_CAP_END','longword').SetUInt($0400+85);
11732: //WM_CAP_START+ 85
11733: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11734: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11735: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11736: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11737: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11738: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11739: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11740: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11741: Function capSetUserData( hwnd : THandle; lUser : LongInt) : LongInt
11742: Function capGetUserData( hwnd : THandle) : LongInt
11743: Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11744: Function capDriverDisconnect( hwnd : THandle) : LongInt
11745: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11746: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11747: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11748: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11749: Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11750: Function capFileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11751: Function capfileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11752: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt) : LongInt
11753: Function capFileSaveDIB( hwnd : THandle; szName : LongInt) : LongInt
11754: Function capEditCopy( hwnd : THandle) : LongInt
11755: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11756: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11757: Function capGetAudioFormatSize( hwnd : THandle) : LongInt
11758: Function capDlgVideoFormat( hwnd : THandle) : LongInt
11759: Function capDlgVideoSource( hwnd : THandle) : LongInt
11760: Function capDlgVideoDisplay( hwnd : THandle) : LongInt
11761: Function capDlgVideoCompression( hwnd : THandle) : LongInt
11762: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11763: Function capGetVideoFormatSize( hwnd : THandle) : LongInt
11764: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11765: Function capPreview( hwnd : THandle; f : Word) : LongInt
11766: Function capPreviewRate( hwnd : THandle; wMS : Word) : LongInt
11767: Function capOverlay( hwnd : THandle; f : Word) : LongInt
11768: Function capPreviewScale( hwnd : THandle; f : Word) : LongInt
11769: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11770: Function capSetScrollPos( hwnd : THandle; lpP : LongInt) : LongInt
11771: Function capGrabFrame( hwnd : THandle) : LongInt
11772: Function capGrabFrameNoStop( hwnd : THandle) : LongInt
11773: Function capCaptureSequence( hwnd : THandle) : LongInt
11774: Function capCaptureSequenceNoFile( hwnd : THandle) : LongInt
11775: Function capCaptureStop( hwnd : THandle) : LongInt
11776: Function capCaptureAbort( hwnd : THandle) : LongInt
11777: Function capCaptureSingleFrameOpen( hwnd : THandle) : LongInt
11778: Function capCaptureSingleFrameClose( hwnd : THandle) : LongInt
11779: Function capCaptureSingleFrame( hwnd : THandle) : LongInt
11780: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11781: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11782: Function capSetMCIDeviceName( hwnd : THandle; szName: LongInt) : LongInt
11783: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11784: Function capPaletteOpen( hwnd : THandle; szName : LongInt) : LongInt
11785: Function capPaletteSave( hwnd : THandle; szName : LongInt) : LongInt
11786: Function capPalettePaste( hwnd : THandle) : LongInt
11787: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt) : LongInt
11788: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt) : LongInt
11789: //PCapDriverCaps', '^TCapDriverCaps // will not work
11790: TCapDriverCaps', 'record wDeviceIndex: WORD; fHasOverlay : BOOL'
11791: +' fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11792: +'y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hvid'
11793: +'eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11794: //PCapStatus', '^TCapStatus // will not work
11795: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11796: +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOIN'
11797: +'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11798: +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11799: +'rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11800: +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD;''
11801: +' wNumAudioAllocated : WORD; end
11802: //PCaptureParms', '^TCaptureParms // will not work
11803: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11804: +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11805: +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11806: +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11807: +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11808: +'ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11809: +'wMCISearchBar : DWORD; dwMCISearchTime : DWORD; fStepCaptureAt2x : BOOL; wSt'

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11810: +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11811: +'he : BOOL; AVStreamMaster : WORD; end
11812: // PCapInfoChunk', '^TCapInfoChunk // will not work
11813: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11814: 'CONTROLCALLBACK_PREROLL', 'LongInt'( 1);
11815: 'CONTROLCALLBACK_CAPTUREING', 'LongInt'( 2);
11816: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer) : THandle
11817: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11818: 'IDS_CAP_BEGIN', 'LongInt'( 300);
11819: 'IDS_CAP_END', 'LongInt'( 301);
11820: 'IDS_CAP_INFO', 'LongInt'( 401);
11821: 'IDS_CAP_OUTOFCMEM', 'LongInt'( 402);
11822: 'IDS_CAP_FILEEXISTS', 'LongInt'( 403);
11823: 'IDS_CAP_ERRORPALOPEN', 'LongInt'( 404);
11824: 'IDS_CAP_ERRORPALSAVE', 'LongInt'( 405);
11825: 'IDS_CAP_ERRORDIBSAVE', 'LongInt'( 406);
11826: 'IDS_CAP_DEFAVIEXT', 'LongInt'( 407);
11827: 'IDS_CAP_DEFPALEXT', 'LongInt'( 408);
11828: 'IDS_CAP_CANTOPEN', 'LongInt'( 409);
11829: 'IDS_CAP_SEQ_MSGSTART', 'LongInt'( 410);
11830: 'IDS_CAP_SEQ_MSGSTOP', 'LongInt'( 411);
11831: 'IDS_CAP_VIDEODITERR', 'LongInt'( 412);
11832: 'IDS_CAP_READONLYFILE', 'LongInt'( 413);
11833: 'IDS_CAP_WRITEERROR', 'LongInt'( 414);
11834: 'IDS_CAP_NODISKSPACE', 'LongInt'( 415);
11835: 'IDS_CAP_SETFILESIZE', 'LongInt'( 416);
11836: 'IDS_CAP_SAVEASPERCENT', 'LongInt'( 417);
11837: 'IDS_CAP_DRIVER_ERROR', 'LongInt'( 418);
11838: 'IDS_CAP_WAVE_OPEN_ERROR', 'LongInt'( 419);
11839: 'IDS_CAP_WAVE_ALLOC_ERROR', 'LongInt'( 420);
11840: 'IDS_CAP_WAVE_PREPARE_ERROR', 'LongInt'( 421);
11841: 'IDS_CAP_WAVE_ADD_ERROR', 'LongInt'( 422);
11842: 'IDS_CAP_WAVE_SIZE_ERROR', 'LongInt'( 423);
11843: 'IDS_CAP_VIDEO_OPEN_ERROR', 'LongInt'( 424);
11844: 'IDS_CAP_VIDEO_ALLOC_ERROR', 'LongInt'( 425);
11845: 'IDS_CAP_VIDEO_PREPARE_ERROR', 'LongInt'( 426);
11846: 'IDS_CAP_VIDEO_ADD_ERROR', 'LongInt'( 427);
11847: 'IDS_CAP_VIDEO_SIZE_ERROR', 'LongInt'( 428);
11848: 'IDS_CAP_FILE_OPEN_ERROR', 'LongInt'( 429);
11849: 'IDS_CAP_FILE_WRITE_ERROR', 'LongInt'( 430);
11850: 'IDS_CAP_RECORDING_ERROR', 'LongInt'( 431);
11851: 'IDS_CAP_RECORDING_ERROR2', 'LongInt'( 432);
11852: 'IDS_CAP_AVI_INIT_ERROR', 'LongInt'( 433);
11853: 'IDS_CAP_NO_FRAME_CAP_ERROR', 'LongInt'( 434);
11854: 'IDS_CAP_NO_PALETTE_WARN', 'LongInt'( 435);
11855: 'IDS_CAP_MCI_CONTROL_ERROR', 'LongInt'( 436);
11856: 'IDS_CAP_MCI_CANT_STEP_ERROR', 'LongInt'( 437);
11857: 'IDS_CAP_NO_AUDIO_CAP_ERROR', 'LongInt'( 438);
11858: 'IDS_CAP_AVI_DRAWDIB_ERROR', 'LongInt'( 439);
11859: 'IDS_CAP_COMPRESSOR_ERROR', 'LongInt'( 440);
11860: 'IDS_CAP_AUDIO_DROP_ERROR', 'LongInt'( 441);
11861: 'IDS_CAP_STAT_LIVE_MODE', 'LongInt'( 500);
11862: 'IDS_CAP_STAT_OVERLAY_MODE', 'LongInt'( 501);
11863: 'IDS_CAP_STAT_CAP_INIT', 'LongInt'( 502);
11864: 'IDS_CAP_STAT_CAP_FINI', 'LongInt'( 503);
11865: 'IDS_CAP_STAT_PALETTE_BUILD', 'LongInt'( 504);
11866: 'IDS_CAP_STAT_OPTPAL_BUILD', 'LongInt'( 505);
11867: 'IDS_CAP_STAT_I_FRAMES', 'LongInt'( 506);
11868: 'IDS_CAP_STAT_L_FRAMES', 'LongInt'( 507);
11869: 'IDS_CAP_STAT_CAP_L_FRAMES', 'LongInt'( 508);
11870: 'IDS_CAP_STAT_CAP_AUDIO', 'LongInt'( 509);
11871: 'IDS_CAP_STAT_VIDEOCURRENT', 'LongInt'( 510);
11872: 'IDS_CAP_STAT_VIDEOAUDIO', 'LongInt'( 511);
11873: 'IDS_CAP_STAT_VIDEOONLY', 'LongInt'( 512);
11874: 'IDS_CAP_STAT_FRAMESDROPPED', 'LongInt'( 513);
11875: 'AVICAP32', 'String' 'AVICAP32.dll
11876: end;
11877:
11878: procedure SIRegister_ALFcnMisc(CL: TPPSPascalCompiler);
11879: begin
11880: Function AlBoolToInt( Value : Boolean) : Integer
11881: Function ALMediumPos( LTotal, LBorder, LObject : integer) : Integer
11882: Function AlIsValidEmail( const Value : AnsiString) : boolean
11883: Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime) : TdateTime
11884: Function ALInc( var x : integer; Count : integer) : Integer
11885: function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11886: function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11887: procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11888: Function ALIsInteger(const S: AnsiString): Boolean;
11889: Function ALIsDecimal(const S: AnsiString): boolean;
11890: Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11891: function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11892: function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11893: function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11894: function AlUTF8removeBOM(const S: AnsiString): AnsiString;
11895: Function ALRandomStr1(const aLength: Longint; const acharset: Array of Char): AnsiString;
11896: Function ALRandomStr(const aLength: Longint): AnsiString;

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11897: Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11898: Function ALRandomStrU(const aLength: Longint): String;
11899: end;
11900:
11901: procedure SIRegister_ALJSONDoc(CL: TPSPPascalCompiler);
11902: begin
11903: Procedure ALJSONTOStrings(const AJsonStr: AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const
11904: aTrueStr: AnsiString; const aFalseStr : AnsiString)
11905: end;
11906: procedure SIRegister_ALWindows(CL: TPSPPascalCompiler);
11907: begin
11908: _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11909: +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11910: +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11911: +''; ullAvailExtendedVirtual : Int64; end
11912: TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11913: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11914: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11915: 'INVALID_SET_FILE_POINTER','LongInt'( DWORD ( - 1 ) );
11916: 'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2 );
11917: 'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1 );
11918: 'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8 );
11919: 'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4 );
11920: end;
11921:
11922: procedure SIRegister_IPCThrd(CL: TPSPPascalCompiler);
11923: begin
11924: SIRegister_THandledObject(CL);
11925: SIRegister_TEvent(CL);
11926: SIRegister_TMutex(CL);
11927: SIRegister_TSharedMem(CL);
11928: 'TRACE_BUF_SIZE','LongInt'( 200 * 1024 );
11929: 'TRACE_BUFFER', 'String 'TRACE_BUFFER
11930: 'TRACE_MUTEX', 'String 'TRACE_MUTEX
11931: //PTraceEntry', '^TTraceEntry // will not work
11932: SIRegister_TIPCTracer(CL);
11933: 'MAX_CLIENTS','LongInt'( 6 );
11934: 'IPCTIMEOUT','LongInt'( 2000 );
11935: 'IPCBUFFER_NAME', 'String 'BUFFER_NAME
11936: 'BUFFER_MUTEX_NAME', 'String 'BUFFER_MUTEX
11937: 'MONITOR_EVENT_NAME', 'String 'MONITOR_EVENT
11938: 'CLIENT_EVENT_NAME', 'String 'CLIENT_EVENT
11939: 'CONNECT_EVENT_NAME', 'String 'CONNECT_EVENT
11940: 'CLIENT_DIR_NAME', 'String 'CLIENT_DIRECTORY
11941: 'CLIENT_DIR_MUTEX', 'String 'DIRECTORY_MUTEX
11942: FindClass('TOBJECT'), 'EMonitorActive
11943: FindClass('TOBJECT'), 'TIPCThread
11944: TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11945: +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11946: +'ach, evClientSwitch, evClientSignal, evClientExit )
11947: TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11948: TClientFlags', 'set of TClientFlag
11949: //PEventData', '^TEventData // will not work
11950: TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11951: +'lag; Flags : TClientFlags; end
11952: TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11953: TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11954: TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11955: //PIPCEventInfo', '^TIPCEventInfo // will not work
11956: TIPCEventInfo', 'record FID:Integer; FKind:TEventKind; FData:TEventData; end
11957: SIRegister_TIPCEvent(CL);
11958: //PClientDirRecords', '^TClientDirRecords // will not work
11959: SIRegister_TClientDirectory(CL);
11960: TIPCState', '( stInActive, stDisconnected, stConnected )
11961: SIRegister_TIPCThread(CL);
11962: SIRegister_TIPCMonitor(CL);
11963: SIRegister_TIPCCClient(CL);
11964: Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11965: end;
11966:
11967: (*-----*)
11968: procedure SIRegister_ALGSMComm(CL: TPSPPascalCompiler);
11969: begin
11970: SIRegister_TALGSMComm(CL);
11971: Function AlGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11972: Procedure AlGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
AMessage:AnsiString);
11973: Function AlGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11974: Function AlGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11975: function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11976: end;
11977:
11978: procedure SIRegister_ALHttpCommon(CL: TPSPPascalCompiler);
11979: begin
11980: TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11981: TALHTTPProtocolVersion', '( HTTPpv_1_0, HTTPpv_1_1 )
11982: TALHTTPMethod',(HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete);

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11983: TInternetScheme', 'integer
11984: TALIPv6Binary', 'array[1..16] of Char;
11985: // TALIPv6Binary = array[1..16] of AnsiChar;
11986: // TInternetScheme = Integer;
11987: SIRegister_TALHTTPRequestHeader(CL);
11988: SIRegister_TALHTTPCookie(CL);
11989: SIRegister_TALHTTPCookieCollection(CL);
11990: SIRegister_TALHTTPResponseHeader(CL);
11991: Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11992: Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11993: // Procedure ALExtractHTTPFields( Separators,WhiteSpace, Quotes:TSysCharSet,
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11994: // Procedure ALExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet, Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11995: // Procedure ALExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet,Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11996: Function AlRemoveSchemeFromUrl( aUrl : AnsiString ) : AnsiString
11997: Function AlExtractSchemeFromUrl( aUrl : AnsiString ) : TInternetScheme
11998: Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11999: Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
12000: Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
12001: Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
12002: Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
12003: Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean
12004: Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
12005: Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
12006: Function AlCombineUrl( RelativeUrl,BaseUrl : AnsiString ) : AnsiString;
12007: Function AlCombineUrl1(RelativeUrl,BaseUrl,Anchor : AnsiString; Query:TALStrings) : AnsiString;
12008: Function ALGmtDateToRfc822Str( const aValue : TDateTime ) : AnsiString
12009: Function ALDateToRfc822Str( const aValue : TDateTime ) : AnsiString
12010: Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
12011: Function ALRfc822StrToGMTDateTime( const s : AnsiString ) : TDateTime
12012: Function ALTryIPV4StrToNumeric( aIPv4Str : AnsiString; var aIPv4Num : Cardinal ) : Boolean
12013: Function ALIPV4StrToNumeric( aIPv4 : AnsiString ) : Cardinal
12014: Function ALNumericToIPV4Str( aIPv4 : Cardinal ) : AnsiString
12015: Function ALZeroIpV6 : TALIPv6Binary
12016: Function ALTryIPV6StrToBinary( aIPv6Str : AnsiString; var aIPv6Bin : TALIPv6Binary ) : Boolean
12017: Function ALIPV6StrToBinary( aIPv6 : AnsiString ) : TALIPv6Binary
12018: Function ALBinaryToIPV6Str( aIPv6 : TALIPv6Binary ) : AnsiString
12019: Function ALBinaryStrToIPV6Binary( aIPV6BinaryStr : AnsiString ) : TALIPv6Binary
12020: end;
12021;
12022: procedure SIRegister_ALFcnnHTML(CL: TPSPPascalCompiler);
12023: begin
12024: Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Bool;
12025: Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
12026: Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
12027: Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
12028: Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
12029: Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
useNumRef:bool):AnsiString;
12030: Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
12031: Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean) : AnsiString
12032: Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
12033: Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
12034: Procedure ALCompactHtmlTagParams( TagParams : TALStrings )
12035: end;
12036;
12037: procedure SIRegister_ALInternetMessageCommon(CL: TPSPPascalCompiler);
12038: begin
12039: SIRegister_TALEMailHeader(CL);
12040: SIRegister_TALNewsArticleHeader(CL);
12041: Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):AnsiString;
12042: Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
12043: Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
12044: Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
12045: Function AlGenerateInternetMessageID : AnsiString;
12046: Function AlGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
12047: Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
12048: Function AlDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
12049: end;
12050;
12051: (*-----*)
12052: procedure SIRegister_ALFcnnWinSock(CL: TPSPPascalCompiler);
12053: begin
12054: Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
12055: Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
12056: Function ALGetLocalIPs : TALStrings
12057: Function ALGetLocalHostName : AnsiString
12058: end;
12059;
12060: procedure SIRegister_ALFcnnCGI(CL: TPSPPascalCompiler);
12061: begin
12062: Procedure AlCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
TALWebRequest;ServerVariables:TALStrings);

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12063: Procedure AlCGIInitDefaultServerVariablesFromWebRequest(WebRequest: TALWebRequest; ServerVariables : TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12064: Procedure AlCGIInitDefaultServerVariables( ServerVariables : TALStrings);
12065: Procedure AlCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
  ScriptFileName:AnsiString;Url:AnsiStr;
12066: Procedure AlCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
  ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12067: Procedure AlCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
12068: Procedure AlCGIExec1( ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
  WebRequest : TALIsapiRequest;
  overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;'+'overloadedRequestContentStream:Tstream;var
  ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
12070: Procedure AlCGIExec2( ScriptName,ScriptFileName,Url,X_REWRITE_URL,
  InterpreterFilename:AnsiString;WebRequest : TALIsapiRequest; var ResponseContentString : AnsiString;
  ResponseHeader : TALHTTPResponseHeader);
12071: end;
12072:
12073: procedure SIRegister_ALFcnExecute(CL: TPSPascalCompiler);
12074: begin
12075:   TStartupInfoA', 'TStartupInfo
12076:   'SE_CREATE_TOKEN_NAME','String'( 'SeCreateTokenPrivilege
12077:   SE_ASSIGNPRIMARYTOKEN_NAME','String' 'SeAssignPrimaryTokenPrivilege
12078:   SE_LOCK_MEMORY_NAME','String'( 'SeLockMemoryPrivilege
12079:   SE_INCREASE_QUOTA_NAME','String' 'SeIncreaseQuotaPrivilege
12080:   SE_UNSOLICITED_INPUT_NAME','String' 'SeUnsolicitedInputPrivilege
12081:   SE_MACHINE_ACCOUNT_NAME','String' 'SeMachineAccountPrivilege
12082:   SE_TCB_NAME','String' 'SeTcbPrivilege
12083:   SE_SECURITY_NAME','String' 'SeSecurityPrivilege
12084:   SE_TAKE_OWNERSHIP_NAME','String' 'SeTakeOwnershipPrivilege
12085:   SE_LOAD_DRIVER_NAME','String' 'SeLoadDriverPrivilege
12086:   SE_SYSTEM_PROFILE_NAME','String' 'SeSystemProfilePrivilege
12087:   SE_SYSTEMTIME_NAME','String' 'SeSystemtimePrivilege
12088:   SE_PROF_SINGLE_PROCESS_NAME','String' 'SeProfileSingleProcessPrivilege
12089:   SE_INC_BASE_PRIORITY_NAME','String' 'SeIncreaseBasePriorityPrivilege
12090:   SE_CREATE_PAGEFILE_NAME','String' 'SeCreatePagefilePrivilege
12091:   SE_CREATE_PERMANENT_NAME','String' 'SeCreatePermanentPrivilege
12092:   SE_BACKUP_NAME','String' 'SeBackupPrivilege
12093:   SE_RESTORE_NAME','String' 'SeRestorePrivilege
12094:   SE_SHUTDOWN_NAME','String' 'SeShutdownPrivilege
12095:   SE_DEBUG_NAME','String' 'SeDebugPrivilege
12096:   SE_AUDIT_NAME','String' 'SeAuditPrivilege
12097:   SE_SYSTEM_ENVIRONMENT_NAME','String' 'SeSystemEnvironmentPrivilege
12098:   SE_CHANGE_NOTIFY_NAME','String' 'SeChangeNotifyPrivilege
12099:   SE_REMOTE_SHUTDOWN_NAME','String' 'SeRemoteShutdownPrivilege
12100:   SE_UNDOCK_NAME','String' 'SeUndockPrivilege
12101:   SE_SYNC_AGENT_NAME','String' 'SeSyncAgentPrivilege
12102:   SE_ENABLE_DELEGATION_NAME','String' 'SeEnableDelegationPrivilege
12103:   SE_MANAGE_VOLUME_NAME','String' 'SeManageVolumePrivilege
12104:   Function AlGetEnvironmentString : AnsiString
12105:   Function ALWinExec32(const FileName,CurrentDir,
  Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12106:   Function ALWinExec321(const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12107:   Function ALWinExecAndWait32(FileName : AnsiString; Visibility : integer) : DWORD
12108:   Function ALWinExecAndWait32V2(FileName : AnsiString; Visibility : integer) : DWORD
12109:   Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean) : Boolean
12110: end;
12111:
12112: procedure SIRegister_ALFcnFile(CL: TPSPascalCompiler);
12113: begin
12114:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
  RemoveEmptySubDirectory : Boolean; const FileNameMask : AnsiString; const MinFileAge : TdateTime):Boolean;
12115:   Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
  RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime) : Boolean;
12116:   Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
  FileNameMask : ansiString; const FailIfExists : Boolean) : Boolean
12117:   Function ALGetModuleName : ansistring
12118:   Function ALGetModuleFileNameWithoutExtension : ansistring
12119:   Function ALGetModulePath : ansistring
12120:   Function AlGetFileSize( const AFileName : ansistring) : int64
12121:   Function ALGetFileVersion( const AFileName : ansistring) : ansistring
12122:   Function ALGetFileCreationDateTime( const aFileName : Ansistring) : TDateTime
12123:   Function ALGetFileLastWriteDateTime( const aFileName : Ansistring) : TDateTime
12124:   Function ALGetFileLastAccessDateTime( const aFileName : Ansistring) : TDateTime
12125:   Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime)
12126:   Function ALIsdirectoryEmpty( const directory : ansiString) : boolean
12127:   Function ALFileExists( const Path : ansiString) : boolean
12128:   Function ALDirectoryExists( const Directory : Ansistring) : Boolean
12129:   Function ALCreateDir( const Dir : Ansistring) : Boolean
12130:   Function ALRemoveDir( const Dir : Ansistring) : Boolean
12131:   Function ALDeleteFile( const FileName : Ansistring) : Boolean
12132:   Function ALRenamefile( const OldName, NewName : ansistring) : Boolean
12133: end;
12134:
12135: procedure SIRegister_ALFcnMime(CL: TPSPascalCompiler);
12136: begin
12137:   NativeInt', 'Integer
12138:   NativeUInt', 'Cardinal

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12139: Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12140: Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12141: Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12142: Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12143: Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12144: Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12145: Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12146: Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12147: Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12148: Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt ) : NativeInt;
12149: Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt );
12150: + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12151: Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal ) : NativeInt;
12152: Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray);
12153: Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12154: Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray);
12155: Function ALMimeBase64Decodel(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray):NativeInt;
12156: Function ALMimeBase64DecodePartial1(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : NativeInt;
12157: Function ALMimeBase64DecodePartialEnd1(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal):NativeInt;
12158: Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName )
12159: Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName )
12160: Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName )
12161: Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream )
12162: Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream )
12163: Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream )
12164: +'cALMimeBase64_ENCODED_LINE_BREAK', 'LongInt'( 76 );
12165: +'cALMimeBase64_DECODED_LINE_BREAK', 'LongInt'( +cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3 );
12166: +'cALMimeBase64_BUFFER_SIZE', 'LongInt'( +cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4 );
12167: Procedure ALFillMimeContentByExtList( AMIMEList : TALStrings )
12168: Procedure ALFillExtByMimeContentTypeList( AMIMELIST : TALStrings )
12169: Function ALGetDefaultFileExtFromMimeType( aContentType : AnsiString ) : AnsiString
12170: Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString ) : AnsiString
12171: end;
12172:
12173: procedure SIRegister_ALXmlDoc(CL: TPPascalCompiler);
12174: begin
12175:   'CALXMLNodeMaxListSize', 'LongInt'( Maxint div 16 );
12176:   FindClass( 'TOBJECT' ), 'TALXMLNode
12177:   FindClass( 'TOBJECT' ), 'TALXMLNodelist
12178:   FindClass( 'TOBJECT' ), 'TALXMLDocument
12179:   TALXMLParseProcessingInstructionEvent', 'Procedure ( Sender:TObject; const Target,Data:AnsiString )
12180:   TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str : AnsiString )
12181:   TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co'
12182:     +'nst Name : AnsiString; const Attributes : TALStrings )
12183:   TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString )
12184:   TALXmlNodeType', '( ntReserved, ntElement, ntAttribute, ntText,
12185:     +'ntCDATA, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument,
12186:     +'ntDocType, ntDocFragment, ntNotation )
12187:   TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12188:   TALXMLDocOptions', 'set of TALXMLDocOption
12189:   TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12190:   TALXMLParseOptions', 'set of TALXMLParseOption
12191:   TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12192:   PALPointerXMLNodeList', '^PALPointerXMLNodeList // will not work
12193:   SIRegister_EALXMLDocError(CL);
12194:   SIRegister_TALXMLNodelist(CL);
12195:   SIRegister_TALXMLNode(CL);
12196:   SIRegister_TALXmlElementNode(CL);
12197:   SIRegister_TALXmlAttributeNode(CL);
12198:   SIRegister_TALXmlTextNode(CL);
12199:   SIRegister_TALXmlDocumentNode(CL);
12200:   SIRegister_TALXmlCommentNode(CL);
12201:   SIRegister_TALXmlProcessingInstrNode(CL);
12202:   SIRegister_TALXmlCDataNode(CL);
12203:   SIRegister_TALXmlEntityRefNode(CL);
12204:   SIRegister_TALXmlEntityNode(CL);
12205:   SIRegister_TALXmlDocTypeNode(CL);
12206:   SIRegister_TALXmlDocFragmentNode(CL);
12207:   SIRegister_TALXmlNotationNode(CL);
12208:   SIRegister_TALXMLDocument(CL);
12209:   cALXmLUTF8EncodingStr', 'String 'UTF-8
12210:   cALXmLUTF8HeaderStr', 'String '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>' +#13#10);
12211:   CALNSDelim', 'String ';
12212:   CALXML', 'String 'xml
12213:   CALVersion', 'String 'version
12214:   CALEncoding', 'String 'encoding
12215:   CALStandalone', 'String 'standalone

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12216: CALDefaultNodeIndent','String '
12217: CALXmlDocument','String 'DOCUMENT
12218: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TalXMLDocument
12219: Procedure ALClearXMLDocument( const rootname:AnsiString;xmldoc:TalXMLDocument;const
EncodingStr:AnsiString );
12220: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildnodeName,
ChildnodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12221: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildnodeName : AnsiString; const Recurse : Boolean ) : TalxmlNode
12222: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean):TalxmlNode
12223: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName,AttributeValue : AnsiString; const Recurse : Boolean ) : TalxmlNode
12224: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString ) :
AnsiString
12225: end;
12226:
12227: procedure SIRegister_TeCanvas(CL: TPSPascalCompiler);
12228: //based on TEEProc, TeCanvas, TEEEngine, TChart
12229: begin
12230: 'TeePiStep','Double').setExtended( Pi / 180.0 );
12231: 'TeeDefaultPerspective','LongInt'( 100 );
12232: 'TeeMinAngle','LongInt'( 270 );
12233: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12234: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12235: 'teeclCream','LongWord( TColor ( $F0FBFF ) );
12236: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ) );
12237: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12238: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12239: 'teeclCream','LongWord').SetUInt( TColor ( $F0FBFF ) );
12240: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ) );
12241: 'TA_LEFT','LongInt'( 0 );
12242: 'TA_RIGHT','LongInt'( 2 );
12243: 'TA_CENTER','LongInt'( 6 );
12244: 'TA_TOP','LongInt'( 0 );
12245: 'TA_BOTTOM','LongInt'( 8 );
12246: 'teePATCOPY','LongInt'( 0 );
12247: 'NumCirclePoints','LongInt'( 64 );
12248: 'teeDEFAULT_CHARSET','LongInt'( 1 );
12249: 'teeANTIALIASED_QUALITY','LongInt'( 4 );
12250: 'TA_LEFT','LongInt'( 0 );
12251: 'bs_Solid','LongInt'( 0 );
12252: 'teepf24bit','LongInt'( 0 );
12253: 'teepfDevice','LongInt'( 1 );
12254: 'CM_MOUSELEAVE','LongInt'( 10000 );
12255: 'CM_SYSCOLORCHANGE','LongInt'( 10001 );
12256: 'DC_BRUSH','LongInt'( 18 );
12257: 'DC_PEN','LongInt'( 19 );
12258: teeCOLORREF', 'LongWord
12259: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12260: //TNotifyEvent', 'Procedure ( Sender : TObject )
12261: SIRegister_TFilterRegion(CL);
12262: SIRegister_IFormCreator(CL);
12263: SIRegister_TTeeFilter(CL);
12264: //TFilterClass', 'class of TTeeFilter
12265: SIRegister_TConvolveFilter(CL);
12266: SIRegister_TBlurFilter(CL);
12267: SIRegister_TTeePicture(CL);
12268: SIRegister_TTeeFont(GL);
12269: TPenEndStyle', '( esRound, esSquare, esFlat )
12270: SIRegister_TChartPen(CL);
12271: SIRegister_TChartHiddenPen(CL);
12272: SIRegister_TDottedGrayPen(CL);
12273: SIRegister_TDarkGrayPen(CL);
12274: SIRegister_TWhitePen(CL);
12275: SIRegister_TChartBrush(CL);
12276: TTeeView3DScrolled', 'Procedure ( IsHoriz : Boolean)
12277: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12278: SIRegister_TView3DOptions(CL);
12279: FindClass('TOBJECT'), 'TTeeCanvas
12280: TTeeTransparency', 'Integer
12281: SIRegister_TTeeBlend(CL);
12282: FindClass('TOBJECT'), 'TCanvas3D
12283: SIRegister_TTeeShadow(CL);
12284: teeTGradientDirection',(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )
12285: FindClass('TOBJECT'), 'TSubGradient
12286: SIRegister_TCustomTeeGradient(CL);
12287: SIRegister_TSubGradient(CL);
12288: SIRegister_TTeeGradient(CL);
12289: SIRegister_TTeeFontGradient(CL);
12290: SIRegister_TTeeFont(CL);
12291: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12292: TCanvasTextAlign', 'Integer
12293: TTeeCanvasHandle', 'HDC
12294: SIRegister_TTeeCanvas(CL);
12295: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12296: SIRegister_TFloatXYZ(CL);
12297: TPoint3D', 'record x : integer; y : integer; z : Integer; end

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12298: TRGB', 'record blue: byte; green: byte; red: byte; end
12299: {TRGB=packed record
12300:   Blue : Byte;
12301:   Green : Byte;
12302:   Red : Byte;
12303: //$$IFDEF CLX //Alpha : Byte; // Linux end;}
12304:
12305: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12306:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12307: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12308: TCanvas3DPlane', '( cpX, cpY, cpZ )
12309: //IInterface', 'IUnknown
12310: SIRegister_TCanvas3D(CL);
12311: SIRegister_TTeeCanvas3D(CL);
12312: TTrianglePoints', 'Array[0..2] of TPoint;
12313: TFourPoints', 'Array[0..3] of TPoint;
12314: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12315: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12316: Function Point3D( const x, y, z : Integer) : TPoint3D
12317: Procedure SwapDouble( var a, b : Double)
12318: Procedure SwapInteger( var a, b : Integer)
12319: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12320: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12321: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12322: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12323: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12324: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12325: Procedure UnClipCanvas( ACanvas : TCanvas)
12326: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12327: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12328: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12329: 'TeeCharForHeight','String 'W
12330: 'DarkerColorQuantity','Byte').SetUInt( 128);
12331: 'DarkColorQuantity','Byte').SetUInt( 64);
12332: TButtonGetColorProc', 'Function : TColor
12333: SIRegister_TTeeButton(CL);
12334: SIRegister_TButtonColor(CL);
12335: SIRegister_TComboFlat(CL);
12336: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12337: Function TeePoint( const ax, ay : Integer) : TPoint
12338: Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12339: Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12340: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12341: Function OrientRectangle( const R : TRect) : TRect
12342: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12343: Function PolygonBounds( const P : array of TPoint) : TRect
12344: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12345: Function RGBValue( const Color : TColor) : TRGB
12346: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12347: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12348: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12349: Function TeeCull( const P : TFourPoints) : Boolean;
12350: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12351: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12352: Procedure SmoothStretch( Src, Dst : TBitmap);
12353: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12354: Function TeeDistance( const x, y : Double) : Double
12355: Function TeeLoadLibrary( const FileName : String) : HInst
12356: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12357: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12358: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap)
12359: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12360: SIRegister_ICanvasHyperlinks(CL);
12361: SIRegister_ICanvasToolTips(CL);
12362: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12363: end;
12364:
12365: procedure SIRegister_ovcmisc(CL: TPPSPascalCompiler);
12366: begin
12367:   TOvcHdc', 'Integer
12368:   TOvcHWND', 'Cardinal
12369:   TOvcHdc', 'HDC
12370:   TOvcHWND', 'HWNDF
12371: Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12372: Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR
12373: Function ovCompStruct( const S1, S2, Size : Cardinal) : Integer
12374: Function DefaultEpoch : Integer
12375: Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12376: Procedure FixRealPrim( P : PChar; DC : Char)
12377: Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer) : string
12378: Function GetLeftButton : Byte
12379: Function GetNextDlgItem( Ctrl : TOvcHWnd) : hWnd
12380: Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte)
12381: Function GetShiftFlags : Byte
12382: Function ovCreateRotatedFont( F : TFont; Angle : Integer) : hFont
12383: Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12384: Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet) : string
12385: Function ovIsForegroundTask : Boolean

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12386: Function ovTrimLeft( const S : string ) : string
12387: Function ovTrimRight( const S : string ) : string
12388: Function ovQuotedStr( const S : string ) : string
12389: Function ovWordCount( const S : string; const WordDelims : TCharSet ) : Integer
12390: Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12391: Function PtrDiff( const P1, P2 : PChar ) : Word
12392: Procedure PtrInc( var P, Delta : Word )
12393: Procedure PtrDec( var P, Delta : Word )
12394: Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer )
12395: Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer )
12396: Function ovMinI( X, Y : Integer ) : Integer
12397: Function ovMaxI( X, Y : Integer ) : Integer
12398: Function ovMinL( X, Y : LongInt ) : LongInt
12399: Function ovMaxL( X, Y : LongInt ) : LongInt
12400: Function GenerateComponentName( PF : TwinControl; const Root : string ) : string
12401: Function PartialCompare( const S1, S2 : string ) : Boolean
12402: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12403: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12404: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12405: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
TransparentColor : TColor )
12406: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width:Int;Rect:TRect;
TransparentColor : TColorRef)
12407: Function ovWidthOf( const R : TRect ) : Integer
12408: Function ovHeightOf( const R : TRect ) : Integer
12409: Procedure ovDebugOutput( const S : string )
12410: Function GetArrowWidth( Width, Height : Integer ) : Integer
12411: Procedure StripCharSeq( CharSeq : string; var Str : string )
12412: Procedure StripCharFromEnd( aChr : Char; var Str : string )
12413: Procedure StripCharFromFront( aChr : Char; var Str : string )
12414: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12415: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12416: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12417: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12418: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12419: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12420: Function CreateMetaFile( p1 : PChar ) : HDC
12421: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12422: Function DrawText(hdc:HDC;lpString:PChar;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12423: Function DrawTextS(hdc:HDC;lpString:string;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12424: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12425: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12426: Function SetMapMode( DC : HDC; p2 : Integer ) : Integer
12427: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12428: //Function SetPaletteEntries(Palette:HPalette;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12429: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12430: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12431: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12432: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12433: Function StretchBlt(DestDC:HDC;X,Y,Width,Height:Int;SrcDC:HDC;XSrc,YSrc,SrcWidth,
SrcHeight:Int;Rop:DWORD):BOOL
12434: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12435: Function StretchDIBits(DC : HDC; DestX,DestY,DestWidth,DestHeight,SrcX,SrcY,SrcWidth,
SrcHeight:Int;Bits:int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD ) : Integer
12436: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12437: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12438: Function SetSystemPaletteUse( DC : HDC; p2 : UINT ) : UINT
12439: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12440: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12441: Function SetTextAlign( DC : HDC; Flags : UINT ) : UINT
12442: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12443: Function UpdateColors( DC : HDC ) : BOOL
12444: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12445: Function GetViewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12446: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12447: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12448: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12449: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12450: Function MaskBlt(DestDC:HDC; XDest, YDest,Width,Height:Integer; SrcDC : HDC; XScr, YScr : Integer; Mask : HBITMAP;
xMask, yMask : Integer; Rop : DWORD ) : BOOL
12451: Function PlgBlt(DestDC:HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,
yMask:Int):BOOL;
12452: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12453: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12454: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD ) : BOOL
12455: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12456: Function PlayMetafile( DC : HDC; MF : HMETAFILE ) : BOOL
12457: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12458: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12459: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12460: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12461: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12462: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12463: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12464: end;
12465:
12466: procedure SIRegister_ovcfiler(CL: TPPSPascalCompiler);
12467: begin

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12468:   SIRegister_TOvcAbstractStore(CL);
12469:   //PExPropInfo', '^TExPropInfo // will not work
12470: //  TExPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12471:   SIRegister_TOvcPropertyList(CL);
12472:   SIRegister_TOvcDataFiler(CL);
12473:   Procedure UpdateStoredList( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean)
12474:   Procedure UpdateStoredList1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean)
12475:   Function CreateStoredItem( const CompName, PropName : string) : string
12476:   Function ParseStoredItem( const Item : string; var CompName, PropName : string) : Boolean
12477:   //Function GetPropType( PropInfo : PExPropInfo ) : PTypeInfo
12478: end;
12479:
12480: procedure SIRegister_ovccoco(CL: TPSPPascalCompiler);
12481: begin
12482:   'ovsetsize','LongInt'( 16 );
12483:   'etSyntax','LongInt'( 0 );
12484:   'etSemantic','LongInt'( 1 );
12485:   'chCR','Char #13';
12486:   'chLF','Char #10';
12487:   'chLineSeparator',' chCR';
12488:   SIRegister_TCocoError(CL);
12489:   SIRegister_TCommentItem(CL);
12490:   SIRegister_TCommentList(CL);
12491:   SIRegister_TSsymbolPosition(CL);
12492:   TGenListType', ' ( glNever, glAlways, glOnError )
12493:   TovBitSet', 'set of Integer
12494:   //PStartTable', '^TStartTable // will not work
12495:   'TovCharSet', 'set of AnsiChar
12496:   TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12497:   TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12498:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12499:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12500:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSsymbolP'
12501:     +'osition; const Data : string; ErrorType : integer)
12502:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12503:   TGetCH', 'Function ( pos : longint ) : char
12504:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12505:   SIRegister_TCocoRScanner(CL);
12506:   SIRegister_TCocoRGrammar(CL);
12507:   '_EF','Char #0);
12508:   '_TAB','Char ').SetString( #09);
12509:   '_CR','Char ').SetString( #13);
12510:   '_LF','Char ').SetString( #10);
12511:   '_EL','').SetString( _CR);
12512:   '_EOF','Char ').SetString( #26);
12513:   'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12514:   'minErrDist','LongInt'( 2 );
12515:   Function ovPadL( S : string; ch : char; L : integer ) : string
12516: end;
12517:
12518:   TFormSettings = record
12519:     CurrencyFormat: Byte;
12520:     NegCurrFormat: Byte;
12521:     ThousandSeparator: Char;
12522:     DecimalSeparator: Char;
12523:     CurrencyDecimals: Byte;
12524:     DateSeparator: Char;
12525:     TimeSeparator: Char;
12526:     ListSeparator: Char;
12527:     CurrencyString: string;
12528:     ShortDateFormat: string;
12529:     LongDateFormat: string;
12530:     TimeAMString: string;
12531:     TimePMString: string;
12532:     ShortTimeFormat: string;
12533:     LongTimeFormat: string;
12534:     ShortMonthNames: array[1..12] of string;
12535:     LongMonthNames: array[1..12] of string;
12536:     ShortDayNames: array[1..7] of string;
12537:     LongDayNames: array[1..7] of string;
12538:     TwoDigitYearCenturyWindow: Word;
12539:   end;
12540:
12541: procedure SIRegister_OvcFormatSettings(CL: TPSPPascalCompiler);
12542: begin
12543:   Function ovFormatSettings : TFormSettings
12544: end;
12545:
12546: procedure SIRegister_ovcstr(CL: TPSPPascalCompiler);
12547: begin
12548:   TOvcCharSet', 'set of Char
12549:   ovBTable', 'array[0..255] of Byte
12550:   //BTable = array[0 .. {$IFDEF UNICODE}{$ENDIF}{$ELSE}{$ENDIF}{$ENDIF} ] of Byte;
12551:   Function BinaryBPChar( Dest : PChar; B : Byte) : PChar
12552:   Function BinaryLPChar( Dest : PChar; L : LongInt) : PChar
12553:   Function BinaryWPChar( Dest : PChar; W : Word) : PChar
12554:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable)
12555:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;

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12556: Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12557: Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12558: Function DetabPChar( Dest : PChar; Src : PChar; TabSize : Byte) : PChar
12559: Function HexBPCchar( Dest : PChar; B : Byte) : PChar
12560: Function HexLPChar( Dest : PChar; L : LongInt ) : PChar
12561: Function HexPtrPChar( Dest : PChar; P : TObject ) : PChar
12562: Function HexWPChar( Dest : PChar; W : Word) : PChar
12563: Function LoCaseChar( C : Char ) : Char
12564: Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12565: Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12566: Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal ) : PChar
12567: Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12568: Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)
12569: Function StrSCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12570: Function StrSDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12571: Function StrSInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12572: Function StrSInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12573: Function StrSPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12574: Function StrToLongPChar( S : PChar; var I : LongInt ) : Boolean
12575: Procedure TrimAllSpacesPChar( P : PChar )
12576: Function TrimEmbeddedZeros( const S : string ) : string
12577: Procedure TrimEmbeddedZerosPChar( P : PChar )
12578: Function TrimTrailPrimPChar( S : PChar ) : PChar
12579: Function TrimTailPChar( Dest, S : PChar ) : PChar
12580: Function TrimTrailingZeros( const S : string ) : string
12581: Procedure TrimTrailingZerosPChar( P : PChar )
12582: Function UpCaseChar( C : Char ) : Char
12583: Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12584: Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12585: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal ) : Boolean;
12586: end;
12587:
12588: procedure SIRegister_AfUtils(CL: TPPascalCompiler);
12589: begin
12590:   //PRaiseFrame', '^TRaiseFrame // will not work
12591:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12592:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12593:   Procedure SafeCloseHandle( var Handle : THandle )
12594:   Procedure ExchangeInteger( X1, X2 : Integer )
12595:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12596:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12597:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12598:
12599: FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12600:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12601: function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12602:   function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12603:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12604:   SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12605:   const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12606:   var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12607:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12608:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12609:   SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12610:   AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12611:   ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12612:   var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12613:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12614:   HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12615:   SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12616:   AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12617:   ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12618:   var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12619:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12620:   function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12621:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12622:   lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12623:   lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12624:   dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12625:   const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12626:   function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12627:   function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12628:   pSecurityDescriptor: PSecurityDescriptor;nLength:DWORD;var lpnLengthNeeded: DWORD):BOOL; stdcall;
12629:   function GetUserName(lpBuffer: PKOLOChar; var nSize: DWORD): BOOL; stdcall;
12630:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLOChar;
12631:   dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12632:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLOChar;
12633:   dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12634:   function LookupAccountName(lpSystemName, lpAccountName: PKOLOChar;
12635:   Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLOChar;
12636:   var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12637:   function LookupAccountSid(lpSystemName: PKOLOChar; Sid: PSID;
12638:   Name: PKOLOChar; var cbName: DWORD; ReferencedDomainName: PKOLOChar;
12639:   var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12640:   function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLOChar;
12641:   lpDisplayname: PKOLOChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12642:   function LookupPrivilegeName(lpSystemName: PKOLOChar;
12643:   var lpLuid: TLargeInteger; lpName: PKOLOChar; var cbName: DWORD): BOOL; stdcall;
12644:   function LookupPrivilegeValue(lpSystemName, lpName: PKOLOChar;

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12645:     var lpLuid: TLargeInteger): BOOL; stdcall;
12646:     function ObjectCloseAuditAlarm(SubSystemName: PKOLChar;
12647:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12648:     function ObjectDeleteAuditAlarm(SubSystemName: PKOLChar;
12649:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12650:     function ObjectOpenAuditAlarm(SubSystemName: PKOLChar; HandleId: Pointer;
12651:         ObjectTypeName: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12652:         ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12653:         var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12654:         var GenerateOnClose: BOOL): BOOL; stdcall;
12655:     function ObjectPrivilegeAuditAlarm(SubSystemName: PKOLChar;
12656:         HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12657:         var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12658:     function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12659:     function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12660:     function PrivilegedServiceAuditAlarm(SubSystemName, ServiceName: PKOLChar;
12661:         ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12662:     function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12663:         lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12664:         var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12665:     function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12666:         var phkResult: HKEY): Longint; stdcall;
12667:     function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12668:         var phkResult: HKEY): Longint; stdcall;
12669:     function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12670:         Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12671:         lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12672:         lpdwDisposition: PDWORD): Longint; stdcall;
12673:     function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12674:     function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12675:     function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12676:         var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12677:         lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12678:     function RegEnumKey(hKey:HKEY; dwIndex:DWORD; lpName:PKOLChar; cbName:DWORD):Longint;stdcall;
12679:     function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12680:         var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12681:         lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12682:     function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12683:     function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12684:     function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12685:         ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12686:     function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12687:         lpcbClass: PDWORD; lpReserved: Pointer;
12688:         lpcbSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12689:         lpcb.MaxValueNameLen, lpcb.MaxValueLen, lpcbSecurityDescriptor: PDWORD;
12690:         lpftLastWriteTime: PFileTime): Longint; stdcall;
12691:     function RegQueryMultipleValues(hKey: HKEY; var ValList;
12692:         NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12693:     function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12694:         lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12695:     function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12696:         lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12697:     function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12698:         lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12699:     function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12700:     function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12701:         lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12702:     function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12703:         dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12704:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12705:         Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12706:     function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12707:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12708:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12709:         dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12710:         dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12711:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12712:         pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12713:
12714:     Function wAddAtom( lpString : PKOLChar ) : ATOM
12715:     Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL ) : THandle
12716: //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12717: lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeOut : DWORD ) : BOOL
12718: //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12719:     Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12720:         lpString2 : PKOLChar; cchCount2 : Integer ) : Integer
12721:     Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12722: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12723: TFnProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL
12724:     Function wCreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12725:     Function wCreateDirectoryEx(lpTemplateDirectory,
12726:         lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttribs):BOOL;
12727:     Function wCreateEvent(lpEventAttributes:PSecurityAttrib:bManualReset,
12728:         bInitialState:BOOL;lpName:PKOLChar):THandle;
12729:     Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
12730:         PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD;hTemplateFile:THandle):THandle
12731:     Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; flProtect,
12732:         dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12733:     Function wCreateHardLink(lpFileName,
12734:         lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL

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12727: Function CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle;
12728: Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12729: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
Pointer;lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var lpProcessInfo:TProcessInformation):BOOL
12730: Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
Longint; lpName : PKOLChar) : THandle
12731: Function wCreateWaitableTimer(lpTimerAttrbs:PSecurityAttrbs;bManualReset:BOOL;lpTimerName:PKOLChar):THandle;
12732: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12733: Function wDeleteFile( lpFileName : PKOLchar ) : BOOL
12734: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12735: //Function wEnumCalendarInfo(lpCalInfEnumProc:TFNCalInfEnumProc;Locale:LCID;Calendar:CALID;CalType:CALTYPE):BOOL;
12736: //Function wEnumDateFormats(lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD) : BOOL
12737: //Function wEnumResourceNames(hModule:HMODULE;lpType:PKOLChar;lpEnumFunc:ENUMRESNAMEPROC;lpParam:Longint):BOOL;
12738: //Function wEnumResourceTypes( hModule:HMODULE; lpEnumFunc:ENUMRESTYPEPROC;lpParam:Longint):BOOL;
12739: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD ) : BOOL
12740: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD ) : BOOL
12741: //Function wEnumTimeFormats(lpTimeFmtEnumProc:TFNTimeFmtEnumProc;Locale:LCID;dwFlags:DWORD):BOOL;
12742: Function wExpandEnvironmentStrings( lpSrc : PKOLchar; lpDst : PKOLchar; nSize : DWORD ) : DWORD
12743: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLchar )
12744: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLchar; nLength : DWORD;
dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12745: Function wFindAtom( lpString : PKOLchar ) : ATOM
12746: Function wFindFirstChangeNotification(lpPathName:PKOLchar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD):THandle;
12747: Function wFindFirstFile( lpFileName : PKOLchar; var lpFindFileData : TWIN32FindData ) : THandle
12748: //Function wFindFirstFileEx( lpFileName : PKOLchar; fInfoLevelId : TFindIndexInfoLevels; lpFindFileData :
Pointer; fSearchOp : TFindIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12749: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData ) : BOOL
12750: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLchar ) : HRSRC
12751: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLchar; wLanguage : Word ) : HRSRC
12752: Function wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLchar;cchSrc:Int;lpDestStr:PKOLchar;cchDest:Integer):Integer;
12753: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLchar; nSize : DWORD; Arguments : Pointer ) : DWORD
12754: Function wFreeEnvironmentStrings( EnvBlock : PKOLchar ) : BOOL
12755: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLchar; nSize : Integer ) : UINT
12756: Function wGetBinaryType( lpApplicationName : PKOLchar; var lpBinaryType : DWORD ) : BOOL
12757: Function wGetCommandLine : PKOLchar
12758: //Function wGetCompressedFileSize( lpFileName : PKOLchar; lpFileSizeHigh : PDWORD ) : DWORD
12759: Function wGetComputerName( lpBuffer : PKOLchar; var nSize : DWORD ) : BOOL
12760: Function wGetConsoleTitle( lpConsoleTitle : PKOLchar; nSize : DWORD ) : DWORD
12761: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLchar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLchar; cchCurrency : Integer ) : Integer
12762: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLchar ) : DWORD
12763: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLchar;
lpDateStr : PKOLchar; cchDate : Integer ) : Integer
12764: //Function wGetDefaultCommConfig( lpszName:PKOLchar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12765: Function wGetDiskFreeSpace( lpRootPathName : PKOLchar; var lpSectorsPerCluster, lpBytesPerSector,
lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12766: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLchar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL
12767: Function wGetDriveType( lpRootPathName : PKOLchar ) : UINT
12768: Function wGetEnvironmentStrings : PKOLchar
12769: Function wGetEnvironmentVariable( lpName : PKOLchar; lpBuffer : PKOLchar; nSize : DWORD ) : DWORD;
12770: Function wGetFileAttributes( lpFileName : PKOLchar ) : DWORD
12771: //Function wGetFileAttributesEx(lpFileName:PKOLchar,fInfoLevelId:TGetFileExInfoLevs;lpFileInform:Pointer):BOOL;
12772: Function wGetFullPathName(lpFileName:PKOLchar;nBufferLeng:WORD;lpBuffer:PKOLchar;var lpFilePart:PKOLchar):DWORD;
12773: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:LCTYPE;lpLCDData:PKOLchar;cchData:Integer): Integer
12774: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLchar ) : DWORD
12775: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLchar; nSize : DWORD ) : DWORD
12776: Function wGetModuleHandle( lpModuleName : PKOLchar ) : HMODULE
12777: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
lpCollectDataTimeout : PDWORD; lpUserName : PKOLchar; nMaxUserNameSize : DWORD ) : BOOL
12778: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLchar; lpFormat:PNumberFmt;
lpNumberStr : PKOLchar; cchNumber : Integer ) : Integer
12779: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLchar;nDefault:Integer;lpFileName:PKOLchar):UINT;
12780: Function wGetPrivateProfileSection(lpAppName:PKOLchar;lpRetrStr:PKOLchar;nSize:DWORD;pFileName:PKOLchar):DWORD;
12781: Function wGetPrivateProfileSectionNames(lpszReturnBuffer:PKOLchar;nSize:DWORD;lpFileName:PKOLchar):DWORD;
12782: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLchar;lpReturnedStr: PKOLchar;
nSize:DWORD; lpFileName : PKOLchar ) : DWORD
12783: Function wGetProfileInt( lpAppName, lpKeyName : PKOLchar; nDefault : Integer ) : UINT
12784: Function wGetProfileSection( lpAppName : PKOLchar; lpReturnedString : PKOLchar; nSize : DWORD ) : DWORD
12785: Function wGetProfileString(lpAppName,lpKeyName,
lpDefault:PKOLchar;lpReturnedStr:PKOLchar;nSize:DWORD):DWORD;
12786: Function wGetShortPathName( lpszLongPath:PKOLchar;lpszShortPath: PKOLchar; cchBuffer : DWORD ) : DWORD
12787: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo )
12788: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLchar;cchSrc:Integer;var
lpCharType):BOOL
12789: Function wGetSystemDirectory( lpBuffer : PKOLchar; uSize : UINT ) : UINT

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12790: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar; uUnique:UINT; lpTempFileName:PKOLChar ) :UINT
12791: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12792: //Function
12793: wGetTimeFormat(Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12794: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
12795: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize : DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
12796: lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD) : BOOL
12797: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12798: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12799: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12800: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12801: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12802: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12803: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12804: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12805: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine : TFnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12806: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName:PKOLChar ) : THandle
12807: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar ):THandle
12808: Function WOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12809: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ):THandle
12810: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12811: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12812: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
12813: lpNumberOfEventsRead:DWORD):BOOL;
12814: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12815: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12816: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
12817: lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12818: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
12819: lpNumOfEventsRead:DWORD):BOOL;
12820: //Function wScrollConsoleBuffer( hConsoleOutput : THandle; lpScrollRectangle : TSmallRect;
12821: lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12822: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
12823: lpFilePart:PKOLChar):DWORD;
12824: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12825: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12826: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12827: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12828: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12829: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12830: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDData : PKOLChar ) : BOOL
12831: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12832: //Function wUpdateResource(hUpdate:THandle;lpType,
12833: lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12834: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12835: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12836: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite : DWORD;
12837: var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12838: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
12839: var lpNumberOfEventsWritten : DWORD ) : BOOL
12840: //Function wWriteConsoleOutput( hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
12841: TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12842: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12843: DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12844: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12845: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12846: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12847: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12848: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12849: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12850: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12851: Function wlstrcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12852: Function wlstrncpy( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12853: Function wlstrnlen( lpString : PKOLchar ) : Integer
12854: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruct :
12855: PNetConnectInfoStruct ) : DWORD
12856: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
12857: lpUserName:PKOLchar;dwFlags:DWORD):DWORD;
12858: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12859: lpUserName:PKOLchar; dwFlags : DWORD ) : DWORD
12860: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12861: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12862: Function wWNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12863: //Function wWNetConnectionDialog( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12864: //Function wWNetDisconnectDialog( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12865: //Function wWNetEnumResource(hEnum:THandle;var lpcCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12866: Function wWNetGetConnection(lpLocalName:PKOLchar;lpRemoteName:PKOLchar; var lpnLength:DWORD):DWORD;
12867: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLchar; nErrorBufSize : DWORD; lpNameBuf
12868: : PKOLchar; nNameBufSize : DWORD ) : DWORD

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12858: //Function wWNetGetNetworkInformation( lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12859: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12860: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12861: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12862: lpBufferSize:DWORD):DWORD;
12862: Function wWNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12863: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12864: // Function wWNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12865: //Function wWNetUseConnection(hwndOwner:HWND;var
12866: lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
12867: lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12866: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12867: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12868: Function wVerFindfile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
12869: lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT ) : DWORD
12869: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
12870: szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12870: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12871: //Func wGetPrivateProfileStruct(lpszSection,
12872: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12872: //Func wWritePrivateProfileStruct(lpszSection,
12873: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12873: Function wAddFontResource( FileName : PKOLChar ) : Integer
12874: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : Integer
12875: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12876: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12877: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12878: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvminit : PDeviceMode ) : HDC
12879: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC
12880: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
12881: fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
12882: fdwPitchAndFamily:DWORD;lpszFace:PKOLChar ):HFONT
12881: Function wCreateFontIndirect( const p1 : TLogFont ) : HFONT
12882: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV ) : HFONT
12883: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvminit : PDeviceMode ) : HDC
12884: Function wCreateMetaFile( p1 : PKOLChar ) : HDC
12885: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12886: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12887: pPort:PKOLChar;iIdx:Int;out:PKOLChar;DevMod:PDeviceMode):Int;
12887: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFnFontEnumProc; p4 : LPARAM ) : BOOL
12888: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12889: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fntemprc:TFNFontEnumProc;lpszData:PKOLChar):Integer;
12890: //Function wEnumICMPProfiles( DC : HDC; ICMPProc : TFNICMEnumProc; p3 : LPARAM ) : Integer
12891: //Function wExtTextOut(DC:HDC;X,
12892: Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12892: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12893: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts ) : BOOL
12894: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12895: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12896: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12897: // Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3:p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12898: Function wGetEnhMetaFile( p1 : PKOLChar ) : HENHMETAFILE
12899: Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar ) : UINT
12900: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD ) : DWORD
12901: // Function wGetGlyphOutline( DC : HDC; uChar, uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD;
12901: lpvBuffer : Pointer; const lpmat2 : TMat2 ) : DWORD
12902: Function wGetICMPProfile( DC : HDC; var Size : DWORD; Name : PKOLChar ) : BOOL
12903: // Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12904: Function wGetMetaFile( p1 : PKOLChar ) : HMETAFILE
12905: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12906: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12907: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSIZE):BOOL
12908: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12909: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12910: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12911: //Function wGetTextMetrics( DC : HDC; var TM : TTTextMetric ) : BOOL
12912: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12913: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12914: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12915: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12916: Function wSetICMPProfile( DC : HDC; Name : PKOLChar ) : BOOL
12917: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12918: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12919: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UINT ) : BOOL
12920: Function wwg1UseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD ) : BOOL
12921: //Function wwg1UseFontOutlines(p1:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12922: Function wAppendMenu( hMenu : HMENU; uFlags, uidNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12923: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL
12924: //Function
12924: wCallWindowProc( lpPrevWndFunc:TFNWndProc,hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12925: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12926: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode : TDeviceMode; wnd : HWND;
12926: dwFlags : DWORD; lParam : Pointer ) : Longint
12927: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12928: Function wCharLower( lpsz : PKOLChar ) : PKOLChar
12929: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12930: Function wCharNext( lpsz : PKOLChar ) : PKOLChar
12931: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12932: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLChar

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12933: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12934: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12935: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12936: Function wCharUpper( lpsz : PKOLChar ) : PKOLChar
12937: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12938: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer ) : Integer
12939: Function wCreateAcceleratorTable( var Accel, Count : Integer ) : HACCEL
12940: //Function wCreateDesktop(lpszDesktop,
12941: lpszDevice:PKOLChar;pDevMode:PDWORD;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12942: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
12943: HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12944: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
12945: lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12946: Function wCreateMDIWindow( lpClassName : PKOLChar; dwStyle : DWORD; X,Y,nWidth,nHeight : Integer;
12947: hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12948: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle WORD;X,Y,
12949: nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND
12950: //Function wCreateWindowStation(lpinsta:PKOLChar;dwReserv,
12951: dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12952: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12953: Function wDefFrameProc( hWnd, hWndMDIClient : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12954: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12955: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12956: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent :
12957: : HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12958: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
12959: : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12960: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12961: Function wDlgDirList( hDlg : HWND; lpPathSpec : PKOLChar; nIDListBox,
nIDStaticPath : Integer; uFileType : UInt ) : Integer;
12962: Function wDlgDirListComboBox( hDlg : HWND; lpPathSpec : PKOLChar; nIDComboBox,
nIDStaticPath : Int; uFileType : UInt ) : Int;
12963: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDComboBox : Integer ) : BOOL
12964: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12965: //FuncwDrawState(DC:HDC;Brush:HBRUSH;CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
12966: cy:Int;Flags:UINT):BOOL;
12967: Function wDrawText( hDC : HDC; lpString : PKOLChar; nCount : Integer; var lpRect : TRect; uFormat : UInt ) : Integer;
12968: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12969: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12970: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int;var
12971: pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12972: // Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12973: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12974: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12975: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer ) : Integer
12976: Function wGetClipboardFormatName( format : UInt; lpszFormatName : PKOLChar; cchMaxCount : Integer ) : Integer;
12977: Function wGetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar; nMaxCount : Integer; uFlag : UInt ) : Integer;
12978: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12979: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12980: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UInt; p3 : Bool; var p4 : TMenuItemInfo ) : Bool
12981: Function wGetMenuItemString( hMenu : HMENU; uIDItem : UInt; lpString : PKOLChar; nMaxCount : Integer; uFlag : UInt ) : Integer;
12982: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UInt ) : Bool
12983: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12984: //Function wGetTabbedTextExtent( hDC : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
12985: lpnTabStopPositions ) : DWORD
12986: //Function wGetUserObjectInform( hObj : THandle; nIndex : Int; pvInfo : Ptr; nLength : DWORD; var
12987: lpnLengthNeed : DWORD ) : Bool;
12988: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12989: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UInt ) : UInt
12990: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12991: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12992: //Function wGetString(hDC:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARA;nCnt,X,Y,nWidt,
12993: nHeigt:Int):BOOL;
12994: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UInt; lpNewItem : PKOLChar ) : Bool
12995: //Function wInsertMenuItem( p1 : HMENU; p2 : UInt; p3 : Bool; const p4 : TMenuItemInfo ) : Bool
12996: Function wIsCharAlpha( ch : KOLChar ) : Bool
12997: Function wIsCharAlphaNumeric( ch : KOLChar ) : Bool
12998: Function wIsCharLower( ch : KOLChar ) : Bool
12999: Function wIsCharUpper( ch : KOLChar ) : Bool
13000: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : Bool
13001: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
13002: Function wLoadBitmap( hInst : HINST; lpBitmapName : PKOLChar ) : HBITMAP
13003: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
13004: Function wLoadIcon( hInst : HINST; lpIconName : PKOLChar ) : HICON
13005: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
13006: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UInt ) : HKL
13007: Function wLoadMenu( hInst : HINST; lpMenuName : PKOLChar ) : HMENU
13008: //Function wLoadMenuItemIndirect( lpMenuTemplate : Pointer ) : HMENU
13009: Function wLoadString(hInst:INST;uID: UInt; lpBuffer :PKOLChar;nBufferMax:Integer):Integer
13010: Function wMapVirtualKey( uCode, uMapType : UInt; dwhkl : HKL ) : UInt
13011: Function wMessageBoxEx( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UInt; wLanguageId : Word ) : Integer
13012: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : Bool
13013: Function wModifyMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UInt; lpNewItem : PKOLChar ) : Bool
13014: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : Bool
13015: //Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : Bool
13016: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : Bool

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13007: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD) : BOOL
13008: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD) : HDESK
13009: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD) : HWINSTA
13010: Function wPeekMessage( var lpMsg : TMsg; hWnd: HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ) : BOOL
13011: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
13012: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
13013: Function wRealGetWindowClass( hWnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
13014: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
13015: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
13016: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
13017: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
13018: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
13019: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
13020: Function wSendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13021: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
13022: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL
13023: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
lpdwResult:DWORD) : LRESULT
13024: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
13025: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
13026: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
13027: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
13028: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
13029: // Function wSetUserObjectInformation(hObject:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
13030: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
13031: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
13032: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
13033: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
13034: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL
13035: Function wTabbedTextOut(hdc:HDC;x,y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
lpnTabStopPositions,nTabOrigin:Int):Longint;
13036: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
13037: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
13038: Function wVKeyScan( ch : KOLChar ) : SHORT
13039: Function wVKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
13040: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
13041: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
13042: Function wvvsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
13043:
13044: //TestDrive!
13045: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL'
13046: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString('ConvertSidToStringSidA'
13047: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
13048: Function GetlocalUserSidStr( const UserName : string ) : string
13049: Function getPid4user( const domain : string; const user : string; var pid : dword ) : boolean
13050: Function Impersonate2User( const domain : string; const user : string ) : boolean
13051: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
13052: Function KillProcessbyname( const exename : string; var found : integer ) : integer
13053: Function getWinProcessList : TStringList
13054: function WaitTilClose(hWnd: Integer): Integer;
13055: function DoUserMsgs: Boolean;
13056: function MsgFunc(hWnd,Msg,wParam,lParam:Integer):Integer; stdcall;
13057: procedure ShowMsg(hParent: Integer; const Mess, Title: String); //modal but NOT blockable
13058: procedure DeleteMsgForm(Handle: Integer);
13059: procedure DisableForms;
13060: function FoundTopLevel(hWnd, LParam: Integer): BOOL; StdCall;
13061: end;
13062:
13063: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
13064: begin
13065: 'AfMaxSyncSlots','LongInt'( 64 );
13066: 'AfSynchronizeTimeout','LongInt'( 2000 );
13067: TAfSyncSlotID', 'DWORD
13068: TAfSyncStatistics', 'record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end';
13069: TAfSafeSyncEvent', 'Procedure ( ID : TAfSyncSlotID )
13070: TAfSafeDirectSyncEvent', 'Procedure
13071: Function AfNewSyncSlot( const AEvent : TAfSafeSyncEvent ) : TAfSyncSlotID
13072: Function AfReleaseSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13073: Function AfEnableSyncSlot( const ID : TAfSyncSlotID; Enable : Boolean ) : Boolean
13074: Function AfValidateSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13075: Function AfSyncEvent( const ID : TAfSyncSlotID; Timeout : DWORD ) : Boolean
13076: Function AfDirectSyncEvent( Event : TAfSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
13077: Function AfIsSyncMethod : Boolean
13078: Function AfSyncWnd : HWnd
13079: Function AfSyncStatistics : TAfSyncStatistics
13080: Procedure AfClearSyncStatistics
13081: end;
13082:
13083: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
13084: begin
13085: 'fBinary','LongWord')($00000001);
13086: 'fParity','LongWord')($00000002);
13087: 'fOutxCtsFlow','LongWord').SetUInt($00000004);
13088: 'fOutxDsrFlow','LongWord')($00000008);
13089: 'fDtrControl','LongWord')($00000030);
13090: 'fDtrControlDisable','LongWord')($00000000);
13091: 'fDtrControlEnable','LongWord')($00000010);
13092: 'fDtrControlHandshake','LongWord')($00000020);

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13093: 'fDsrSensitivity', 'LongWord')( $00000040);
13094: 'fTXContinueOnXoff', 'LongWord')( $00000080);
13095: 'fOutX', 'LongWord')( $00000100);
13096: 'fInX', 'LongWord')( $00000200);
13097: 'fErrorChar', 'LongWord')( $00000400);
13098: 'fNull', 'LongWord')( $00000800);
13099: 'fRtsControl', 'LongWord')( $00003000);
13100: 'fRtsControlDisable', 'LongWord')( $00000000);
13101: 'fRtsControlEnable', 'LongWord')( $00001000);
13102: 'fRtsControlHandshake', 'LongWord')( $00002000);
13103: 'fRtsControlToggle', 'LongWord')( $00003000);
13104: 'fAbortOnError', 'LongWord')( $00004000);
13105: 'fDummy2', 'LongWord')( $FFFF8000);
13106: TAfCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13107: FindClass('TOBJECT'), 'EAFCOMPortCoreError
13108: FindClass('TOBJECT'), 'TAfComPortCore
13109: TAfcComPortCoreEvent', 'Procedure ( Sender : TAfComPortCore; Even'
13110: +'tKind : TAfCoreEvent; Data : DWORD)
13111: SIRegister_TAfComPortCoreThread(CL);
13112: SIRegister_TAfComPortEventThread(CL);
13113: SIRegister_TAfComPortWriteThread(CL);
13114: SIRegister_TAfComPortCore(CL);
13115: Function FormatDeviceName( PortNumber : Integer ) : string
13116: end;
13117:
13118: procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
13119: begin
13120:   TAFOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13121:   TAFOFileExistsEvent', 'Function ( const fileName : String ) : Boolean
13122:   SIRegister_TApplicationFileIO(CL);
13123:   TDataFileCapability', '( dfcRead, dfcWrite )
13124:   TDataFileCapabilities', 'set of TDataFileCapability
13125:   SIRegister_TDatafile(CL);
13126:   //TDataFileClass', 'class of TDataFile
13127:   Function ApplicationFileIODefined : Boolean
13128:   Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13129:   Function FileStreamExists(const fileName: String) : Boolean
13130:   //Procedure Register
13131: end;
13132:
13133: procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13134: begin
13135:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13136:   +', uftCstring, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecisi'
13137:   +'on, uftTimestamp, uftBlob, uftBlobid, uftDate, uftTime, uftInt64, uftArray, uftNull )
13138:   TALFBXScale', 'Integer
13139:   FindClass('TOBJECT'), 'EALFBXConvertError
13140:   SIRegister_EALFBXError(CL);
13141:   SIRegister_EALFBXException(CL);
13142:   FindClass('TOBJECT'), 'EALFBXGFFixError
13143:   FindClass('TOBJECT'), 'EALFBXDSQLError
13144:   FindClass('TOBJECT'), 'EALFBXDynError
13145:   FindClass('TOBJECT'), 'EALFBXBakError
13146:   FindClass('TOBJECT'), 'EALFBXGSecError
13147:   FindClass('TOBJECT'), 'EALFBXLicenseError
13148:   FindClass('TOBJECT'), 'EALFBXStatError
13149:   //EALFBXExceptionClass', 'class of EALFBXError
13150:   TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13151:   +'37, csDOS850, csDOS852, csDOS853, csDOS860, csDOS861, csDOS863, csDOS865, '
13152:   +'csEUCL_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13153:   +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13154:   +' csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13155:   +'SDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13156:   +'_4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13157:   +'8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13158:   TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13159:   +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13160:   +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13161:   +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13162:   TALFBXTransParams', 'set of TALFBXTransParam
13163: Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13164: Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13165: Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13166: 'CALFBXMaxParamLength', 'LongInt'( 125 );
13167: TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13168: TALFBXParamsFlags', 'set of TALFBXParamsFlag
13169: //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13170: //PALFBXSQLData', '^TALFBXSQLData // will not work
13171: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete, '
13172:   +'stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis'
13173:   +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13174: SIRegister_TALFBXSQLDA(CL);
13175: //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13176: SIRegister_TALFBXPoolStream(CL);
13177: //PALFBXBlobData', '^TALFBXBlobData // will not work
13178: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13179: //PALFBXArrayDesc', 'TALFBXArrayDesc // will not work
13180: //TALFBXArrayDesc', 'TISCArryDesc
13181: //TALFBXBlobDesc', 'TISCBlobDesc

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13182: //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13183: //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13184: SIRегистер_TALFBXSQLResult(CL);
13185: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13186: SIRегистер_TALFBXSQLParams(CL);
13187: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13188: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13189: +'atementType: TALFBXStatementType; end
13190: FindClass('TOBJECT'), 'TALFBXLibrary
13191: //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13192: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13193: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13194: +'Excep : EALFBXExceptionClass)
13195: SIRегистер_TALFBXLibrary(CL);
13196: 'cALFBXDateOffset', 'LongInt'( 15018);
13197: 'cALFBXTimeCoef', 'LongInt'( 864000000);
13198: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double);
13199: //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp);
13200: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp) : Double;
13201: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word)
13202: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13203: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp);
13204: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp);
13205: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp);
13206: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer) : Integer
13207: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord) : Cardinal
13208: TALFBXPParamType', '( prNone, prByte, prShrt, prCard, prStrg, prLigno )
13209: TALFBXPDBInfo', 'record Name : AnsiString; ParamType : TALFBXPParamType; end
13210: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13211: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13212: end;
13213:
13214: procedure SIRегистер_ALFBXClient(CL: TPSPascalCompiler);
13215: begin
13216:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13217:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13218:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13219: +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13220: +'teger; First : Integer; CacheThreshold : Integer; end
13221:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13222:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13223:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13224:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13225: +'_writes : int64; page_fetches : int64; page_marks : int64; end
13226:   SIRегистер_TALFBXClient(CL);
13227:   SIRегистер_TALFBXConnectionStatementPoolBinTreeNode(CL);
13228:   SIRегистер_TALFBXConnectionStatementPoolBinTree(CL);
13229:   SIRегистер_TALFBXConnectionWithStmtPoolContainer(CL);
13230:   SIRегистер_TALFBXConnectionWithoutStmtPoolContainer(CL);
13231:   SIRегистер_TALFBXReadTransactionPoolContainer(CL);
13232:   SIRегистер_TALFBXReadStatementPoolContainer(CL);
13233:   SIRегистер_TALFBXStringKeyPoolBinTreeNode(CL);
13234:   SIRегистер_TALFBXConnectionPoolClient(CL);
13235:   SIRегистер_TALFBXEventThread(CL);
13236:   Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13237: end;
13238:
13239: procedure SIRегистер_ovcBidi(CL: TPSPascalCompiler);
13240: begin
13241:   _OSVERSIONINFOA = record
13242:     dwOSVersionInfoSize: DWORD;
13243:     dwMajorVersion: DWORD;
13244:     dwMinorVersion: DWORD;
13245:     dwBuildNumber: DWORD;
13246:     dwPlatformId: DWORD;
13247:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13248:   end;
13249:   TOSVersionInfoA', '_OSVERSIONINFOA
13250:   TOSVersionInfo', 'TOSVersionInfoA
13251: 'WS_EX_RIGHT', 'LongWord'($00001000);
13252: 'WS_EX_LEFT', 'LongWord'($00000000);
13253: 'WS_EX_RTLREADING', 'LongWord'($00002000);
13254: 'WS_EX_LTRREADING', 'LongWord'($00000000);
13255: 'WS_EX_LEFTSCROLLBAR', 'LongWord'($00004000);
13256: 'WS_EX_RIGHTSCROLLBAR', 'LongWord'($00000000);
13257: Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13258: 'LAYOUTRTL', 'LongWord'($00000001);
13259: 'LAYOUT_BTT', 'LongWord'($00000002);
13260: 'LAYOUT_VBH', 'LongWord'($00000004);
13261: 'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord'($00000008);
13262: 'NOMIRRORBITMAP', 'LongWord'($DW0 ($80000000));
13263: Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13264: Function GetLayout( dc : hdc ) : DWORD
13265: Function IsBidi : Boolean
13266: Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL
13267: Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13268: Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13269: Function GetPriorityClass( hProcess : THandle ) : DWORD
13270: Function OpenClipboard( hWndNewOwner : HWND ) : BOOL

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13271: Function CloseClipboard : BOOL
13272: Function GetClipboardSequenceNumber : DWORD
13273: Function GetClipboardOwner : HWND
13274: Function SetClipboardViewer( hWndNewViewer : HWND) : HWND
13275: Function GetClipboardViewer : HWND
13276: Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND) : BOOL
13277: Function SetClipboardData( uFormat : UINT; hMem : THandle) : THandle
13278: Function GetClipboardData( uFormat : UINT) : THandle
13279: Function RegisterClipboardFormat( lpszFormat : PChar) : UINT
13280: Function CountClipboardFormats : Integer
13281: Function EnumClipboardFormats( format : UINT) : UINT
13282: Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13283: Function EmptyClipboard : BOOL
13284: Function IsClipboardFormatAvailable( format : UINT) : BOOL
13285: Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer) : Integer
13286: Function OpenClipboardWindow : HWND
13287: Function EndDialog( hDlg : HWND; nResult : Integer) : BOOL
13288: Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer) : HWND
13289: Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13290: Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13291: Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar) : BOOL
13292: Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT) : BOOL
13293: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer) : BOOL
13294: Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer) : UINT
13295: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13296: end;
13297:
13298: procedure SIRегистre_DXPUtils(CL: TPSPascalCompiler);
13299: begin
13300:   Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13301:   Function GetTemporaryFilesPath : String
13302:   Function GetTemporaryFileName : String
13303:   Function FindFileInPaths( const fileName, paths : String) : String
13304:   Function PathsToString( const paths : TStrings) : String
13305:   Procedure StringToPaths( const pathsString : String; paths : TStrings)
13306:   //Function MacroExpandPath( const aPath : String) : String
13307: end;
13308:
13309: procedure SIRегистre_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13310: begin
13311:   SIRегистre_TALMultiPartBaseContent(CL);
13312:   SIRегистre_TALMultiPartBaseContents(CL);
13313:   SIRегистre_TALMultiPartBaseStream(CL);
13314:   SIRегистre_TALMultiPartBaseEncoder(CL);
13315:   SIRегистre_TALMultiPartBaseDecoder(CL);
13316:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString) : AnsiString
13317:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13318:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13319: end;
13320:
13321: procedure SIRегистre_SmallUtils(CL: TPSPascalCompiler);
13322: begin
13323:   TdriveSize', 'record FreeS : Int64; TotalS : Int64; end
13324:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13325:   +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13326:   Function aAllocPadedMem( Size : Cardinal) : TObject
13327:   Procedure aFreePadedMem( var P : TObject);
13328:   Procedure aFreePadedMem1( var P : PChar);
13329:   Function aCheckPadedMem( P : Pointer) : Byte
13330:   Function aGetPadMemSize( P : Pointer) : Cardinal
13331:   Function aAllocMem( Size : Cardinal) : Pointer
13332:   Function aStrLen( const Str : PChar) : Cardinal
13333:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal) : PChar
13334:   Function aStrECopy( Dest : PChar; const Source : PChar) : PChar
13335:   Function aStrCopy( Dest : PChar; const Source : PChar) : PChar
13336:   Function aStrEnd( const Str : PChar) : PChar
13337:   Function aStrScan( const Str : PChar; aChr : Char) : PChar
13338:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal) : PChar
13339:   Function aPCharLength( const Str : PChar) : Cardinal
13340:   Function aPCharUpper( Str : PChar) : PChar
13341:   Function aPCharLower( Str : PChar) : PChar
13342:   Function aStrCat( Dest : PChar; const Source : PChar) : PChar
13343:   Function aLastDelimiter( const Delimiters, S : String) : Integer
13344:   Function aCopyTail( const S : String; Len : Integer) : String
13345:   Function aInt2Thos( I : Int64) : String
13346:   Function aUpperCase( const S : String) : String
13347:   Function aLowerCase( const S : string) : String
13348:   Function aCompareText( const S1, S2 : string) : Integer
13349:   Function aSameText( const S1, S2 : string) : Boolean
13350:   Function aInt2Str( Value : Int64) : String
13351:   Function aStr2Int( const Value : String) : Int64
13352:   Function aStr2IntDef( const S : string; Default : Int64) : Int64
13353:   Function aGetFileExt( const FileName : String) : String
13354:   Function aGetFilePath( const FileName : String) : String
13355:   Function aGetFileName( const FileName : String) : String
13356:   Function aChangeExt( const FileName, Extension : String) : String
13357:   Function aAdjustLineBreaks( const S : string) : string
13358:   Function aGetWindowStr( WinHandle : HWND) : String
13359:   Function aDiskSpace( Drive : String) : TdriveSize

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13360: Function aFileExists( FileName : String ) : Boolean
13361: Function aFileSize( FileName : String ) : Int64
13362: Function aDirectoryExists( const Name : string ) : Boolean
13363: Function aSysErrorMessage( ErrorCode : Integer ) : string
13364: Function aShortPathName( const LongName : string ) : string
13365: Function aGetWindowVer : TWinVerRec
13366: procedure InitDriveSpacePtr;
13367: end;
13368:
13369: procedure SIRегистер_MakeApp(CL: TPPascalCompiler);
13370: begin
13371:   aZero', 'LongInt'( 0 );
13372:   'makeappDEF', 'LongInt'( - 1 );
13373:   'CS_VREDRAW', 'LongInt'( DWORD( 1 ) );
13374:   'CS_HREDRAW', 'LongInt'( DWORD( 2 ) );
13375:   'CS_KEYCVTWINDOW', 'LongInt'( 4 );
13376:   'CS_DBLCLKS', 'LongInt'( 8 );
13377:   'CS_OWNDC', 'LongWord')( $20 );
13378:   'CS_CLASSDC', 'LongWord')( $40 );
13379:   'CS_PARENTDC', 'LongWord')( $80 );
13380:   'CS_NOKEYCWT', 'LongWord')( $100 );
13381:   'CS_NOCLOSE', 'LongWord')( $200 );
13382:   'CS_SAVEBITS', 'LongWord')( $800 );
13383:   'CS_BYTEALIGNCLIENT', 'LongWord')( $1000 );
13384:   'CS_BYTEALIGNWINDOW', 'LongWord')( $2000 );
13385:   'CS_GLOBALCLASS', 'LongWord')( $4000 );
13386:   'CS_IME', 'LongWord')( $10000 );
13387:   'CS_DROPSHADOW', 'LongWord')( $20000 );
13388:   //TPanelFunc', 'TPanelFunc // will not work
13389:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13390:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13391:   TFontLooks', 'set of TFontLook
13392:   TMessagefunc', 'function(hWnd,iMsg,wParam:lParam:Integer):Integer
13393:   Function SetWinClass(const ClassName:String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13394:   Function SetWinClass0( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13395:   Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer ) : Word
13396:   Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13397:   Procedure RunMsgLoop( Show : Boolean )
13398:   Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13399:   Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int;
13400:   Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13401:   Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13402:   Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13403:   Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13404:   Function id4menu( a, b : Byte; c : Byte; d : Byte ) : Cardinal
13405:   Procedure DoInitMakeApp //set first to init formclasscontrol!
13406: end;
13407:
13408: procedure SIRегистер_ScreenSaver(CL: TPPascalCompiler);
13409: begin
13410:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13411:     + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13412:   TScreenSaverOptions', 'set of TScreenSaverOption
13413:   'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13414:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13415:   SIRегистер_TScreenSaver(CL);
13416:   //Procedure Register
13417:   Procedure SetScreenSaverPassword
13418: end;
13419:
13420: procedure SIRегистер_XCollection(CL: TPPascalCompiler);
13421: begin
13422:   FindClass('TOBJECT'), 'TXCollection
13423:   SIRегистер_EFilerException(CL);
13424:   SIRегистер_TXCollectionItem(CL);
13425:   //TXCollectionItemClass', 'class of TXCollectionItem
13426:   SIRегистер_TXCollection(CL);
13427:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13428:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13429:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13430:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13431:   Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13432:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13433: end;
13434:
13435: procedure SIRегистер_XOpenGL(CL: TPPascalCompiler);
13436: begin
13437:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13438:   Procedure xglMapTexCoordToNull
13439:   Procedure xglMapTexCoordToMain
13440:   Procedure xglMapTexCoordToSecond
13441:   Procedure xglMapTexCoordToDual
13442:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13443:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13444:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13445:   Procedure xglBeginUpdate

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13446: Procedure xglEndUpdate
13447: Procedure xglPushState
13448: Procedure xglPopState
13449: Procedure xglForbidSecondTextureUnit
13450: Procedure xglAllowSecondTextureUnit
13451: Function xglGetBitWiseMapping : Cardinal
13452: end;
13453:
13454: procedure SIRегистер_VectorLists(CL: TPSPPascalCompiler);
13455: begin
13456:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory)
13457:   TBaseListOptions', 'set of TBaseListOption
13458:   SIRегистер_TBaseList(CL);
13459:   SIRегистер_TBaseVectorList(CL);
13460:   SIRегистер_TAffineVectorList(CL);
13461:   SIRегистер_TVectorList(CL);
13462:   SIRегистер_TTexPointList(CL);
13463:   SIRегистер_TXIntegerList(CL);
13464: //PSingleArrayList', '^TSingleArrayList // will not work
13465:   SIRегистер_TSingleList(CL);
13466:   SIRегистер_TByteList(CL);
13467:   SIRегистер_TQuaternionList(CL);
13468: Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13469: Procedure QuickSortList1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13470: Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13471: end;
13472:
13473: procedure SIRегистер_MeshUtils(CL: TPSPPascalCompiler);
13474: begin
13475:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13476:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13477:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13478:   Procedure ConvertIndexedListToList( const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList );
13479:   Function BuildVectorCountOptimizedIndices( const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList
13480:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13481:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13482:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList )
13483:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13484:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13485:   Procedure RemapIndices( indices, indicesMap : TIntegerList )
13486:   Procedure UnifyTrianglesWinding( indices : TIntegerList )
13487:   Procedure InvertTrianglesWinding( indices : TIntegerList )
13488:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13489:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList ) : TIntegerList
13490:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single )
13491:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean);
TPersistentObjectList;
13492:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13493:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList;
normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13494: end;
13495:
13496: procedure SIRегистер_JclSysUtils(CL: TPSPPascalCompiler);
13497: begin
13498:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte )
13499:   Procedure FreeMemAndNil( var P : TObject )
13500:   Function PCharOrNil( const S : string ) : PChar
13501:   SIRегистер_TJclReferenceMemoryStream(CL);
13502:   FindClass('TOBJECT'), 'EJclVMTError
13503:   {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13504:   Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13505:   Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer )
13506:   PDynamicIndexList', '^TDynamicIndexList // will not work
13507:   PDynamicAddressList', '^TDynamicAddressList // will not work
13508:   Function GetDynamicMethodCount( AClass : TClass ) : Integer
13509:   Function GetDynamicIndexList( AClass : TClass ) : PDynamicIndexList
13510:   Function GetDynamicAddressList( AClass : TClass ) : PDynamicAddressList
13511:   Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13512:   Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13513:   Function GetInitTable( AClass : TClass ) : PTTypeInfo
13514:   PFieldEntry', '^TFieldEntry // will not work}
13515:   TFieldEntry', 'record OffSet : Integer; IDX : Word; Name : ShortString; end
13516:   Function JIsClass( Address : Pointer ) : Boolean
13517:   Function JIsObject( Address : Pointer ) : Boolean
13518:   Function GetImplementorOfInterface( const I : IInterface ) : TObject
13519:   TDigitCount', 'Integer
13520:   SIRегистер_TJclNumericFormat(CL);
13521:   Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13522:   TTextHandler', 'Procedure ( const Text : string )
13523: // 'ABORT_EXIT_CODE', 'LongInt'( ERROR_CANCELLED 1223 );
13524:   Function JExecute(const
CommandLine:string;OutputLineCallback:TTextHandler;RawOutputt:Bool;AbortPtr:PBool):Card;
13525:   Function JExecute1(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13526:   Function ReadKey : Char //to and from the DOS console !

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13527: TModuleHandle', 'HINST
13528: //TModuleHandle', 'Pointer
13529: 'INVALID_MODULEHANDLE_VALUE','LongInt'( TModuleHandle ( 0 ) );
13530: Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13531: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13532: Procedure UnloadModule( var Module : TModuleHandle )
13533: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13534: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13535: Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13536: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13537: FindClass('TOBJECT'),'EJclConversionError
13538: Function JStrToBoolean( const S : string ) : Boolean
13539: Function JBooleanToStr( B : Boolean ) : string
13540: Function JIntToInt( I : Integer ) : Boolean
13541: Function JBoolToInt( B : Boolean ) : Integer
13542: 'ListSeparator','String '
13543: 'ListSeparator1','String '
13544: Procedure ListAddItems( var List : string; const Separator, Items : string )
13545: Procedure ListIncludeItems( var List : string; const Separator, Items : string )
13546: Procedure ListRemoveItems( var List : string; const Separator, Items : string )
13547: Procedure ListDelItem( var List : string; const Separator : string; const Index : Integer )
13548: Function ListItemCount( const List, Separator : string; const Index : Integer ) : Integer
13549: Function ListGetItem( const List, Separator : string; const Index : Integer ) : string
13550: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13551: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13552: Function SystemTOBJECTInstance : LongWord
13553: Function IsCompiledWithPackages : Boolean
13554: Function JJclGUIDToString( const GUID : TGUID ) : string
13555: Function JJclStringToGUID( const S : string ) : TGUID
13556: SIRegister_TJclIntfCriticalSection(CL);
13557: SIRegister_TJclSimpleLog(CL);
13558: Procedure InitSimpleLog( const ALogFileFileName : string )
13559: end;
13560:
13561: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13562: begin
13563:   FindClass ('TOBJECT'),'EJclBorRADException
13564:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )'
13565:   TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )'
13566:   TJclBorRADToolEdition ', '( deSTD, dePRO, deCSS, deARC )'
13567:   TJclBorRADToolPath', 'string
13568: 'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13569: 'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11);
13570: 'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5);
13571: BorRADToolRepositoryPagesSection','String 'Repository Pages
13572: BorRADToolRepositoryDialogsPage','String 'Dialogs
13573: BorRADToolRepositoryFormsPage','String 'Forms
13574: BorRADToolRepositoryProjectsPage','String 'Projects
13575: BorRADToolRepositoryDataModulesPage','String 'Data Modules
13576: BorRADToolRepositoryObjectType','String 'Type
13577: BorRADToolRepositoryFormTemplate','String 'FormTemplate
13578: BorRADToolRepositoryProjectTemplate','String 'ProjectTemplate
13579: BorRADToolRepositoryObjectName','String 'Name
13580: BorRADToolRepositoryObjectPage','String 'Page
13581: BorRADToolRepositoryObjectIcon','String 'Icon
13582: BorRADToolRepositoryObjectDescr','String 'Description
13583: BorRADToolRepositoryObjectAuthor','String 'Author
13584: BorRADToolRepositoryObjectAncestor','String 'Ancestor
13585: BorRADToolRepositoryObjectDesigner','String 'Designer
13586: BorRADToolRepositoryDesignerDfm','String 'dfm
13587: BorRADToolRepositoryDesignerXfm','String 'xfm
13588: BorRADToolRepositoryObjectNewForm','String 'DefaultNewForm
13589: BorRADToolRepositoryObjectMainForm','String 'DefaultMainForm
13590: SourceExtensionDelphiPackage','String '.dpk
13591: SourceExtensionBCBPackage','String '.bpk
13592: SourceExtensionDelphiProject','String '.dpr
13593: SourceExtensionBCBProject','String '.bpr
13594: SourceExtensionBDSProject','String '.bdsproj
13595: SourceExtensionDProject','String '.dproj
13596: BinaryExtensionPackage','String '.bpl
13597: BinaryExtensionLibrary','String '.dll
13598: BinaryExtensionExecutable','String '.exe
13599: CompilerExtensionDCP','String '.dcp
13600: CompilerExtensionBPI','String '.bpi
13601: CompilerExtensionLIB','String '.lib
13602: CompilerExtensionTDS','String '.tds
13603: CompilerExtensionMAP','String '.map
13604: CompilerExtensionDRC','String '.drc
13605: CompilerExtensionDEF','String '.def
13606: SourceExtensionCPP','String '.cpp
13607: SourceExtensionH','String '.h
13608: SourceExtensionPAS','String '.pas
13609: SourceExtensionDFM','String '.dfm
13610: SourceExtensionXFM','String '.xfm
13611: SourceDescriptionPAS','String 'Pascal source file
13612: SourceDescriptionCPP','String 'C++ source file
13613: DesignerVCL','String 'VCL
13614: DesignerCLX','String 'CLX
13615: ProjectTypePackage','String 'package

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13616: ProjectTypeLibrary', 'String 'library
13617: ProjectTypeProgram', 'String 'program
13618: Personality32Bit', 'String '32 bit
13619: Personality64bit', 'String '64 bit
13620: PersonalityDelphi', 'String 'Delphi
13621: PersonalityDelphiDotNet', 'String 'Delphi.net
13622: PersonalityBCB', 'String 'C++Builder
13623: PersonalityCSB', 'String 'C#Builder
13624: PersonalityVB', 'String 'Visual Basic
13625: PersonalityDesign', 'String 'Design
13626: PersonalityUnknown', 'String 'Unknown personality
13627: PersonalityBDS', 'String 'Borland Developer Studio
13628: DOFDirectoriesSection', 'String 'Directories
13629: DOFUnitOutputDirKey', 'String 'UnitOutputDir
13630: DOFSearchPathName', 'String 'SearchPath
13631: DOFConditionals', 'String 'Conditionals
13632: DOFLinkerSection', 'String 'Linker
13633: DOFPackagesKey', 'String 'Packages
13634: DOFCompilerSection', 'String 'Compiler
13635: DOFPackageNoLinkKey', 'String 'PackageNoLink
13636: DOFAdditionalSection', 'String 'Additional
13637: DOFOptionsKey', 'String 'Options
13638: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13639: + 'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13640: + 'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13641: TJclBorPersonalities', 'set of TJclBorPersonality
13642: TJclBorDesigner', '( bdVCL, bdCLX )
13643: TJclBorDesigners', 'set of TJclBorDesigner
13644: TJclBorPlatform', '( bp32bit, bp64bit )
13645: FindClass('TOBJECT'), 'TJclBorRADToolInstallation
13646: SIRegister_TJclBorRADToolInstallationObject(CL);
13647: SIRegister_TJclBorlandOpenHelp(CL);
13648: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13649: TJclHelp2Objects', 'set of TJclHelp2Object
13650: SIRegister_TJclHelp2Manager(CL);
13651: SIRegister_TJclBorRADToolIDETool(CL);
13652: SIRegister_TJclBorRADToolIDEPackages(CL);
13653: SIRegister_IJclCommandLineTool(CL);
13654: FindClass('TOBJECT'), 'EJclCommandLineToolError
13655: SIRegister_TJclCommandLineTool(CL);
13656: SIRegister_TJclBorlandCommandLineTool(CL);
13657: SIRegister_TJclBCC32(CL);
13658: SIRegister_TJclDCC32(CL);
13659: TJclDCC', 'TJclDCC32
13660: SIRegister_TJclBpr2Mak(CL);
13661: SIRegister_TJclBorlandMake(CL);
13662: SIRegister_TJclBorRADToolPalette(CL);
13663: SIRegister_TJclBorRADToolRepository(CL);
13664: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13665: TCommandLineTools', 'set of TCommandLineTool
13666: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13667: SIRegister_TJclBorRADToolInstallation(CL);
13668: SIRegister_TJclBCCInstallation(CL);
13669: SIRegister_TJclDelphiInstallation(CL);
13670: SIRegister_TJclDCCIL(CL);
13671: SIRegister_TJclBDSInstallation(CL);
13672: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13673: SIRegister_TJclBorRADToolInstallations(CL);
13674: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13675: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13676: Function IsDelphiPackage( const FileName : string ) : Boolean
13677: Function IsDelphiProject( const FileName : string ) : Boolean
13678: Function IsBCBPackage( const FileName : string ) : Boolean
13679: Function IsBCBProject( const FileName : string ) : Boolean
13680: Procedure GetDPRFileInfo(const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString);
13681: Procedure GetBPRFileInfo(const BPRFileName:string;out BinaryFileName:string;const Descript:PString);
13682: Procedure GetDPKFileInfo(const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13683: Procedure GetBPKFileInfo(const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13684: function SamePath(const Path1, Path2: string): Boolean;
13685: end;
13686:
13687: procedure SIRegister_JclFileUtils_max(CL: TPSPascalCompiler);
13688: begin
13689:   'ERROR_NO_MORE_FILES', LongInt( 18 );
13690:   //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13691:   //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13692:   //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13693:   'LPathSeparator','String '/'
13694:   'LDirDelimiter','String '
13695:   'LDirSeparator','String '
13696:   'JXPathDevicePrefix','String '\\.\\
13697:   'JXPathSeparator','String \
13698:   'JXDirDelimiter','String \
13699:   'JXDirSeparator','String ';
13700:   'JXPathUncPrefix','String \
13701:   'faNormalFile','LongWord')($00000080);
13702:   //faUnixSpecific',' faSymLink);

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13703: JXTCompactPath', '( cpCenter, cpEnd )
13704:   _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13705:   +'tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime :'
13706:   +' TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13707: TWIn32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13708: WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13709:
13710: Function jxPathAddSeparator( const Path : string ) : string
13711: Function jxPathAddExtension( const Path, Extension : string ) : string
13712: Function jxPathAppend( const Path, Append : string ) : string
13713: Function jxPathBuildRoot( const Drive : Byte ) : string
13714: Function jxPathCanonicalize( const Path : string ) : string
13715: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13716: Function jxPathCompactPath( const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13717: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
13718: Function jxPathExtractFileDirName( const S : string ) : string
13719: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13720: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13721: Function jxPathGetDepth( const Path : string ) : Integer
13722: Function jxPathGetLongName( const Path : string ) : string
13723: Function jxPathGetShortName( const Path : string ) : string
13724: Function jxPathGetLongName( const Path : string ) : string
13725: Function jxPathGetShortName( const Path : string ) : string
13726: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13727: Function jxPathGetTempPath : string
13728: Function jxPathIsAbsolute( const Path : string ) : Boolean
13729: Function jxPathIsChild( const Path, Base : string ) : Boolean
13730: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13731: Function jxPathIsUNC( const Path : string ) : Boolean
13732: Function jxPathRemoveSeparator( const Path : string ) : string
13733: Function jxPathRemoveExtension( const Path : string ) : string
13734: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13735: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13736: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13737: JxTFileListOptions', 'set of TFileListOption
13738: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13739: TFileHandler', 'Procedure ( const FileName : string )
13740: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec)
13741: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13742: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFileMatchFunc):Bool;
13743: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13744: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13745: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13746: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13747: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13748: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13749: Procedure jxCreatEmptyFile( const FileName : string )
13750: Function jxCloseVolume( var Volume : THandle ) : Boolean
13751: Function jxDelteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13752: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13753: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13754: Function jxDelTree( const Path : string ) : Boolean
13755: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13756: Function jxDiskInDrive( Drive : Char ) : Boolean
13757: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13758: Function jxFileCreateTemp( var Prefix : string ) : THandle
13759: Function jxFilBackup( const FileName : string; Move : Boolean ) : Boolean
13760: Function jxFilCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13761: Function jxFilDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13762: Function jxFilExists( const FileName : string ) : Boolean
13763: Function jxFilMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13764: Function jxFilRestore( const FileName : string ) : Boolean
13765: Function jxGetBackupFileName( const FileName : string ) : string
13766: Function jxIsBackupFileName( const FileName : string ) : Boolean
13767: Function jxFilGetDisplayName( const FileName : string ) : string
13768: Function jxFilGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13769: Function jxFilGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13770: Function jxFilGetSize( const FileName : string ) : Int64
13771: Function jxFilGetTempName( const Prefix : string ) : string
13772: Function jxFilGetType( const FileName : string ) : string
13773: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13774: Function jxForceDirectories( Name : string ) : Boolean
13775: Function jxGetDirectorySize( const Path : string ) : Int64
13776: Function jxGetDriveTypeStr( const Drive : Char ) : string
13777: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13778: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13779: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13780: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13781: Function jxGetFileInfo( const FileName : string ) : TSearchRec;
13782: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
ResolveSymLinks:Boolean):Integer
13783: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13784: Function jxGetFileLastWrite( const FName : string; out LocalTime : TDateTime ) : Boolean;
13785: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13786: Function jxGetFileLastAccess( const FName : string; out LocalTime : TDateTime ) : Boolean;

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13787: Function jxGetFileCreation( const FName : string ) : TFileTime;
13788: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13789: Function jxGetFileLastWrite( const FName : string; out TimeStamp:Integer;ResolveSymLinks : Boolean):Bool;
13790: Function jxGetFileLastWrite1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13791: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13792: Function jxGetFileLastAccess( const FName:string; out TimeStamp:Integer;ResolveSymLinks : Boolean): Bool;
13793: Function jxGetFileLastAccess1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13794: Function jxGetFileLastAccess2(const FName:string; ResolveSymLinks:Boolean): Integer;
13795: Function jxGetFileLastAttrChange( const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13796: Function jxGetFileLastAttrChange1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13797: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks:Boolean): Integer;
13798: Function jxGetModulePath( const Module : HMODULE ) : string
13799: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13800: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13801: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13802: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileInfoAttributeData
13803: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean
13804: Function jxIsRootDirectory( const CanonicFileName : string ) : Boolean
13805: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean
13806: Function jxOpenVolume( const Drive : Char ) : THandle
13807: Function jxSetDirLastWrite( const DirName : string; const DateTIme : TDateTime ) : Boolean
13808: Function jxSetDirLastAccess( const DirName : string; const DateTIme : TDateTime ) : Boolean
13809: Function jxSetDirCreation( const DirName : string; const DateTIme : TDateTime ) : Boolean
13810: Function jxSetFileLastWrite( const FileName : string; const DateTIme : TDateTime ) : Boolean
13811: Function jxSetFileLastAccess( const FileName : string; const DateTIme : TDateTime ) : Boolean
13812: Function jxSetFileCreation( const FileName : string; const DateTIme : TDateTime ) : Boolean
13813: Procedure jxShredfile( const FileName : string; Times : Integer )
13814: Function jxUnlockVolume( var Handle : THandle ) : Boolean
13815: Function jxCreateSymbolicLink( const Name : string; Target : string ) : Boolean
13816: Function jxSymbolicLinkTarget( const Name : string ) : string
13817: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )
13818: SIRegister_TJclCustomFileAttrMask(CL);
13819: SIRegister_TJclFileAttributeMask(CL);
13820: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13821: +'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)
13822: TFileSearchOptions', 'set of TFileSearchOption
13823: TFileSearchTaskID', 'Integer
13824: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc'
13825: +'hTaskID; const Aborted : Boolean)
13826: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13827: SIRegister_IJclFileEnumerator(CL);
13828: SIRegister_TJclFileEnumerator(CL);
13829: Function JxFileSearch : IJclFileEnumerator
13830: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched,ffPreRelease,ffPrivateBuild, ffSpecialBuild )
13831: JxTFileFlags', 'set of TFileFlag
13832: FindClass('TOBJECT'), 'EJclFileVersionInfoError
13833: SIRegister_TJclFileVersionInfo(CL);
13834: Function jxOSIdentToString( const OSIdent : DWORD ) : string
13835: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileTypeSubType : DWORD ) : string
13836: Function jxVersionResourceAvailable( const FileName : string ) : Boolean
13837: TFileVersionFormat', '( vfMajorMinor, vfFull )
13838: Function jxFormatVersionString( const Hv, Lv : Word ) : string;
13839: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13840: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo;VersionFormat:TFFileVersionFormat):str;
13841: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13842: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
13843: Revision:Word);
13843: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo ) : Boolean
13844: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFFileVersionFormat; const
13845: NotAvailableText : string ) : string
13845: SIRegister_TJclTempFileStream(CL);
13846: FindClass('TOBJECT'), 'TJclCustomFileMapping
13847: SIRegister_TJclFileMappingView(CL);
13848: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13849: SIRegister_TJclCustomFileMapping(CL);
13850: SIRegister_TJclFileMapping(CL);
13851: SIRegister_TJclSwapFileMapping(CL);
13852: SIRegister_TJclFileMappingStream(CL);
13853: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13854: //PPCharArray', '^TPCharArray // will not work
13855: SIRegister_TJclMappedTextReader(CL);
13856: SIRegister_TJclFileMaskComparator(CL);
13857: FindClass('TOBJECT'), 'EJclPathError
13858: FindClass('TOBJECT'), 'EJclFileUtilsError
13859: FindClass('TOBJECT'), 'EJclTempFileStreamError
13860: FindClass('TOBJECT'), 'EJclTempFileStreamError
13861: FindClass('TOBJECT'), 'EJclFileMappingError
13862: FindClass('TOBJECT'), 'EJclFileMapViewError
13863: Function jxPathGetLongName2( const Path : string ) : string
13864: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13865: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstfileName : string ) : Boolean
13866: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13867: Function jxWin32RestoreFile( const FileName : string ) : Boolean
13868: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13869: Procedure jxPathListAddItems( var List : string; const Items : string )
13870: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13871: Procedure jxPathListDelItems( var List : string; const Items : string )
13872: Procedure jxPathListDelItem( var List : string; const Index : Integer )
13873: Function jxPathListItemCount( const List : string ) : Integer

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13874: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13875: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13876: Function jxPathListItemIndex( const List, Item : string ) : Integer
13877: Function jxParamName( Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string;
13878: Function jxParamValue( Index : Integer; const Separator : string; TrimValue : Boolean ) : string;
13879: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13880: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string ) : Integer
13881: end;
13882:
13883: procedure SIRegister_FileUtil(CL: TPSPascalCompiler);
13884: begin
13885:   'UTF8FileHeader','String #$ef#$bb#$bf';
13886:   Function lCompareFilenames( const Filenam1, Filenam2 : string ) : integer
13887:   Function lCompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string ) : integer
13888:   Function lCompareFilenames( const Filenam1, Filenam2 : string; ResolveLinks : boolean ) : integer
13889:   Function lCompareFilenames(Filenam1:PChar;Len1:int;Filenam2:PChar;Len2:int;ResolveLinks:boolean):int;
13890:   Function lFilenameIsAbsolute( const TheFilename : string ) : boolean
13891:   Function lFilenameIsWinAbsolute( const TheFilename : string ) : boolean
13892:   Function lFilenameIsUnixAbsolute( const Thefilename : string ) : boolean
13893:   Procedure lCheckIfFileIsExecutable( const AFilename : string )
13894:   Procedure lCheckIfFileIsSymlink( const AFilename : string )
13895:   Function lFileIsReadable( const AFilename : string ) : boolean
13896:   Function lFileIsWritable( const AFilename : string ) : boolean
13897:   Function lFileIsText( const AFilename : string ) : boolean
13898:   Function lFileIsText( const AFilename : string; out FileReadable : boolean ) : boolean
13899:   Function lFileIsExecutable( const AFilename : string ) : boolean
13900:   Function lFileIsSymlink( const AFilename : string ) : boolean
13901:   Function lFileIsHardLink( const AFilename : string ) : boolean
13902:   Function lFileSize( const Filenam : string ) : int64;
13903:   Function lGetFileDescription( const AFilename : string ) : string
13904:   Function lReadAllLinks( const Filenam : string; ExceptionOnErr : boolean ) : string
13905:   Function lTryReadAllLinks( const Filenam : string ) : string
13906:   Function lDirPathExists( const FileName : String ) : Boolean
13907:   Function lForceDirectory( DirectoryName : string ) : boolean
13908:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13909:   Function lProgramDirectory : string
13910:   Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13911:   Function lExtractFileNameOnly( const AFilename : string ) : string
13912:   Function lExtractFileNameWithoutExt( const AFilename : string ) : string
13913:   Function lCompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean ) : integer;
13914:   Function lCompareFileExt( const Filenam, Ext : string ) : integer;
13915:   Function lFilenameIsPascalUnit( const Filenam : string ) : boolean
13916:   Function lAppendPathDelim( const Path : string ) : string
13917:   Function lChompPathDelim( const Path : string ) : string
13918:   Function lTrimFilename( const AFilename : string ) : string
13919:   Function lCleanAndExpandFilename( const Filenam : string ) : string
13920:   Function lCleanAndExpandDirectory( const Filenam : string ) : string
13921:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13922:   Function lCreateRelativePath( const Filenam, BaseDirectory : string; UsePointDirectory : boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
13923:   Function lCreateAbsolutePath( const Filenam, BaseDirectory : string ) : string
13924:   Function lFileIsInPath( const Filenam, Path : string ) : boolean
13925:   Function lFileIsInDirectory( const Filenam, Directory : string ) : boolean
13926:   TSearchFileInPathFlag', '( sffDontSearchInbasePath, sffSearchLoUpCase )
13927:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13928:   'AllDirectoryEntriesMask','String '*
13929:   Function l GetAllFilesMask : string
13930:   Function lGetExeExt : string
13931:   Function lSearchFileInPath( const Filenam, basePath, SearchPath, Delimiter : string; Flags :
    TSearchFileInPathFlags ) : string
13932:   Function lSearchAllFilesInPath( const Filenam, basePath, SearchPath, Delimiter:string;Flags :
    TSearchFileInPathFlags ) : TString
13933:   Function lFindDiskFilename( const Filenam : string ) : string
13934:   Function lFindDiskFileCaseInsensitive( const Filenam : string ) : string
13935:   Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13936:   Function lGetDarwinSystemFilename( Filenam : string ) : string
13937:   SIRegister_TFileIterator(CL);
13938:   TfileFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13939:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13940:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator )
13941:   SIRegister_TFileSearcher(CL);
13942:   Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13943:   Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13944: // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13945: // TCopyFileFlags', 'set of TCopyFileFlag
13946:   Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13947:   Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13948:   Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13949:   Function lReadFileToString( const Filenam : string ) : string
13950:   Function lGetTempFilename( const Directory, Prefix : string ) : string
13951:   {Function NeedRTLAnsi : boolean
13952:   Procedure SetNeedRTLAnsi( NewValue : boolean)
13953:   Function UTF8ToSys( const s : string ) : string
13954:   Function SysToUTF8( const s : string ) : string
13955:   Function ConsoleToUTF8( const s : string ) : string
13956:   Function UTF8ToConsole( const s : string ) : string}
13957:   Function FileExistsUTF8( const Filenam : string ) : boolean

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13958: Function FileAgeUTF8( const FileName : string ) : Longint
13959: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
13960: Function ExpandFileNameUTF8( const FileName : string ) : string
13961: Function ExpandUNCfileNameUTF8( const FileName : string ) : string
13962: Function ExtractShortPathNameUTF8( const FileName : String ) : String
13963: Function FindFirstUTF8(const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13964: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13965: Procedure FindCloseUTF8( var F : TSearchrec)
13966: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
13967: Function FileGetAttrUTF8( const FileName : String) : Longint
13968: Function FileSetAttrUTF8( const Filename : String; Attr : longint) : Longint
13969: Function DeleteFileUTF8( const FileName : String) : Boolean
13970: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
13971: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
13972: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
13973: Function GetCurrentDirUTF8 : String
13974: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
13975: Function CreateDirUTF8( const NewDir : String) : Boolean
13976: Function RemoveDirUTF8( const Dir : String) : Boolean
13977: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13978: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13979: Function FileCreateUTF8( const FileName : string) : THandle;
13980: Function FileCreateUTF8l( const FileName : string; Rights : Cardinal) : THandle;
13981: Function ParamStrUTF8( Param : Integer) : string
13982: Function GetEnvironmentStringUTF8( Index : Integer) : string
13983: Function GetEnvironmentVariableUTF8( const EnvVar : string) : String
13984: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
13985: Function GetAppConfigFileUTF8(Global:Boolean; SubDir:boolean; CreateDir : boolean) : string
13986: Function SysErrorMessageUTF8( ErrorCode : Integer) : String
13987: end;
13988:
13989: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13990: begin
13991:   //VK_F23 = 134;
13992:   //{$EXTERNALSYM VK_F24}
13993:   //VK_F24 = 135;
13994:   TVirtualKeyCode', 'Integer
13995:   'VK_MOUSEWHEELUP','integer'(134);
13996:   'VK_MOUSEWHEELDOWN','integer'(135);
13997:   Function glIsKeyDown( c : Char) : Boolean;
13998:   Function glIsKeyDown( vk : TVirtualKeyCode) : Boolean;
13999:   Function glKeyPressed( minVkCode : TVirtualKeyCode) : TVirtualKeyCode
14000:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode) : String
14001:   Function glKeyNameToVirtualKeyCode( const keyName : String) : TVirtualKeyCode
14002:   Function glCharToVirtualKeyCode( c : Char) : TVirtualKeyCode
14003:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer)
14004: end;
14005:
14006: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
14007: begin
14008:   TGLPoint', 'TPoint
14009:   //PGLPoint', '^TGLPoint // will not work
14010:   TGLRect', 'TRect
14011:   //PGLRect', '^TGLRect // will not work
14012:   TDelphiColor', 'TColor
14013:   TGLPicture', 'TPicture
14014:   TGLGraphic', 'TGraphic
14015:   TGLBitmap', 'TBitmap
14016:   //TGraphicClass', 'class of TGraphic
14017:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
14018:   TGLMouseEvent', '( mbLeft, mbRight, mbMiddle )
14019:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
14020:   +'Button; Shift : TShiftState; X, Y : Integer)
14021:   TGLMouseEvent', 'TMouseEvent
14022:   TGLKeyEvent', 'TKeyEvent
14023:   TGLKeyPressEvent', 'TKeyPressEvent
14024:   EGLOSError', 'EWin32Error
14025:   EGLOSError', 'EWin32Error
14026:   EGLOSError', 'EOSError
14027:   'glIsAllFilter','string'All // sAllFilter
14028:   Function GLPoint( const x, y : Integer) : TGLPoint
14029:   Function GLRGB( const r, g, b : Byte) : TColor
14030:   Function GLColorToRGB( color : TColor) : TColor
14031:   Function GLGetRValue( rgb : DWORD) : Byte
14032:   Function GLGetGValue( rgb : DWORD) : Byte
14033:   Function GLGetBValue( rgb : DWORD) : Byte
14034:   Procedure GLInitWinColors
14035:   Function GLRect( const aLeft, aTop, aRight, aBottom : Integer) : TGLRect
14036:   Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer)
14037:   Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect)
14038:   Procedure GLInformationDlg( const msg : String)
14039:   Function GLQuestionDlg( const msg : String) : Boolean
14040:   Function GLInputDlg( const aCaption, aPrompt, aDefault : String) : String
14041:   Function GLSavePictureDialog( var aFileName : String; const aTitle : String) : Boolean
14042:   Function GLOpenPictureDialog( var aFileName : String; const aTitle : String) : Boolean
14043:   Function GLApplicationTerminated : Boolean
14044:   Procedure GLRaiseLastOSError
14045:   Procedure GLFreeAndNil( var anObject: TObject)
14046:   Function GLGetDeviceLogicalPixelsX( device : Cardinal) : Integer

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14047: Function GLGetCurrentColorDepth : Integer
14048: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
14049: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
14050: Procedure GLSleep( length : Cardinal )
14051: Procedure GLQueryPerformanceCounter( var val : Int64 )
14052: Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
14053: Function GLStartPrecisionTimer : Int64
14054: Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
14055: Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
14056: Function GLRTSC : Int64
14057: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
14058: Function GLOKMessageBox( const Text, Caption : string ) : Integer
14059: Procedure GLShowHTMLUrl( Url : String )
14060: Procedure GLShowCursor( AShow : boolean )
14061: Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
14062: Procedure GLGetCursorPos( var point : TGLPoint )
14063: Function GLGetScreenWidth : integer
14064: Function GLGetScreenHeight : integer
14065: Function GLGetTickCount : int64
14066: function RemoveSpaces(const str : String) : String;
14067: TNorlMapSpace', '( nmsObject, nmsTangent )
14068: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
14069: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList )
14070: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectorList )
14071: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
HiTexCoords:TAffineVectorList):TGLBitmap
14072: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
14073: end;
14074:
14075: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
14076: begin
14077:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
14078: // PGLStarRecord', '^TGLStarRecord // will not work
14079: Function StarRecordPositionZUp( const starRecord : TGLStarRecord ) : TAffineVector
14080: Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
14081: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
14082: end;
14083:
14084:
14085: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14086: begin
14087:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14088: //PAABB', '^TAABB // will not work
14089: TBSphere', 'record Center : TAffineVector; Radius : single; end
14090: TClipRect', 'record Left: Single; Top:Single; Right:Single; Bottom : Single; end
14091: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14092: Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14093: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB )
14094: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
14095: Procedure SetAABB( var bb : TAABB; const v : TVector )
14096: Procedure BBTTransform( var c : THmgBoundingBox; const m : TMatrix )
14097: Procedure AABBTransform( var bb : TAABB; const m : TMatrix )
14098: Procedure AABBScale( var bb : TAABB; const v : TAffineVector )
14099: Function BBMinX( const c : THmgBoundingBox ) : Single
14100: Function BBMaxX( const c : THmgBoundingBox ) : Single
14101: Function BBMinY( const c : THmgBoundingBox ) : Single
14102: Function BBMaxY( const c : THmgBoundingBox ) : Single
14103: Function BBMinZ( const c : THmgBoundingBox ) : Single
14104: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14105: Procedure AABBInclude( var bb : TAABB; const p : TAffineVector )
14106: Procedure AABBfromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14107: Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14108: Function BBTtoAABB( const aabb : THmgBoundingBox ) : TAABB
14109: Function AABBToBB( const anAABB : TAABB ) : THmgBoundingBox
14110: Function AABBToB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox
14111: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14112: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14113: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14114: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14115: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14116: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14117: Function AABBFitInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14118: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14119: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14120: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14121: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14122: Procedure ExtractAABBCorners( const aabb : TAABB; var AABBCorners : TAABBCorners )
14123: Procedure AABBTtoBSphere( const aabb : TAABB; var BSphere : TBSphere )
14124: Procedure BSphereToAABB( const BSphere : TBSphere; var aabb : TAABB );
14125: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14126: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14127: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14128: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains
14129: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14130: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14131: Function PlaneContainsBSphere( const Location, Normal:TAffineVector; const
testBSphere:TBSphere ):TSpaceContains

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14132: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14133: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14134: Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector
14135: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14136: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single )
14137: Function AABBToclipRect( const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
    viewportSizeY:Int ):TClipRect
14138: end;
14139:
14140: procedure SIRegister_GeometryCoordinates(CL: TPSPPascalCompiler);
14141: begin
14142:   Procedure Cylindrical_Cartesian( const r, theta, zl : single; var x, y, z : single );
14143:   Procedure Cylindrical_Cartesian1( const r, theta, zl : double; var x, y, z : double );
14144:   Procedure Cylindrical_Cartesian2( const r,theta,zl : single; var x, y, z : single; var ierr : integer );
14145:   Procedure Cylindrical_Cartesian3( const r,theta,zl : double; var x, y, z : double; var ierr : integer );
14146:   Procedure Cartesian_Cylindrical( const x, y, zl : single; var r, theta, z : single );
14147:   Procedure Cartesian_Cylindrical1( const x, y, zl : double; var r, theta, z : double );
14148:   Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single );
14149:   Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double );
14150:   Procedure Spherical_Cartesian2( const r,theta,phi : single; var x, y, z : single; var ierr : integer );
14151:   Procedure Spherical_Cartesian3( const r,theta,phi : double; var x, y, z : double; var ierr : integer );
14152:   Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single );
14153:   Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single );
14154:   Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double );
14155:   Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14156:   Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14157:   Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer );
14158:   Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer );
14159:   Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14160:   Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14161:   Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer );
14162:   Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer );
14163:   Procedure BipolarCylindrical_Cartesian( const u, v, zl, a : single; var x, y, z : single );
14164:   Procedure BipolarCylindrical_Cartesian1( const u, v, zl, a : double; var x, y, z : double );
14165:   Procedure BipolarCylindrical_Cartesian2( const u,v,zl,a: single;var x,y,z:single; var ierr : integer );
14166:   Procedure BipolarCylindrical_Cartesian3( const u,v,zl,a: double;var x,y,z:double; var ierr : integer );
14167: end;
14168:
14169: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14170: begin
14171:   'EPSILON','Single').setExtended( 1e-40 );
14172:   'EPSILON2','Single').setExtended( 1e-30 ); }
14173: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14174:   +'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14175: THmgPlane', 'TVector
14176: TDoubleHmgPlane', 'THomogeneousDblVector
14177: {TTtransType', '( ttScaleX, ttScaleY, ttShearZ, ttShearXY, ttShear'
14178:   +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14179:   +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14180: TSingleArray', 'array of Single
14181: TTTransformations', 'array [0..15] of Single)
14182: TPackedRotationMatrix', 'array [0..2] of Smallint)
14183: TVertex', 'TAffineVector
14184: //TVectorGL', 'THomogeneousFltVector
14185: //TMatrixGL', 'THomogeneousFltMatrix
14186: // TPackedRotationMatrix = array [0..2] of SmallInt;
14187: Function glTexPointMake( const s, t : Single ) : TTexPoint
14188: Function glAffineVectorMake( const x, y, z : Single ) : TAffineVector;
14189: Function glAffineVectorMake1( const v : TVectorGL ) : TAffineVector;
14190: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single );
14191: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single );
14192: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL );
14193: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector );
14194: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector );
14195: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL );
14196: Function glVectorMake( const v : TAffineVector; w : Single ) : TVectorGL;
14197: Function glVectorMake1( const x, y, z : Single; w : Single ) : TVectorGL;
14198: Function glPointMake( const x, y, z : Single ) : TVectorGL;
14199: Function glPointMake1( const v : TAffineVector ) : TVectorGL;
14200: Function glPointMake2( const v : TVectorGL ) : TVectorGL;
14201: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single );
14202: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single );
14203: Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL );
14204: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single );
14205: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector );
14206: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL );
14207: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single );
14208: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single );
14209: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector );
14210: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL );
14211: Procedure glRstVector( var v : TAffineVector );
14212: Procedure glRstVector1( var v : TVectorGL );
14213: Function glVectorAdd( const v1, v2 : TAffineVector ) : TAffineVector;
14214: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector );
14215: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector );
14216: Function glVectorAdd3( const v1, v2 : TVectorGL ) : TVectorGL;
14217: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL );
14218: Function glVectorAdd5( const v : TAffineVector; const f : Single ) : TAffineVector;
14219: Function glVectorAdd6( const v : TVectorGL; const f : Single ) : TVectorGL;

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14220: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector);
14221: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL);
14222: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL);
14223: Procedure glAddVector10( var v : TAffineVector; const f : Single);
14224: Procedure glAddVector11( var v : TVectorGL; const f : Single);
14225: //Procedure TexPointArrayAdd(const src:PTexPointArray,const delta:TTexPoint,const
nb:Int;dest:PTexPointArray);
14226: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray,const delta:TTexPoint,const
nb:Integer;const scale: TTExPoint; dest : PTExPointArray);
14227: //Procedure VectorArrayAdd(const src:PAffineVectorArray,const delta:TAffineVector,const nb:Integer;dest:
PAffineVectorArray);
14228: Function glVectorSubtract( const V1, V2 : TAffineVector) : TAffineVector;
14229: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector);
14230: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL);
14231: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL);
14232: Function glVectorSubtract4( const V1, V2 : TVectorGL) : TVectorGL;
14233: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL);
14234: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector);
14235: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single) : TAffineVector;
14236: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single) : TVectorGL;
14237: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector);
14238: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL);
14239: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single);
14240: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat);
14241: Function glTexPointCombine( const t1, t2 : TTExPoint; f1, f2 : Single) : TTExPoint;
14242: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single) : TAffineVector;
14243: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single) : TAffineVector;
14244: Procedure glVectorCombine34(const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector);
14245: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single);
14246: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single);
14247: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single) : TVectorGL;
14248: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1,F2:Single) : TVectorGL;
14249: Procedure glVectorCombine9(const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL);
14250: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL);
14251: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL);
14252: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single) : TVectorGL;
14253: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL);
14254: Function glVectorDotProduct( const V1, V2 : TAffineVector) : Single;
14255: Function glVectorDotProduct1( const V1, V2 : TVectorGL) : Single;
14256: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector) : Single;
14257: Function glPointProject( const p, origin, direction : TAffineVector) : Single;
14258: Function glPointProject1( const p, origin, direction : TVectorGL) : Single;
14259: Function glVectorCrossProduct( const V1, V2 : TAffineVector) : TAffineVector;
14260: Function glVectorCrossProduct1( const V1, V2 : TVectorGL) : TVectorGL;
14261: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL);
14262: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL);
14263: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector);
14264: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector);
14265: Function glLerp( const start, stop, t : Single) : Single;
14266: Function glAngleLerp( start, stop, t : Single) : Single;
14267: Function glDistanceBetweenAngles( angle1, angle2 : Single) : Single;
14268: Function glTexPointLerp( const t1, t2 : TTExPoint; t : Single) : TTExPoint;
14269: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14270: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector);
14271: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single) : TVectorGL;
14272: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL);
14273: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14274: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single) : TAffineVector;
14275: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray);
14276: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
PAffineVectorArray);
14277: Function glVectorLength( const x, y : Single) : Single;
14278: Function glVectorLength1( const x, y, z : Single) : Single;
14279: Function glVectorLength2( const v : TAffineVector) : Single;
14280: Function glVectorLength3( const v : TVectorGL) : Single;
14281: Function glVectorLength4( const v : array of Single) : Single;
14282: Function glVectorNorm( const x, y : Single) : Single;
14283: Function glVectorNorm1( const v : TAffineVector) : Single;
14284: Function glVectorNorm2( const v : TVectorGL) : Single;
14285: Function glVectorNorm3( var V : array of Single) : Single;
14286: Procedure glNormalizeVector( var v : TAffineVector);
14287: Procedure glNormalizeVector1( var v : TVectorGL);
14288: Function glVectorNormalize( const v : TAffineVector) : TAffineVector;
14289: Function glVectorNormalize1( const v : TVectorGL) : TVectorGL;
14290: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer);
14291: Function glVectorAngleCosine( const V1, V2 : TAffineVector) : Single;
14292: Function glVectorNegate( const v : TAffineVector) : TAffineVector;
14293: Function glVectorNegate1( const v : TVectorGL) : TVectorGL;
14294: Procedure glNegateVector( var V : TAffineVector);
14295: Procedure glNegateVector2( var V : TVectorGL);
14296: Procedure glNegateVector3( var V : array of Single);
14297: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14298: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14299: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14300: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14301: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14302: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14303: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14304: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);

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14305: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14306: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14307: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14308: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14309: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14310: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14311: Function glVectorIsNull1( const v : TAffineVector) : Boolean;
14312: Function glVectorSpacing( const v1, v2 : TTexPoint) : Single;
14313: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14314: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14315: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14316: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14317: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14318: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14319: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector;
14320: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector;
14321: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);
14322: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14323: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single);
14324: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14325: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14326: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14327: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14328: Procedure glAbsVector( var v : TVectorGL);
14329: Procedure glAbsVector1( var v : TAffineVector);
14330: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14331: Function glVectorAbs1( const v : TAffineVector) : TAffineVector;
14332: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14333: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14334: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14335: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14336: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14337: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14338: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14339: Function glCreateTranslationMatrix1( const V : TVectorGL) : TMatrixGL;
14340: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;
14341: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14342: Function glCreateRotationMatrixX1( const angle : Single) : TMatrixGL;
14343: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14344: Function glCreateRotationMatrixY1( const angle : Single) : TMatrixGL;
14345: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14346: Function glCreateRotationMatrixZ1( const angle : Single) : TMatrixGL;
14347: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14348: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14349: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix;
14350: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14351: Function glMatrixMultiply1( const M1, M2 : TMatrixGL) : TMatrixGL;
14352: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14353: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14354: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14355: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14356: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14357: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14358: Function glMatrixDeterminant1( const M : TMatrixGL) : Single;
14359: Procedure glAdjointMatrix( var M : TMatrixGL);
14360: Procedure glAdjointMatrix1( var M : TAffineMatrix);
14361: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14362: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single);
14363: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14364: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL);
14365: Procedure glNormalizeMatrix( var M : TMatrixGL);
14366: Procedure glTransposeMatrix( var M : TAffineMatrix);
14367: Procedure glTransposeMatrix1( var M : TMatrixGL);
14368: Procedure glInvertMatrix( var M : TMatrixGL);
14369: Procedure glInvertMatrix1( var M : TAffineMatrix);
14370: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL) : TMatrixGL;
14371: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations) : Boolean;
14372: Function glPlaneMake( const p1, p2, p3 : TAffineVector) : THmgPlane;
14373: Function glPlaneMake1( const p1, p2, p3 : TVectorGL) : THmgPlane;
14374: Function glPlaneMake2( const point, normal : TAffineVector) : THmgPlane;
14375: Function glPlaneMake3( const point, normal : TVectorGL) : THmgPlane;
14376: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane);
14377: Procedure glNormalizePlane( var plane : THmgPlane);
14378: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector) : Single;
14379: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL) : Single;
14380: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector) : TAffineVector;
14381: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector);
14382: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector);
14383: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL) : Boolean;
14384: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector) : Boolean;
14385: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL) : Single;
14386: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector) : Single;
14387: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector;
14388: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector) : single;
14389: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector) : TAffineVector;
14390: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector) : Single;
14391: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector);
14392: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single

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14393: TEulerOrder', '( eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX)
14394: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion
14395: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion
14396: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single
14397: Procedure glNormalizeQuaternion( var Q : TQuaternion )
14398: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion
14399: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
14400: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion
14401: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL
14402: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix
14403: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion
14404: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion
14405: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion
14406: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion
14407: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion
14408: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14409: Function glLnXP1( X : Extended ) : Extended
14410: Function glLog10( X : Extended ) : Extended
14411: Function glLog2( X : Extended ) : Extended
14412: Function glLog21( X : Single ) : Single;
14413: Function glLogN( Base, X : Extended ) : Extended
14414: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14415: Function glPower( const Base, Exponent : Single ) : Single;
14416: Function glPowerl( Base : Single; Exponent : Integer ) : Single;
14417: Function glDegToRad( const Degrees : Extended ) : Extended;
14418: Function glDegToRad1( const Degrees : Single ) : Single;
14419: Function glRadToDeg( const Radians : Extended ) : Extended;
14420: Function glRadToDeg1( const Radians : Single ) : Single;
14421: Function glNormalizeAngle( angle : Single ) : Single
14422: Function glNormalizeDegAngle( angle : Single ) : Single
14423: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14424: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14425: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14426: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14427: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14428: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14429: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14430: Function glArcCos( const X : Extended ) : Extended;
14431: Function glArcCos1( const x : Single ) : Single;
14432: Function glArcSin( const X : Extended ) : Extended;
14433: Function glArcSin1( const X : Single ) : Single;
14434: Function glArcTan21( const Y, X : Extended ) : Extended;
14435: Function glArcTan21( const Y, X : Single ) : Single;
14436: Function glFastArcTan2( y, x : Single ) : Single
14437: Function glTan( const X : Extended ) : Extended;
14438: Function glTan1( const X : Single ) : Single;
14439: Function glCoTan( const X : Extended ) : Extended;
14440: Function glCoTan1( const X : Single ) : Single;
14441: Function glSinh( const x : Single ) : Single;
14442: Function glSinh1( const x : Double ) : Double;
14443: Function glCosh( const x : Single ) : Single;
14444: Function glCosh1( const x : Double ) : Double;
14445: Function glRSqrt( v : Single ) : Single
14446: Function glRLength( x, y : Single ) : Single
14447: Function glISqrt( i : Integer ) : Integer
14448: Function glILength( x, y : Integer ) : Integer;
14449: Function glILength1( x, y, z : Integer ) : Integer;
14450: Procedure glRegisterBasedExp
14451: Procedure glRandomPointOnSphere( var p : TAffineVector )
14452: Function glRoundInt( v : Single ) : Single;
14453: Function glRoundInt1( v : Extended ) : Extended;
14454: Function glTrunc( v : Single ) : Integer;
14455: Function glTrunc64( v : Extended ) : Int64;
14456: Function glInt( v : Single ) : Single;
14457: Function glInt1( v : Extended ) : Extended;
14458: Function glFrac( v : Single ) : Single;
14459: Function glFrac1( v : Extended ) : Extended;
14460: Function glRound( v : Single ) : Integer;
14461: Function glRound64( v : Single ) : Int64;
14462: Function glRound641( v : Extended ) : Int64;
14463: Function glTrunc( X : Extended ) : Int64
14464: Function glRound( X : Extended ) : Int64
14465: Function glFrac( X : Extended ) : Extended
14466: Function glCeil( v : Single ) : Integer;
14467: Function glCeil64( v : Extended ) : Int64;
14468: Function glFloor( v : Single ) : Integer;
14469: Function glFloor64( v : Extended ) : Int64;
14470: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14471: Function glSign( x : Single ) : Integer
14472: Function glIsInRange( const x, a, b : Single ) : Boolean;
14473: Function glIsInRangel( const x, a, b : Double ) : Boolean;
14474: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14475: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14476: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14477: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14478: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14479: Function glMinFloat3( const v1, v2 : Single ) : Single;
14480: Function glMinFloat4( const v : array of Single ) : Single;
14481: Function glMinFloat5( const v1, v2 : Double ) : Double;

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14482: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14483: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14484: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14485: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14486: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14487: //Function MaxFloat10( values : PDoubleArray; nbItems : Integer ) : Double;
14488: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14489: Function glMaxFloat2( const v : array of Single ) : Single;
14490: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14491: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14492: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14493: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14494: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14495: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14496: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14497: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14498: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14499: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14500: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14501: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14502: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14503: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14504: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14505: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14506: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14507: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single );
14508: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14509: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14510: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14511: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14512: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14513: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14514: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14515: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14516: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14517: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14518: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14519: Procedure glSortArrayAscending( var a : array of Extended );
14520: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14521: Function glClampValue1( const aValue, aMin : Single ) : Single;
14522: Function glGeometryOptimizationMode : String;
14523: Procedure glBeginFPUOnlySection;
14524: Procedure glEndFPUOnlySection;
14525: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14526: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14527: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14528: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14529: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14530: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14531: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14532: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14533: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14534: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14535: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14536: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14537: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14538: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14539: Function glRoll1(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14540: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single;
14541: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14542: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14543: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14544: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14545: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14546: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14547: Function glIsVolumeClipped2(const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14548: Function glIsVolumeClipped3(const objPos:TAffineVector;const objRadius:Single;const
Frustum:TFrustum):Bool;
14549: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;
14550: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL;
14551: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL;
14552: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix;
14553: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL;
14554: 'cPI','Single').setExtended( 3.141592654 );
14555: 'cPIdiv180','Single').setExtended( 0.017453292 );
14556: 'c180divPI','Single').setExtended( 57.29577951 );
14557: 'c2PI','Single').setExtended( 6.283185307 );
14558: 'cPIdiv2','Single').setExtended( 1.570796326 );
14559: 'cPIdiv4','Single').setExtended( 0.785398163 );
14560: 'c3PIdiv4','Single').setExtended( 2.35619449 );
14561: 'cInv2PI','Single').setExtended( 1 / 6.283185307 );
14562: 'cInv360','Single').setExtended( 1 / 360 );
14563: 'c180','Single').setExtended( 180 );
14564: 'c360','Single').setExtended( 360 );
14565: 'cOneHalf','Single').setExtended( 0.5 );

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14566: 'cLn10','Single').setExtended( 2.302585093);
14567: {'MinSingle','Extended').setExtended( 1.5e-45);
14568: 'MaxSingle','Extended').setExtended( 3.4e+38);
14569: 'MinDouble','Extended').setExtended( 5.0e-324);
14570: 'MaxDouble','Extended').setExtended( 1.7e+308);
14571: 'MinExtended','Extended').setExtended( 3.4e-4932);
14572: 'MaxExtended','Extended').setExtended( 1.1e+4932);
14573: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18);
14574: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18);}
14575: end;
14576:
14577: procedure SIRegister_GLVectorFileObjects(CL: TPSCompiler);
14578: begin
14579:   AddClassN(FindClass('TOBJECT'), 'TMeshObjectList'
14580:     (FindClass('TOBJECT'), 'TFaceGroups'
14581:      TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14582:      set of TMeshAutoCentering
14583:      TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14584:      SIRegister_TBaseMeshObject(CL);
14585:      (FindClass('TOBJECT'), 'TSkeletonFrameList'
14586:        TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14587:        SIRegister_TSkeletonFrame(CL);
14588:        SIRegister_TSkeletonFrameList(CL);
14589:        (FindClass('TOBJECT'), 'TSkeleton
14590:          (FindClass('TOBJECT'), 'TSkeletonBone
14591:          SIRegister_TSkeletonBoneList(CL);
14592:          SIRegister_TSkeletonRootBoneList(CL);
14593:          SIRegister_TSkeletonBone(CL);
14594:          (FindClass('TOBJECT'), 'TSkeletonColliderList
14595:          SIRegister_TSkeletonCollider(CL);
14596:          SIRegister_TSkeletonColliderList(CL);
14597:          (FindClass('TOBJECT'), 'TGLBaseMesh
14598:            BlendedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14599:              + 'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14600:              + 'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14601:              + 'QuaternionList; end
14602:            SIRegister_TSkeleton(CL);
14603:            TMeshObjectRenderingOption', '( moroGroupByMaterial )
14604:            TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14605:            SIRegister_TMshObject(CL);
14606:            SIRegister_TMshObjectList(CL);
14607:            //TMeshObjectListClass', 'class of TMeshObjectList
14608:            (FindClass('TOBJECT'), 'TMeshMorphTargetList
14609:            SIRegister_TMshMorphTarget(CL);
14610:            SIRegister_TMshMorphTargetList(CL);
14611:            SIRegister_TMorphableMeshObject(CL);
14612:            TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14613:            //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not wo'rk
14614:            //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14615:            TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14616:            SIRegister_TSkeletonMeshObject(CL);
14617:            SIRegister_TFaceGroup(CL);
14618:            TFaceGroupMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14619:              + 'atTriangles, fgmmTriangleFan, fgmmQuads )
14620:            SIRegister_TFGVertexIndexList(CL);
14621:            SIRegister_TFGVertexNormalTexIndexList(CL);
14622:            SIRegister_TFGIndexTexCoordList(CL);
14623:            SIRegister_TFaceGroups(CL);
14624:            TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14625:            SIRegister_TVectorFile(CL);
14626:            //TVectorFileClass', 'class of TVectorFile
14627:            SIRegister_TGLGLSMVectorFile(CL);
14628:            SIRegister_TGLBaseMesh(CL);
14629:            SIRegister_TGLFreeForm(CL);
14630:            TGLActorOption', '( aoSkeletonNormalizeNormals )
14631:            TGLActorOptions', 'set of TGLActorOption
14632:            'cDefaultGLActorOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14633:            (FindClass('TOBJECT'), 'TGLActor
14634:            TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14635:            SIRegister_TActorAnimation(CL);
14636:            TActorAnimationName', 'string
14637:            SIRegister_TActorAnimations(CL);
14638:            SIRegister_TGLBaseAnimationController(CL);
14639:            SIRegister_TGLAnimationController(CL);
14640:            TActorFrameInterpolation', '( afpNone, afpLinear )
14641:            TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounce'
14642:              + 'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14643:            SIRegister_TGLActor(CL);
14644:            SIRegister_TVectorFileFormat(CL);
14645:            SIRegister_TVectorFileFormatsList(CL);
14646:            (FindClass('TOBJECT'), 'EInvalidVectorFile
14647:            Function GetVectorFileFormats : TVectorFileFormatsList
14648:            Function VectorFileFormatsFilter : String
14649:            Function VectorFileFormatsSaveFilter : String
14650:            Function VectorFileFormatExtensionByIndex( index : Integer ) : String
14651:            Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass )
14652:            Procedure UnregisterVectorFileClass( aClass : TVectorFileClass )
14653:            end;
14654:

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14655: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14656: begin
14657:   'Class_DColorPropPage', 'GUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14658:   'Class_DFontPropPage', 'GUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14659:   'Class_DPicturePropPage', 'GUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14660:   'Class_DStringPropPage', 'GUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14661:   SIRegister_TOLEStream(CL);
14662:   (FindClass('TOBJECT'), 'TConnectionPoints
14663:   TConnectionKind', '( ckSingle, ckMulti )
14664:   SIRegister_TConnectionPoint(CL);
14665:   SIRegister_TConnectionPoints(CL);
14666:   TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14667:   (FindClass('TOBJECT'), 'TActiveXControlFactory
14668:   SIRegister_TActiveXControl(CL);
14669:   //TActiveXControlClass', 'class of TActiveXControl
14670:   SIRegister_TActiveXControlFactory(CL);
14671:   SIRegister_TActiveFormControl(CL);
14672:   SIRegister_TActiveForm(CL);
14673:   //TActiveFormClass', 'class of TActiveForm
14674:   SIRegister_TActiveFormFactory(CL);
14675:   (FindClass('TOBJECT'), 'TPropertyPageImpl
14676:   SIRegister_TPropertyPage(CL);
14677:   //TPropertyPageClass', 'class of TPropertyPage
14678:   SIRegister_TPropertyPageImpl(CL);
14679:   SIRegister_TActiveXPropertyPage(CL);
14680:   SIRegister_TActiveXPropertyPageFactory(CL);
14681:   SIRegister_TCustomAdapter(CL);
14682:   SIRegister_TAdapterNotifier(CL);
14683:   SIRegister_TFontAccess(CL);
14684:   SIRegister_TFontAdapter(CL);
14685:   SIRegister_IPictureAccess(CL);
14686:   SIRegister_TPictureAdapter(CL);
14687:   SIRegister_TOLEGraphic(CL);
14688:   SIRegister_TStringsAdapter(CL);
14689:   SIRegister_TReflectorWindow(CL);
14690:   Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14691:   Procedure GetOLEFont( Font : TFont; var OleFont : IFontDisp)
14692:   Procedure SetOLEFont( Font : TFont; OleFont : IFontDisp)
14693:   Procedure GetOLEPicture( Picture : TPicture; var OlePicture : IPictureDisp)
14694:   Procedure SetOLEPicture( Picture : TPicture; OlePicture : IPictureDisp)
14695:   Procedure GetOLEStrings( Strings : TStrings; var OleStrings : IStrings)
14696:   Procedure SetOLEStrings( Strings : TStrings; OleStrings : IStrings)
14697:   Function ParkingWindow : Hwnd
14698: end;
14699:
14700: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14701: begin
14702:   // TIP6Bytes = array [0..15] of Byte;
14703:   {binary form of IPv6 adress (for string conversion routines)}
14704:   // TIP6Words = array [0..7] of Word;
14705:   AddTypeS('TIP6Bytes', 'array [0..15] of Byte;');
14706:   AddTypeS('TIP6Words', 'array [0..7] of Word;');
14707:   AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14708:   Function synaIsIP( const Value : string) : Boolean';
14709:   Function synaIP6( const Value : string) : Boolean';
14710:   Function synalPToID( Host : string) : Ansistring';
14711:   Function synaStrToIp6( value : string) : TIP6Bytes';
14712:   Function synalp6ToStr( value : TIP6Bytes) : string';
14713:   Function synaStrToIp( value : string) : integer';
14714:   Function synalpToStr( value : integer) : string';
14715:   Function synaReverseIP( Value : AnsiString) : AnsiString';
14716:   Function synaReverseIP6( Value : AnsiString) : AnsiString';
14717:   Function synaExpandIP6( Value : AnsiString) : AnsiString';
14718:   Function xStrToIP( const Value : String) : TIPAdr';
14719:   Function xIPToStr( const Adresse : TIPAdr) : String';
14720:   Function IPToCardinal( const Adresse : TIPAdr) : Cardinal';
14721:   Function CardinalToIP( const Value : Cardinal) : TIPAdr';
14722: end;
14723:
14724: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14725: begin
14726:   AddTypeS('TSpecials', 'set of Char');
14727:   Const('SpecialChar', 'TSpecials').SetSet( '='[ ]<>;@/?\_\');
14728:   Const('TableBase64', 'TSpecials').SetSet( '/?:@=&#+');
14729:   Const('TableBase64mod', 'TSpecials').SetSet( '0123456789+/=+');
14730:   Const('TableBase64mod', 'TSpecials').SetSet( '0123456789+,=+');
14731:   Const('TableUU', '0123456789+/=+');
14732:   Const('TableXX', '+0123456789ABCDEFHIJKLNMOPQRSTUVWXYZabcdeghijklmnopqrstuvwxyz');
14733:   Function DecodeTriplet( const Value : AnsiString; Delimiter : Char) : AnsiString';
14734:   Function DecodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14735:   Function DecodeURL( const Value : AnsiString) : AnsiString';
14736:   Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials) : AnsiString';
14737:   Function EncodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14738:   Function EncodeSafeQuotedPrintable( const Value : AnsiString) : AnsiString';
14739:   Function EncodeURLElement( const Value : AnsiString) : AnsiString';
14740:   Function EncodeURL( const Value : AnsiString) : AnsiString';
14741:   Function Decode4to3( const Value, Table : AnsiString) : AnsiString';
14742:   Function Decode4to3Ex( const Value, Table : AnsiString) : AnsiString';
14743:   Function Encode3to4( const Value, Table : AnsiString) : AnsiString';

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14744: Function synDecodeBase64( const Value : AnsiString ) : AnsiString';
14745: Function synEncodeBase64( const Value : AnsiString ) : AnsiString';
14746: Function DecodeBase64mod( const Value : AnsiString ) : AnsiString';
14747: Function EncodeBase64mod( const Value : AnsiString ) : AnsiString');
14748: Function DecodeUU( const Value : AnsiString ) : AnsiString');
14749: Function EncodeUU( const Value : AnsiString ) : AnsiString');
14750: Function DecodeXX( const Value : AnsiString ) : AnsiString');
14751: Function DecodeYEnc( const Value : AnsiString ) : AnsiString');
14752: Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer');
14753: Function synCrc32( const Value : AnsiString ) : Integer');
14754: Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word');
14755: Function Crc16( const Value : AnsiString ) : Word');
14756: Function synMD5( const Value : AnsiString ) : AnsiString');
14757: Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString');
14758: Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14759: Function synSHA1( const Value : AnsiString ) : AnsiString');
14760: Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString');
14761: Function SHA1longHash( const Value : AnsiString; Len : integer ) : AnsiString');
14762: Function synMD4( const Value : AnsiString ) : AnsiString');
14763: end;
14764:
14765: procedure SIRегистre_synamachar(CL: TPSPPascalCompiler);
14766: begin
14767:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14768:             +'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14769:             +'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14770:             +'4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14771:             +'8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14772:             +'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14773:             +', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14774:             +', NEXTSTEP, ARMASCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14775:             +'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14776:             +'1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_
14777:             +'2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14778:             +'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14779:             +'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14780:             +', CP864, CP865, CP869, CP1125 ')');
14781:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14782:   Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14783:   Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
14784:     TransformTable : array of Word) : AnsiString');
14785:   Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
14786:     TransformTable : array of Word; Translit : Boolean) : AnsiString');
14787:   Function GetCurCP : TMimeChar');
14788:   Function GetCurOEMCP : TMimeChar');
14789:   Function GetCPFromID( Value : AnsiString ) : TMimeChar');
14790:   Function GetIDFromCP( Value : TMimeChar ) : AnsiString );
14791:   Function NeedCharsetConversion( const Value : AnsiString ) : Boolean');
14792:   Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14793:   Function GetBOM( Value : TMimeChar ) : AnsiString');
14794:   Function StringToWide( const Value : AnsiString ) : WideString');
14795:   Function WideToString( const Value : WideString ) : AnsiString');
14796: end;
14797:
14798: procedure SIRегистre_synamisc(CL: TPSPPascalCompiler);
14799: begin
14800:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14801:   Procedure WakeOnLan( MAC, IP : string)');
14802:   Function GetDNS : string');
14803:   Function GetIEProxy( protocol : string ) : TProxySetting');
14804:   Function GetLocalIPs : string');
14805:
14806: procedure SIRегистre_synaser(CL: TPSPPascalCompiler);
14807: begin
14808:   AddConstantN('synCR', Char #$0d);
14809:   Const('synLF', Char #$0a);
14810:   Const('cSerialChunk', 'LongInt'( 8192);
14811:   Const('LockfileDirectory', 'String '/var/lock');
14812:   Const('PortIsClosed', 'LongInt'( - 1);
14813:   Const('ErrAlreadyOwned', 'LongInt'( 9991);
14814:   Const('ErrAlreadyInUse', 'LongInt'( 9992);
14815:   Const('ErrWrongParameter', 'LongInt'( 9993);
14816:   Const('ErrPortNotOpen', 'LongInt'( 9994);
14817:   Const('ErrNoDeviceAnswer', 'LongInt'( 9995);
14818:   Const('ErrMaxBuffer', 'LongInt'( 9996);
14819:   Const('ErrTimeout', 'LongInt'( 9997);
14820:   Const('ErrNotRead', 'LongInt'( 9998);
14821:   Const('ErrFrame', 'LongInt'( 9999);
14822:   Const('ErrOverrun', 'LongInt'( 10000);
14823:   Const('ErrRxOver', 'LongInt'( 10001);
14824:   Const('ErrRxParity', 'LongInt'( 10002);
14825:   Const('ErrTxFull', 'LongInt'( 10003);
14826:   Const('dcb_Binary', 'LongWord')($00000001);
14827:   Const('dcb_ParityCheck', 'LongWord')($00000002);
14828:   Const('dcb_OutxCtsFlow', 'LongWord')($00000004);
14829:   Const('dcb_OutxDsrFlow', 'LongWord')($00000008);
14830:   Const('dcb_DtrControlMask', 'LongWord')($00000030);

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14831: Const('dcb_DtrControlDisable','LongWord')( $00000000);
14832: Const('dcb_DtrControlEnable','LongWord')( $00000010);
14833: Const('dcb_DtrControlHandshake','LongWord')( $00000020);
14834: Const('dcb_DsrSensitivity','LongWord')( $00000040);
14835: Const('dcb_TXContinueOnXoff','LongWord')( $00000080);
14836: Const('dcb_OutX','LongWord')( $00000100);
14837: Const('dcb_InX','LongWord')( $00000200);
14838: Const('dcb_ErrorChar','LongWord')( $00000400);
14839: Const('dcb_NullStrip','LongWord')( $00000800);
14840: Const('dcb_RtsControlMask','LongWord')( $00003000);
14841: Const('dcb_RtsControlDisable','LongWord')( $00000000);
14842: Const('dcb_RtsControlEnable','LongWord')( $00001000);
14843: Const('dcb_RtsControlHandshake','LongWord')( $00002000);
14844: Const('dcb_RtsControlToggle','LongWord')( $00003000);
14845: Const('dcb_AbortOnError','LongWord')( $00004000);
14846: Const('dcb_Reservesd','LongWord')( $FFFF8000);
14847: Const('synSB1','LongInt'( 0));
14848: Const('SB1andHalf','LongInt'( 1));
14849: Const('synSB2','LongInt'( 2));
14850: Const('synINVALID_HANDLE_VALUE','LongInt'( THandle( - 1 )));
14851: Const('CS7fix','LongWord')( $00000200);
14852: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long' +
14853:   +'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par' +
14854:   +'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : ' +
14855:   +'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14856: //AddTypeS('PDCB', '^TDCB // will not work');
14857: //Const('MaxRates','LongInt'( 18));
14858: //Const('MaxRates','LongInt'( 30));
14859: //Const('MaxRates','LongInt'( 19));
14860: Const('O_SYNC','LongWord')( $0080);
14861: Const('synOK','LongInt'( 0));
14862: Const('synErr','LongInt'( integer( - 1 )));
14863: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,' +
14864:   HR_WriteCount, HR_Wait )');
14865: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string'));
14866: SIRegister_ESynaSerError(CL);
14867: SIRegister_TBlockSerial(CL);
14868: Function GetSerialPortNames : string;
14869: end;
14870: procedure SIRegister_synaicnv(CL: TPSPPascalCompiler);
14871: begin
14872: Const('DLLIconvName','String 'libiconv.so');
14873: Const('DLLIconvName','String 'iconv.dll');
14874: AddTypeS('size_t','Cardinal');
14875: AddTypeS('iconv_t','Integer');
14876: //AddTypeS('iconv_t','Pointer');
14877: AddTypeS('argptr','iconv_t');
14878: Function SynalconvOpen( const tocode, fromcode : Ansistring ) : iconv_t;
14879: Function SynalconvOpenTranslit( const tocode, fromcode : Ansistring ) : iconv_t;
14880: Function SynalconvOpenIgnore( const tocode, fromcode : Ansistring ) : iconv_t;
14881: Function Synalconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString ) : integer;
14882: Function SynalconvClose( var cd : iconv_t ) : integer;
14883: Function SynalconvCtl( cd : iconv_t; request : integer; argument : argptr ) : integer;
14884: Function IsIconvloaded : Boolean;
14885: Function InitIconvInterface : Boolean;
14886: Function DestroyIconvInterface : Boolean;
14887: Const('ICONV_TRIVIALP','LongInt'( 0));
14888: Const('ICONV_GET_TRANSLITERATE','LongInt'( 1));
14889: Const('ICONV_SET_TRANSLITERATE','LongInt'( 2));
14890: Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3));
14891: Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4));
14892: end;
14893:
14894: procedure SIRegister_pingsend(CL: TPSPPascalCompiler);
14895: begin
14896: Const('ICMP_ECHO','LongInt'( 8));
14897: Const('ICMP_ECHOREPLY','LongInt'( 0));
14898: Const('ICMP_UNREACH','LongInt'( 3));
14899: Const('ICMP_TIME_EXCEEDED','LongInt'( 11));
14900: Const('ICMP6_ECHO','LongInt'( 128));
14901: Const('ICMP6_ECHOREPLY','LongInt'( 129));
14902: Const('ICMP6_UNREACH','LongInt'( 1));
14903: Const('ICMP6_TIME_EXCEEDED','LongInt'( 3));
14904: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOr' +
14905:   +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14906: SIRegister_TPINGSend(CL);
14907: Function PingHost( const Host : string ) : Integer;
14908: Function TraceRouteHost( const Host : string ) : string;
14909: end;
14910:
14911: procedure SIRegister_asn1util(CL: TPSPPascalCompiler);
14912: begin
14913: AddConstantN('synASN1_BOOL','LongWord')( $01);
14914: Const('synASN1_INT','LongWord')( $02);
14915: Const('synASN1_OCTSTR','LongWord')( $04);
14916: Const('synASN1_NULL','LongWord')( $05);
14917: Const('synASN1_OBJID','LongWord')( $06);
14918: Const('synASN1_ENUM','LongWord')( $0a);

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14919: Const('synASN1_SEQ','LongWord')($30);
14920: Const('synASN1_SETOF','LongWord')($31);
14921: Const('synASN1_IPADDR','LongWord')($40);
14922: Const('synASN1_COUNTER','LongWord')($41);
14923: Const('synASN1_GAUGE','LongWord')($42);
14924: Const('synASN1_TIMETICKS','LongWord')($43);
14925: Const('synASN1_OPAQUE','LongWord')($44);
14926: Function synASNEncOIDItem( Value : Integer ) : AnsiString';
14927: Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString ) : Integer';
14928: Function synASNEncLen( Len : Integer ) : AnsiString';
14929: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString ) : Integer';
14930: Function synASNEncInt( Value : Integer ) : AnsiString';
14931: Function synASNEncUInt( Value : Integer ) : AnsiString';
14932: Function synASNObject( const Data : AnsiString; ASNType : Integer ) : AnsiString';
14933: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14934: Function synMibToid( Mib : String ) : AnsiString';
14935: Function synIdToMib( const Id : AnsiString ) : String';
14936: Function synIntMibToStr( const Value : AnsiString ) : AnsiString';
14937: Function ASNdump( const Value : AnsiString ) : AnsiString';
14938: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings ) : Boolean';
14939: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14940: end;
14941:
14942: procedure SIRegister_ldapsend(CL: TSPascalCompiler);
14943: begin
14944:   Const('cLDAPProtocol','String '389');
14945:   Const('LDAP ASN1_BIND_REQUEST','LongWord')($60);
14946:   Const('LDAP ASN1_BIND_RESPONSE','LongWord')($61);
14947:   Const('LDAP ASN1_UNBIND_REQUEST','LongWord')($42);
14948:   Const('LDAP ASN1_SEARCH_REQUEST','LongWord')($63);
14949:   Const('LDAP ASN1_SEARCH_ENTRY','LongWord')($64);
14950:   Const('LDAP ASN1_SEARCH_DONE','LongWord')($65);
14951:   Const('LDAP ASN1_SEARCH_REFERENCE','LongWord')($73);
14952:   Const('LDAP ASN1 MODIFY_REQUEST','LongWord')($66);
14953:   Const('LDAP ASN1 MODIFY_RESPONSE','LongWord')($67);
14954:   Const('LDAP ASN1_ADD_REQUEST','LongWord')($68);
14955:   Const('LDAP ASN1_ADD_RESPONSE','LongWord')($69);
14956:   Const('LDAP ASN1_DEL_REQUEST','LongWord')($4A);
14957:   Const('LDAP ASN1_DEL_RESPONSE','LongWord')($6B);
14958:   Const('LDAP ASN1 MODIFYDN_REQUEST','LongWord')($6C);
14959:   Const('LDAP ASN1 MODIFYDN_RESPONSE','LongWord')($6D);
14960:   Const('LDAP ASN1_COMPARE_REQUEST','LongWord')($6E);
14961:   Const('LDAP ASN1_COMPARE_RESPONSE','LongWord')($6F);
14962:   Const('LDAP ASN1_ABANDON_REQUEST','LongWord')($70);
14963:   Const('LDAP ASN1 EXT_REQUEST','LongWord')($77);
14964:   Const('LDAP ASN1 EXT_RESPONSE','LongWord')($78);
14965:   SIRegister_TLDAPAttribute(CL);
14966:   SIRegister_TLDAPAttributeList(CL);
14967:   SIRegister_TLDAPResult(CL);
14968:   SIRegister_TLDAPResultList(CL);
14969:   AddTypes('TLDAPModifyOp','( MO_Add, MO_Delete, MO_Replace )');
14970:   AddTypes('TLDAPSearchScope','( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14971:   AddTypes('TLDAPSearchAliases','( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14972:   SIRegister_TLDAPSnd(CL);
14973:   Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14974: end;
14975:
14976:
14977: procedure SIRegister_slogsend(CL: TSPascalCompiler);
14978: begin
14979:   Const('cSysLogProtocol','String '514');
14980:   Const('FCL_Kernel','LongInt'( 0));
14981:   Const('FCL_UserLevel','LongInt'( 1));
14982:   Const('FCL_MailSystem','LongInt'( 2));
14983:   Const('FCL_System','LongInt'( 3));
14984:   Const('FCL_Security','LongInt'( 4));
14985:   Const('FCL_Syslogd','LongInt'( 5));
14986:   Const('FCL_Printer','LongInt'( 6));
14987:   Const('FCL_News','LongInt'( 7));
14988:   Const('FCL_UUCP','LongInt'( 8));
14989:   Const('FCL_Clock','LongInt'( 9));
14990:   Const('FCL_Authorization','LongInt'( 10));
14991:   Const('FCL_FTP','LongInt'( 11));
14992:   Const('FCL_NTP','LongInt'( 12));
14993:   Const('FCL_LogAudit','LongInt'( 13));
14994:   Const('FCL_LogAlert','LongInt'( 14));
14995:   Const('FCL_Time','LongInt'( 15));
14996:   Const('FCL_Local0','LongInt'( 16));
14997:   Const('FCL_Local1','LongInt'( 17));
14998:   Const('FCL_Local2','LongInt'( 18));
14999:   Const('FCL_Local3','LongInt'( 19));
15000:   Const('FCL_Local4','LongInt'( 20));
15001:   Const('FCL_Local5','LongInt'( 21));
15002:   Const('FCL_Local6','LongInt'( 22));
15003:   Const('FCL_Local7','LongInt'( 23));
15004:   Type(TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning, Notice, Info, Debug)');
15005:   SIRegister_TSyslogMessage(CL);
15006:   SIRegister_TSyslogSend(CL);
15007:   Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const Content:string):Boolean;

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15008: end;
15009:
15010:
15011: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
15012: begin
15013:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
15014:   SIRegister_TMessHeader(CL);
15015:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
15016:   SIRegister_TMimeMess(CL);
15017: end;
15018:
15019: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
15020: begin
15021:   (FindClass('TOBJECT'), 'TMimePart');
15022:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
15023:   AddTypes('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
15024:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
15025:   SIRegister_TMimePart(CL);
15026:   Const('MaxMimeType', 'LongInt'( 25));
15027:   Function GenerateBoundary : string';
15028: end;
15029:
15030: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
15031: begin
15032:   Function InlineDecode( const Value : string; CP : TMimeChar) : string';
15033:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string';
15034:   Function NeedInline( const Value : Ansistring) : boolean';
15035:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
15036:   Function InlineCode( const Value : string) : string';
15037:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
15038:   Function InlineEmail( const Value : string) : string');
15039: end;
15040:
15041: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
15042: begin
15043:   Const('cFtpProtocol', 'String '21');
15044:   Const('cFtpDataProtocol', 'String '20');
15045:   Const('FTP_OK', 'LongInt'( 255);
15046:   Const('FTP_ERR', 'LongInt'( 254);
15047:   AddTypes('TFTPStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
15048:   SIRegister_TFTPLListRec(CL);
15049:   SIRegister_TFTPLList(CL);
15050:   SIRegister_TFTPSend(CL);
15051:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
15052:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
15053:   Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string) : Boolean';
15054: end;
15055:
15056: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
15057: begin
15058:   Const('cHttpProtocol', 'String '80');
15059:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
15060:   SIRegister_THTTPSend(CL);
15061:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
15062:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
15063:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
15064:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
15065:   Function HttpPostFile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
15066: end;
15067:
15068: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
15069: begin
15070:   Const('cSmtpProtocol', 'String '25');
15071:   SIRegister_TSMTPSend(CL);
15072:   Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
15073:   Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
15074:   Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Username, Password : string):Boolean';
15075: end;
15076:
15077: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
15078: begin
15079:   Const('cSnmpProtocol', 'String '161');
15080:   Const('cSnmpTrapProtocol', 'String '162');
15081:   Const('SNMP_V1', 'LongInt'( 0);
15082:   Const('SNMP_V2C', 'LongInt'( 1);
15083:   Const('SNMP_V3', 'LongInt'( 3);
15084:   Const('PDUGetRequest', 'LongWord')($A0);
15085:   Const('PDUGetNextRequest', 'LongWord')($A1);
15086:   Const('PDUGetResponse', 'LongWord')($A2);
15087:   Const('PDUSetRequest', 'LongWord')($A3);
15088:   Const('PDUTrap', 'LongWord')($A4);
15089:   Const('PDUGetBulkRequest', 'LongWord')($A5);
15090:   Const('PDUInformRequest', 'LongWord')($A6);
15091:   Const('PDUTrapV2', 'LongWord')($A7);
15092:   Const('PDUReport', 'LongWord')($A8);

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15093: Const('ENoError',LongInt 0;
15094: Const('ETooBig','LongInt')( 1);
15095: Const('ENoSuchName','LongInt')( 2);
15096: Const('EBadValue','LongInt')( 3);
15097: Const('EReadOnly','LongInt')( 4);
15098: Const('EGenErr','LongInt')( 5);
15099: Const('ENoAccess','LongInt')( 6);
15100: Const('EWrongType','LongInt')( 7);
15101: Const('EWrongLength','LongInt')( 8);
15102: Const('EWrongEncoding','LongInt')( 9);
15103: Const('EWrongValue','LongInt')( 10);
15104: Const('ENOCreation','LongInt')( 11);
15105: Const('EInconsistentValue','LongInt')( 12);
15106: Const('EResourceUnavailable','LongInt')( 13);
15107: Const('ECommitFailed','LongInt')( 14);
15108: Const('EUndoFailed','LongInt')( 15);
15109: Const('EAuthorizationError','LongInt')( 16);
15110: Const('ENotWritable','LongInt')( 17);
15111: Const('EInconsistentName','LongInt')( 18);
15112: AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15113: AddTypes('TV3Auth', '( AuthMD5, AuthSHA1 )');
15114: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15115: SIRegister_TSNSMPMib(CL);
15116: AddTypes('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer; '
15117:   + 'EngineTime : integer; EngineStamp : Cardinal; end');
15118: SIRegister_TSNSMPRec(CL);
15119: SIRegister_TSNSMPSend(CL);
15120: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString ) : Boolean';
15121: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer ) : Boolean';
15122: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15123: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings) : Boolean;
15124: Function SNMPGetTableElement(const BaseOID,RowID,ColID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15125: Function SendTrap(const Dest,Source,Enterprise,Community : AnsiString; Generic, Specific, Seconds : Integer; const MIBName, MIBValue : AnsiString; MIBtype : Integer );
15126: Function RecvTrap(var Dest,Source,Enterprise,Community: AnsiString; var Generic, Specific, Seconds : Integer; const MIBName, MIBValue : TStringList ) : Integer );
15127: end;
15128:
15129: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15130: begin
15131:   Function GetDomainName2: AnsiString );
15132:   Function GetDomainController( Domain : AnsiString ) : AnsiString );
15133:   Function GetDomainUsers( Controller : AnsiString ) : AnsiString );
15134:   Function GetDomainGroups( Controller : AnsiString ) : AnsiString );
15135:   Function GetDateTime( Controller : AnsiString ) : TDateTime );
15136:   Function GetFullName2( Controller, UserID : AnsiString ) : AnsiString );
15137: end;
15138:
15139: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15140: begin
15141:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15142:   TwwDateTimeSelection'(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM);
15143:   Function wwStrToDate( const S : string ) : boolean );
15144:   Function wwStrToTime( const S : string ) : boolean );
15145:   Function wwStrToDateTime( const S : string ) : boolean );
15146:   Function wwStrToTimeVal( const S : string ) : TDateTime );
15147:   Function wwStrToDateVal( const S : string ) : TDateTime );
15148:   Function wwStrToDateTimeVal( const S : string ) : TDateTime );
15149:   Function wwStrToInt( const S : string ) : boolean );
15150:   Function wwStrToFloat( const S : string ) : boolean );
15151:   Function wwGetDateOrder( const DateFormat : string ) : TwwDateOrder );
15152:   Function wwNextDay( Year, Month, Day : Word ) : integer );
15153:   Function wwPriorDay( Year, Month, Day : Word ) : integer );
15154:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime ) : Boolean );
15155:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime ) : Boolean );
15156:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15157:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string ) : TwwDateTimeSelection );
15158:   Function wwScanDate( const S : string; var Date : TDateTime ) : Boolean );
15159:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer ) : Boolean );
15160: Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool);
15161: Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean );
15162: end;
15163:
15164: unit uPSI_Themes;
15165: Function ThemeServices : TThemeServices );
15166: Function ThemeControl( AControl : TControl ) : Boolean );
15167: Function UnthemedDesigner( AControl : TControl ) : Boolean );
15168: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15169: begin
15170:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String ) : String );
15171: end;
15172: Unit uPSC_menus;
15173: Function StripHotkey( const Text : string ) : string );
15174: Function GetHotkey( const Text : string ) : string );
15175: Function AnsiSameCaption( const Text1, Text2 : string ) : Boolean );
15176: Function IsAltGRPressed : boolean );
15177:
15178: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15179: begin

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15180: TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15181: SIRegister_TIdIMAP4Server(CL);
15182: end;
15183:
15184: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15185: begin
15186:   'HASH_SIZE', 'LongInt'('256');
15187:   CL.FindClass('TOBJECT','EVariantSymbolTable');
15188:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15189:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15190:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15191:     +' : Integer; Value : Variant; end');
15192:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15193:   SIRegister_TVariantSymbolTable(CL);
15194: end;
15195:
15196: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15197: begin
15198:   SIRegister_TThreadLocalVariables(CL);
15199:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar';
15200:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15201:   Function ThreadLocals : TThreadLocalVariables';
15202:   Procedure WriteDebug( sz : String );
15203:   CL.AddConstantN('UDF_SUCCESS','LongInt'( 0 );
15204:   'UDF_FAILURE','LongInt'( 1 );
15205:   'cSignificantlyLarger','LongInt'( 1024 * 4 );
15206:   CL.AddTypeS('mTByteArray', 'array of byte;');
15207:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15208:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15209:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15210:   function IsNetworkConnected: Boolean;
15211:   function IsInternetConnected: Boolean;
15212:   function IsCOMConnected: Boolean;
15213:   function IsNetworkOn: Boolean;
15214:   function IsInternetOn: Boolean;
15215:   function IsCOMON: Boolean;
15216:   Function SetTimer(hWnd : HWND; nIDEEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15217:   TmrProc', 'procedure TmrProc(hWnd: HWND; uMsg: Integer; idEvent: Integer; dwTime: Integer);';
15218:   Function SetTimer2( hWnd : HWND; nIDEEvent, uElapse : UINT; lpTimerFunc : TmrProc ) : UINT';
15219:   Function KillTimer( hWnd : HWND; uIDEvent : UINT ) : BOOL';
15220:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15221:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15222:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15223:   Function GetMenu( hWnd : HWND ) : HMENU';
15224:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15225: end;
15226:
15227: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15228: begin
15229:   SIRegister_IDataBlock(CL);
15230:   SIRegister_ISendDataBlock(CL);
15231:   SIRegister_ITransport(CL);
15232:   SIRegister_TDataBlock(CL);
15233:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15234:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15235:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15236:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15237:   SIRegister_TCustomDataBlockInterpreter(CL);
15238:   SIRegister_TSendDataBlock(CL);
15239:   'CallSig','LongWord')( $D800 );
15240:   'ResultSig','LongWord')( $D400 );
15241:   'asMask','LongWord')( $00FF );
15242:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15243:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15244:   Procedure CheckSignature( Sig : Integer );
15245: end;
15246:
15247: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15248: begin
15249:   //CL.AddTypeS('HINTERNET', '__Pointer');
15250:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15251:   CL.AddTypeS('HINTERNET', 'Integer');
15252:   CL.AddTypeS('HINTERNET2', '__Pointer');
15253:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15254:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15255:   CL.AddTypeS('INTERNET_PORT', 'Word');
15256:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15257:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15258:   Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD) : BOOL;
15259:   'INTERNET_RFC1123_FORMAT','LongInt'( 0 );
15260:   'INTERNET_RFC1123_BUFSIZE','LongInt'( 30 );
15261:   Function InternetCrackUrl(lpszUrl:PChar;dwUrlLength,dwFlags:DWORD;var
15262:   lpUrlComponents:TURLComponents):BOOL;
15263:   Function InternetCreateUrl(var lpUrlComponts:TURLCompons;dwFlags:DWORD;lpszUrl:PChar;var
15264:   dwUrlLength:DWORD):BOOL;
15265:   Function InternetCloseHandle(hInet : HINTERNET) : BOOL';
15266:   Function
15267:   InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
15268:   lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;

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15265: Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
15266: ;dwContext:DWORD):HINTERNET;
15267: Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
lpszProxyBypass:PChar;dwFlags:DWORD):HINTERNET;
15268: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
dwContext:DWORD):BOOL;
15269: Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15270: Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15271: Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15272: Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15273: Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15274: Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15275: Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15276: Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15277: Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
lpdwBufferLength : Function InternetCloseHandle( hInet : HINTERNET ) : BOOL');
15278: Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar
lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD; dwContext:DWORD):HINTERNET;
15279: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
dwContext:DWORD):BOOL;
15280: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET';
15281: Function WFTPGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL';
15282: Function
WFTPPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15283: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL';
15284: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15285: Function
FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15286: Function FtpCreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15287: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15288: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar) : BOOL';
15289: Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15290: Function
FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommd:PChar;dwContxt:DWORD):BOOL;
15291: Function IS_GOPHER_FILE( GopherType : DWORD ) : BOOL';
15292: Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL';
15293: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL';
15294: Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL';
15295: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL';
15296: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL';
15297: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL';
15298: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL';
15299: Function IS_GOPHER_ASK( GopherType : DWORD ) : BOOL';
15300: Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL';
15301: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL';
15302: Function IS_GOPHER_TYPE_UNKNOWN( GopherType : DWORD ) : BOOL';
15303: Function
GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15304: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15305: Function
GopherOpenFile(hConct:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15306: Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15307: Function
HttpAddRequestHeaders(hReq:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15308: Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar;
dwHeadersLength:DWORD;lpOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15309: Function InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15310: Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD';
15311: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15312: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15313: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPTSTR; bPost : BOOL ) : DWORD';
15314: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject ) : Int64';
15315: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject ) : Bool';
15316: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
lpFirstCacheEntryInfo:TIInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15317: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TIInternetCacheEntryInfo; var
lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15318: Function FindCloseUrlCache( hEnumHandle : THHandle):BOOL;
15319: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15320: Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15321: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD ) : BOOL';
15322: end;
15323:
15324: procedure SIRRegister_Wwstr(CL: TPSPascalCompiler);
15325: begin
15326: AddTypeS('str CharSet', 'set of char');
15327: TwwGetWordOption','(wwgwSkipLeadingBlanks, wwgwQuotesAsWords,wwgwStripQuotes , wwgwSpacesInWords);
15328: AddTypeS('TwwGetWordOptions', 'set of TwwGetWordOption');
15329: Procedure strBreakApart( s : string; delimiter : string; parts : TStrings)');
15330: Function strGetToken( s : string; delimiter : string; var APos : integer ) : string';
15331: Procedure strStripPreceding( var s : string; delimiter : str CharSet)');
15332: Procedure strStripTrailing( var s : string; delimiter : str CharSet)');
15333: Procedure strStripWhiteSpace( var s : string)');

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15334: Function strRemoveChar( str : string; removeChar : char ) : string');
15335: Function wwstrReplaceChar( str : string; removeChar, replaceChar : char ) : string');
15336: Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string ) : string');
15337: Function wwEqualStr( s1, s2 : string ) : boolean');
15338: Function strCount( s : string; delimiter : char ) : integer');
15339: Function strWhiteSpace : str CharSet');
15340: Function wwExtractFileNameOnly( const FileName : string ) : string');
15341: Function wwGetWord(s:string; var APos:integer; Options:TwwGetWordOptions; DelimSet:str CharSet):string;
15342: Function strTrailing( s : string; delimiter : char ) : string');
15343: Function strPreceding( s : string; delimiter : char ) : string');
15344: Function wwstrReplace( s, Find, Replace : string ) : string');
15345: end;
15346:
15347: procedure SIRegister_DataBkr(CL: TPSPPascalCompiler);
15348: begin
15349:   SIRegister_TRemoteDataModule(CL);
15350:   SIRegister_TCRremoteDataModule(CL);
15351:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)');
15352:   Procedure UnregisterPooled( const ClassID : string)');
15353:   Procedure EnableSocketTransport( const ClassID : string)');
15354:   Procedure DisableSocketTransport( const ClassID : string)');
15355:   Procedure EnableWebTransport( const ClassID : string)');
15356:   Procedure DisableWebTransport( const ClassID : string)');
15357: end;
15358:
15359: procedure SIRegister_Mathbox(CL: TPSPPascalCompiler);
15360: begin
15361:   Function mxArcCos( x : Real ) : Real');
15362:   Function mxArcSin( x : Real ) : Real');
15363:   Function Comp2Str( N : Comp ) : String');
15364:   Function Int2StrPad0( N : LongInt; Len : Integer ) : String');
15365:   Function Int2Str( N : LongInt ) : String');
15366:   Function mxIsEqual( R1, R2 : Double ) : Boolean');
15367:   Function LogXY( x, y : Real ) : Real');
15368:   Function Pennies2Dollars( C : Comp ) : String');
15369:   Function mxPower( X : Integer; Y : Integer ) : Real');
15370:   Function Real2Str( N : Real; Width, Places : integer ) : String');
15371:   Function mxStr2Comp( MyString : string ) : Comp');
15372:   Function mxStr2Pennies( S : String ) : Comp');
15373:   Function Str2Real( MyString : string ) : Real');
15374:   Function XToThey( x, y : Real ) : Real');
15375: end;
15376:
15377: //*****Cindy Functions!*****
15378: procedure SIRegister_cyIndy(CL: TPSPPascalCompiler);
15379: begin
15380:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml'
15381:     + '_Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach, '
15382:     + 'cmAlterText_Html_RelatedAttach, cmAlterText_Html_Attach_RelatedAttach, cmReadNotification )');
15383:   MessagePlainText', 'String 'text/plain');
15384:   CL.AddConstantN('MessagePlainText_Attach', 'String 'multipart/mixed');
15385:   MessageAlterText_Html', 'String 'multipart/alternative');
15386:   MessageHtml_Attach', 'String 'multipart/mixed');
15387:   MessageHtml_RelatedAttach', 'String 'multipart/related; type="text/html"');
15388:   MessageAlterText_Html_Attach', 'String 'multipart/mixed');
15389:   MessageAlterText_Html_RelatedAttach', 'String '( 'multipart/related; type="multipart/alternative" );
15390:   MessageAlterText_Html_Attach_RelatedAttach', 'String 'multipart/mixed');
15391:   MessageReadNotification', 'String '(. ('multipart/report; report-type="disposition-notification" ';
15392:   Function ForceDecodeHeader( aHeader : String ) : String');
15393:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding ) : string');
15394:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding ) : String');
15395:   Function Base64_DecodeToBytes( Value : String ) : TBytes');
15396:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15397:   Function Get_MD5( const aFileName : string ) : string');
15398:   Function Get_MD5FromString( const aString : string ) : string');
15399: end;
15400:
15401: procedure SIRegister_cySysUtils(CL: TPSPPascalCompiler);
15402: begin
15403:   Function IsFolder( SRec : TSearchrec ) : Boolean');
15404:   Function isFolderReadOnly( Directory : String ) : Boolean');
15405:   Function DirectoryIsEmpty( Directory : String ) : Boolean');
15406:   Function DirectoryWithSubDir( Directory : String ) : Boolean');
15407:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings );
15408:   Function DiskFreeBytes( Drv : Char ) : Int64');
15409:   Function DiskBytes( Drv : Char ) : Int64');
15410:   Function GetFileBytes( Filename : String ) : Int64');
15411:   Function GetFilesBytes( Directory, Filter : String ) : Int64');
15412:   SE_CREATE_TOKEN_NAME', 'String 'SeCreateTokenPrivilege');
15413:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege');
15414:   SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege');
15415:   SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege');
15416:   SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege');
15417:   SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege');
15418:   SE_TCB_NAME', 'String 'SeTcbPrivilege');
15419:   SE_SECURITY_NAME', 'String 'SeSecurityPrivilege');
15420:   SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege');
15421:   SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege');
15422:   SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege');

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15423: SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege');
15424: SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege');
15425: SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege');
15426: SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege');
15427: SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege');
15428: SE_BACKUP_NAME', 'String 'SeBackupPrivilege');
15429: SE_RESTORE_NAME', 'String 'SeRestorePrivilege');
15430: SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege');
15431: SE_DEBUG_NAME', 'String 'SeDebugPrivilege');
15432: SE_AUDIT_NAME', 'String 'SeAuditPrivilege');
15433: SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege');
15434: SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege');
15435: SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege');
15436: SE_UNDOCK_NAME', 'String 'SeUndockPrivilege');
15437: SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege');
15438: SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege');
15439: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege');
15440: end;
15441:
15442:
15443: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15444: begin
15445:   Type(TWindowsVersion, '( wvUnknown, wvWin31, wvWin98, wvWin'
15446:     + 'Me, wvWinNT3, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Or_Upper )');
15447:   Function ShellGetExtensionName(FileName : String) : String';
15448:   Function ShellGetIconIndex(FileName : String) : Integer';
15449:   Function ShellGetIconHandle(FileName : String) : HIcon';
15450:   Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string)');
15451:   Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string)');
15452:   Procedure ShellRenameDir( DirFrom, DirTo : string)';
15453:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15454:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15455:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String)';
15456:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string)');
15457:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean';
15458:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer)';
15459:   Function RemoveDuplicatedPathDelimiter( Str : String) : String';
15460:   Function cyFileTimeToDate( _FT : TFileTime) : TDateTime';
15461:   Function GetModificationDate( Filename : String) : TDateTime';
15462:   Function GetCreationDate( Filename : String) : TDateTime';
15463:   Function GetLastAccessDate( Filename : String) : TDateTime';
15464:   Function FileDelete( Filename : String) : Boolean';
15465:   Function FileIsOpen( Filename : string) : boolean';
15466:   Procedure FileDelete( FromDirectory : String; Filter : ShortString)';
15467:   Function DirectoryDelete( Directory : String) : Boolean';
15468:   Function GetPrinters( PrintersList : TStrings) : Integer';
15469:   Procedure SetDefaultPrinter( PrinterName : String)';
15470:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer)';
15471:   Function WinToDosPath( WinPathName : String) : String';
15472:   Function DosToWinPath( DosPathName : String) : String';
15473:   Function cyGetWindowsVersion : TWindowsVersion';
15474:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean) : Boolean';
15475:   Procedure WindowsShutDown( Restart : boolean)';
15476:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
  FileIcon:string;NumIcone:integer);
15477:   Procedure GetWindowsFonts( FontsList : TStrings)';
15478:   Function GetAvailableFilename( DesiredFileName : String): String';
15479: end;
15480:
15481: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15482: begin
15483:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15484:   Type(TStrLocateOptions', 'set of TStrLocateOption');
15485:   Type(TStringRead', '( srFromLeft, srFromRight )');
15486:   Type(TStringReads', 'set of TStringRead');
15487:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15488:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15489:   Type(TWordsOptions', 'set of TWordsOption');
15490:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15491:   Type(TCarTypes', 'set of TCarType');
15492:   //CL.AddTypes('TUnicodeCategories', 'set of TUnicodeCategory');
15493:   CarTypeAlphabetic', 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15494:   Function Char_GetType( aChar : Char) : TCarType';
15495:   Function SubString_Count( Str : String; Separator : Char) : Integer';
15496:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word) : Integer';
15497:   Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word) : String';
15498:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word) : Integer';
15499:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String');
15500:   Procedure SubString_Insert(var Str:String;Separator:Char; SubStringIndex:Word; Value : String');
15501:   Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word; NewValue : String');
15502:   Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15503:   Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15504:   Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer):Integer';
15505:   Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15506:   Function String_Quote( Str : String) : String';
15507:   Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char) : Char';
15508:   Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15509:   Function String_GetWord( Str : String; StringRead : TStringRead) : String');

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15510: Function String_GetInteger( Str : String; StringRead : TStringRead ) : String');
15511: Function String_ToInt( Str : String ) : Integer');
15512: Function String_Uppercase( Str : String; Options : TWordsOptions ) : String');
15513: Function String_Lowercase( Str : String; Options : TWordsOptions ) : String');
15514: Function String_Reverse( Str : String ) : String');
15515: Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15516: Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive :
TCaseSensitive):Integer');
15517: Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15518: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15519: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive ) : String');
15520: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15521: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive ) : String');
15522: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads ) : String');
15523: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer ) : String');
15524: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15525: Function String_End( Str : String; Cars : Word ) : String');
15526: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean) : String');
15527: Function String_SubstCar( Str : String; Old, New : Char ) : String');
15528: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive ) : Integer');
15529: Function String_SameCars(Str1,Str2:String;StopCount_IfDifferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15530: Function String_IsNumbers( Str : String ) : Boolean');
15531: Function SearchPos( Substr : String; Str : String; MaxErrors : Integer ) : Integer');
15532: Function StringToCsvCell( aStr : String ) : String');
15533: end;
15534:
15535: procedure SIRegister_cyDateUtils(CL: TPSPascalCompiler);
15536: begin
15537:   Function LongDayName( aDate : TDate ) : String');
15538:   Function LongMonthName( aDate : TDate ) : String');
15539:   Function ShortYearOf( aDate : TDate ) : byte');
15540:   Function DateToStrYYYYMMDD( aDate : TDate ) : String');
15541:   Function StrYYYYMMDDToDate( aStr : String ) : TDate');
15542:   Function SecondsToMinutes( Seconds : Integer ) : Double');
15543:   Function MinutesToSeconds( Minutes : Double ) : Integer');
15544:   Function MinutesToHours( Minutes : Integer ) : Double');
15545:   Function HoursToMinutes( Hours : Double ) : Integer');
15546:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime');
15547:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer );
15548:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime');
15549:   Function GetMinutesBetween( DateTime1, DateTime2 : TDateTime ) : Int64';
15550:   Function GetMinutesBetween1(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15551:   Function GetSecondsBetween( DateTime1, DateTime2 : TDateTime ) : Int64');
15552:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
RsltBegin:TDateTime; RsltEnd : TDateTime) : Boolean');
15553:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15554:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean');
15555: end;
15556:
15557: procedure SIRegister_cyObjUtils(CL: TPSPascalCompiler);
15558: begin
15559:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15560:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15561:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15562:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15563:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer');
15564:   Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer');
15565:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer');
15566:   Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind)');
15567:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15568:   Function TreeNodeLocate( ParentNode : TTTreeNode; Value : String ) : TTTreeNode');
15569:   Function TreeNodeLocateOnLevel( TreeView : TTTreeView; OnLevel : Integer; Value : String ) : TTTreeNode');
15570:   Function
TreeNodeGetChildFromIndex(TreeView:TTTreeView;ParentNode:TTTreeNode;ChildIndex:Integer):TTTreeNode');
15571:   Function TreeNodeGetParentOnLevel( ChildNode : TTTreeNode; ParentLevel : Integer ) : TTTreeNode');
15572:   Procedure TreeNodeCopy(FromNode:TTTreeNode;ToNode:TTTreeNode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15573:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormattedString : String)');
15574:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15575:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl');
15576:   Procedure cyCenterControl( aControl : TControl );
15577:   Function GetLastParent( aControl : TControl ) : TWinControl');
15578:   Function GetControlBitmap( aControl : TWinControl ) : TBitmap');
15579:   Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap');
15580: end;
15581:
15582: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15583: begin
15584:   Function TablePackTable( Tab : TTable ) : Boolean';
15585:   Function TableRegenIndexes( Tab : TTable ) : Boolean';
15586:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean');
15587:   Function TableUndeleteRecord( Tab : TTable ) : Boolean');
15588:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15589:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean');
15590:   Function TableEmptyTable( Tab : TTable ) : Boolean');
15591:   Function TableFindKey( aTable : TTable; Value : String ) : Boolean');
15592:   Procedure TableFindNearest( aTable : TTable; Value : String );

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15593: Function
15594:   TableCreate(Owner:TComponent;DBaseName:ShortString;TblName:String;IdxName:ShortString;ReadOnly:Bool):TTable;
15595:   Function DateToBDESQLODate( aDate : TDate; const DateFormat : String) : String);
15596: end;
15597:
15598: procedure SIRegister_cyClasses(CL: TPPascalCompiler);
15599: begin
15600:   SIRegister_TcyRunTimeDesign(CL);
15601:   SIRegister_TcyShadowText(CL);
15602:   SIRegister_TcyBgPicture(CL);
15603:   SIRegister_TcyGradient(CL);
15604:   SIRegister_TcyBevel(CL);
15605:   //CL.AddTypeS('TcyBevelClass', 'class of tcyBevel');
15606:   SIRegister_TcyBevels(CL);
15607:   SIRegister_TcyImagelistOptions(CL);
15608:   Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15609: end;
15610:
15611: procedure SIRegister_cyGraphics(CL: TPPascalCompiler);
15612: begin
15613:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
15614:     adgradOrientation : TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
15615:     Maxdegrade : Byte );
15616:   SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap );
15617:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad : byte);
15618:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad:byte);
15619:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
15620:     Byte; toRect : TRect; OrientationShape : TDgradOrientationShape );
15621:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
15622:     Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap );
15623:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer );
15624:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15625:   Procedure cyFrameF(Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
15626:     BottomColor : TColor; const Width : Integer; const RoundRect : boolean );
15627:   Procedure cyFrame3D(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
15628:   BottomRightColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Boolean;const DrawRight:Boolean;const
15629:   DrawBottom:Boolean;const RoundRect:boolean );
15630:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
15631:     aState : TButtonState; Focused, Hot : Boolean );
15632:   Procedure cyDrawButton(Canvas:TCanvas; Caption:String;ARect:TRect; GradientColor1,GradientColor2:TColor;
15633:     aState : TButtonState; Focused, Hot : Boolean );
15634:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 :
15635:     TColor; aState : TButtonState; Focused, Hot : Boolean );
15636:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
15637:     GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean );
15638:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
15639:     const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor );
15640:   Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
15641:     TextLayout : TTTextLayout; const IndentX : Integer; const IndentY : Integer );
15642:   Function DrawTextFormatFlags(aTextFormat:LongInt:Alignment
15643:     TAlignment;Layout:TTTextLayout;WordWrap:Bool):LongInt;
15644:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTTextLayout;
15645:     WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt );
15646:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt );
15647:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont );
15648:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont );
15649:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
15650:     CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTTextLayout );
15651:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
15652:     Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord );
15653:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
15654:     Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord );
15655:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ) : boolean );
15656:   Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean );
15657:   Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean );
15658:   Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean );
15659:   Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );
15660:   Procedure DrawCanvas1(Destination:TCanvas;
15661:   DestRect:TRect;Src:TCanvas;SrcRect:TRect;TransparentColor:TColor; const aStyle:TBgStyle; const
15662:   aPosition:TBgPosition; const IndentX : Integer; const IndentY : Integer;const IntervalX : Integer; const
15663:   IntervalY : Integer; const RepeatX:Integer;const RepeatY:Integer);
15664:   Procedure DrawGraphic( Destination : TCanvas; DestRect : TRect; aGraphic : TGraphic; SrcRect : TRect;
15665:   TransparentColor:TColor; const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer;
15666:   const IndentY:Integer;const IntervalX:Integer;const IntervalY:Integer;const RepeatX:Integer;const
15667:   RepeatY:Integer );
15668:   Procedure DrawGraphic1(Destination:TCanvas; DestRect:TRect;aGraphic : TGraphic; Transparent : Boolean;
15669:   const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer; const IndentY : Integer;
15670:   const IntervalX:Integer; const IntervalY : Integer; const RepeatX:Integer; const RepeatY:Integer );
15671:   Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap );
15672:   Function ValidGraphic( aGraphic : TGraphic ) : Boolean );
15673:   Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor );
15674:   Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor );
15675:   Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor );
15676:   Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor );
15677:   Function MediumColor( Color1, Color2 : TColor ) : TColor );
15678:   Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect );
15679:   Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect );

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15654: Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect';
15655: Procedure InflateRectPercent( var aRect : TRect; withPercent : Double );
15656: Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect';
15657: Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect';
15658: Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean';
15659: Function PointInEllipse( const aPt : TPoint; const aRect : TRect ) : boolean';
15660: Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer';
15661: end;
15662:
15663: procedure SIRegister_cyTypes(CL: TPPascalCompiler);
15664: begin
15665:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight )');
15666:   Type(TGlyphLayout', '( glTop, glCenter, glBottom )');
15667:   Type(TDisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome )');
15668:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis )');
15669:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed )');
15670:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15671:     +' bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft)');
15672:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional )');
15673:   Type(TcyBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext )');
15674:   Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle )');
15675:   Type(TDgradOrientationShape', '( osRadial, osRectangle )');
15676:   Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15677:   bmInvertReverseFromColor));
15678:   Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15679:   rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight )');
15680:   Type(TLineCoord', 'record BottomCoord : TPoint; TopCoord : TPoint; end');
15681:   cCaptionOrientationWarning', 'String')('Note that text orientation doesn''t work with all fonts!');
15682: end;
15683: procedure SIRegister_WinSvc(CL: TPPascalCompiler);
15684: begin
15685:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15686:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15687:   Const SERVICES_FAILED_DATABASEA', 'String 'ServicesFailed');
15688:   Const SERVICES_FAILED_DATABASEW', 'String 'ServicesFailed');
15689:   Const SERVICES_FAILED_DATABASE', 'String 'SERVICES_FAILED_DATABASEA');
15690:   Const SC_GROUP_IDENTIFIERA', 'String') '+' );
15691:   Const SC_GROUP_IDENTIFIERW', 'String') '+' );
15692:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15693:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFF');
15694:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15695:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15696:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15697:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15698:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15699:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15700:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15701:   Const SERVICE_STOPPED', 'LongWord $00000001);
15702:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15703:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15704:   Const SERVICE_RUNNING', 'LongWord $00000004);
15705:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15706:   Const SERVICE_PAUSE_PENDING', 'LongWord $00000006);
15707:   Const SERVICE_PAUSED', 'LongWord $00000007);
15708:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15709:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15710:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15711:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15712:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15713:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15714:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15715:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15716:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15717:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15718:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15719:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15720:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15721:   Const SERVICE_START', 'LongWord $0010);
15722:   Const SERVICE_STOP', 'LongWord $0020);
15723:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15724:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15725:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15726:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15727:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15728:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15729:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15730:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15731:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15732:   Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15733:   Const SERVICE_BOOT_START', 'LongWord $00000000);
15734:   Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15735:   Const SERVICE_AUTO_START', 'LongWord $00000002);
15736:   Const SERVICE_DEMAND_START', 'LongWord $00000003);
15737:   Const SERVICE_DISABLED', 'LongWord $00000004);
15738:   Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15739:   Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15740:   Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);

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15741: Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15742: CL.AddTypeS('SC_HANDLE', 'THandle');
15743: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15744: CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15745: Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState :
15746: +' : DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15747: +'cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15748: Const SERVICE_STATUS', '_SERVICE_STATUS');
15749: Const TServiceStatus', '_SERVICE_STATUS');
15750: CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15751: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15752: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15753: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15754: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15755: TEnumServiceStatus', 'TenumServiceStatusA');
15756: SC_LOCK', '__Pointer');
15757: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOner: PChar; dwLockDuration:DWORD; end';
15758: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15759: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15760: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15761: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15762: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15763: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15764: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15765: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15766: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15767: +'iceStartTime : PChar; lpdisplayName : PChar; end');
15768: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15769: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15770: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15771: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15772: TQueryServiceConfig', 'TQueryServiceConfigA');
15773: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL');
15774: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15775: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;' +
15776: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar) : SC_HANDLE');
15777: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;' +
15778: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar) : SC_HANDLE');
15779: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15780: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL');
15781: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD):BOOL' );
15782: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15783: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceName,lpDisplayName:PChar;var
lpcchBuffer:DWORD):BOOL;
15784: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK );
15785: Function NotifyBootConfigStatus( BootAcceptable : Boolean ) : Boolean';
15786: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE );
15787: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE );
15788: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : Boolean');
15789: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15790: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15791: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15792: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : Boolean';
15793: end;
15794:
15795: procedure SIRegister_JvPickDate(CL: TPSPascalCompiler);
15796: begin
15797: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor:TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate : TDateTime):Boolean;
15798: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDate
15799: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15800: Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):
TWinControl;
15801: Procedure SetupPopupCalendar(PopupCalendar:TWinControl;AStartOfWeek:TDayOfWeekName;AWeekends:TDaysOfWeek;
AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:TDateTime);
15802: Function CreateNotifyThread(const
FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15803: end;
15804:
15805: procedure SIRegister_JclNTFS2(CL: TPSPascalCompiler);
15806: begin
15807: CL.AddClassN(CL.FindClass('TOBJECT'), 'EJclNtfsError');
15808: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15809: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean;');
15810: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState;');
15811: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean');
15812: Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)');
15813: Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)');
15814: Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)');
15815: Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)');

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15816: Function NtfsSetSparse2( const FileName : string ) : Boolean';
15817: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean';
15818: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean';
15819: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean';
15820: Function NtfsGetSparse2( const FileName : string ) : Boolean';
15821: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean';
15822: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean';
15823: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean';
15824: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean';
15825: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean';
15826: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean';
15827: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean';
15828: Function NtfsMountVolume2( const Volume : WideChar; const MountPoint : WideString ) : Boolean';
15829: CL.AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
15830: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15831: Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15832: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15833: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15834: Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ) : Boolean';
15835: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean';
15836: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15837: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string ) : Boolean;
15838: CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15839: +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )');
15840: CL.AddTypeS('TStreamIds', 'set of TStreamId');
15841: TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15842: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15843: +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15844: Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Bool;
15845: Function NtfsFindNextStream2( var Data : TFindStreamData ) : Boolean';
15846: Function NtfsFindStreamClose2( var Data : TFindStreamData ) : Boolean';
15847: Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean';
15848: Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15849: Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15850: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15851: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean';
15852: Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
List:TStrings):Bool
15853: Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15854: FindClass('TOBJECT'), 'EJclFileSummaryError');
15855: TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )');
15856: TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )');
15857: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean');
15858: CL.AddClassN(CL.FindClass('TOBJECT'), 'TJclFileSummary');
15859: SIRegister_TJclFilePropertySet(CL);
15860: //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15861: SIRegister_TJclFileSummary(CL);
15862: SIRegister_TJclFileSummaryInformation(CL);
15863: SIRegister_TJclDocSummaryInformation(CL);
15864: SIRegister_TJclMediaFileSummaryInformation(CL);
15865: SIRegister_TJclMSISummaryInformation(CL);
15866: SIRegister_TJclShellSummaryInformation(CL);
15867: SIRegister_TJclStorageSummaryInformation(CL);
15868: SIRegister_TJclImageSummaryInformation(CL);
15869: SIRegister_TJclDisplacedSummaryInformation(CL);
15870: SIRegister_TJclBriefCaseSummaryInformation(CL);
15871: SIRegister_TJclMiscSummaryInformation(CL);
15872: SIRegister_TJclWebViewSummaryInformation(CL);
15873: SIRegister_TJclMusicSummaryInformation(CL);
15874: SIRegister_TJclDRMSummaryInformation(CL);
15875: SIRegister_TJclVideoSummaryInformation(CL);
15876: SIRegister_TJclAudioSummaryInformation(CL);
15877: SIRegister_TJclControlPanelSummaryInformation(CL);
15878: SIRegister_TJclVolumeSummaryInformation(CL);
15879: SIRegister_TJclShareSummaryInformation(CL);
15880: SIRegister_TJclLinkSummaryInformation(CL);
15881: SIRegister_TJclQuerySummaryInformation(CL);
15882: SIRegister_TJclImageInformation(CL);
15883: SIRegister_TJclJpegSummaryInformation(CL);
15884: end;
15885:
15886: procedure SIRegister_Jcl8087(CL: TPPascalCompiler);
15887: begin
15888: AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15889: T8087Rounding', '( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate )');
15890: T8087Infinity', '( icProjective, icAffine )');
15891: T8087Exception', '(emInvalidOp,emDenormalizedOperand,emZeroDivide,emOverflow,emUnderflow,emPrecision';
15892: CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15893: Function Get8087ControlWord : Word');
15894: Function Get8087Infinity : T8087Infinity');
15895: Function Get8087Precision : T8087Precision');
15896: Function Get8087Rounding : T8087Rounding');
15897: Function Get8087StatusWord( ClearExceptions : Boolean ) : Word');
15898: Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity');
15899: Function Set8087Precision( const Precision : T8087Precision ) : T8087Precision');
15900: Function Set8087Rounding( const Rounding : T8087Rounding ) : T8087Rounding');
15901: Function Set8087ControlWord( const Control : Word ) : Word');
15902: Function ClearPending8087Exceptions : T8087Exceptions );
15903: Function GetPending8087Exceptions : T8087Exceptions );

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15904: Function GetMasked8087Exceptions : T8087Exceptions');
15905: Function SetMasked8087Exceptions(Exceptions: T8087Exceptions;ClearBefore:Boolean):T8087Exceptions');
15906: Function Mask8087Exceptions( Exceptions:T8087Exceptions) : T8087Exceptions');
15907: Function Unmask8087Exceptions(Exceptions:T8087Exceptions;ClearBefore : Boolean) : T8087Exceptions');
15908: end;
15909:
15910: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
15911: begin
15912:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)');
15913:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)');
15914:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
15915:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)');
15916:   Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)');
15917:   Procedure BoxSetItem( List : TWinControl; Index : Integer)');
15918:   Function BoxGetFirstSelection( List : TWinControl) : Integer)';
15919:   Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer) : Boolean)';
15920: end;
15921:
15922: procedure SIRegister_UrlMon(CL: TPSPascalCompiler);
15923: begin
15924:   //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString( 'URL Context');
15925:   //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString( 'AsyncCallee');
15926: CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6);
15927: type ULONG, 'Cardinal';
15928:   LPCWSTR, 'PChar');
15929: CL.AddTypeS('LPWSTR', 'PChar');
15930: LPSTR, 'PChar';
15931: TBindVerb', 'ULONG');
15932: TBindInfoF', 'ULONG');
15933: TBindF', 'ULONG');
15934: TBSCF', 'ULONG');
15935: TBindStatus', 'ULONG');
15936: TCIPStatus', 'ULONG');
15937: TBindString', 'ULONG');
15938: TPiFlags', 'ULONG');
15939: TOIBdgFlags', 'ULONG');
15940: TParseAction', 'ULONG');
15941: TPSUAction', 'ULONG');
15942: TQueryOption', 'ULONG');
15943: TPUAF', 'ULONG');
15944: TSZMFlags', 'ULONG');
15945: TUrlZone', 'ULONG');
15946: TUrlTemplate', 'ULONG');
15947: TZAFlags', 'ULONG');
15948: TUrlZoneReg', 'ULONG');
15949: 'URLMON_OPTION_USERAGENT','LongWord').SetUInt( $10000001);
15950: CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH','LongWord').SetUInt( $10000002);
15951: const 'URLMON_OPTION_URL_ENCODING','LongWord').SetUInt( $10000004);
15952: const 'URLMON_OPTION_USE_BINDSTRINGCREDS','LongWord').SetUInt( $10000008);
15953: const 'CF_NULL','LongInt').SetInt( 0);
15954: const 'CFSTR_MIME_NULL','LongInt').SetInt( 0);
15955: const 'CFSTR_MIME_TEXT','String').SetString( 'text/plain');
15956: const 'CFSTR_MIME_RICHTEXT','String').SetString( 'text/richtext');
15957: const 'CFSTR_MIME_X_BITMAP','String').SetString( 'image/x-bitmap');
15958: const 'CFSTR_MIME_POSTSCRIPT','String').SetString( 'application/postscript');
15959: const 'CFSTR_MIME_AIFF','String').SetString( 'audio/aiff');
15960: const 'CFSTR_MIME_BASICAUDIO','String').SetString( 'audio/basic');
15961: const 'CFSTR_MIME_WAV','String').SetString( 'audio/wav');
15962: const 'CFSTR_MIME_X_WAV','String').SetString( 'audio/x-wav');
15963: const 'CFSTR_MIME_GIF','String').SetString( 'image/gif');
15964: const 'CFSTR_MIME_PJPEG','String').SetString( 'image/pjpeg');
15965: const 'CFSTR_MIME_JPEG','String').SetString( 'image/jpeg');
15966: const 'CFSTR_MIME_TIFF','String').SetString( 'image/tiff');
15967: const 'CFSTR_MIME_X_PNG','String').SetString( 'image/x-png');
15968: const 'CFSTR_MIME_BMP','String').SetString( 'image/bmp');
15969: const 'CFSTR_MIME_X_ART','String').SetString( 'image/x-jg');
15970: const 'CFSTR_MIME_X_EMF','String').SetString( 'image/x-emf');
15971: const 'CFSTR_MIME_X_WMF','String').SetString( 'image/x-wmf');
15972: const 'CFSTR_MIME_AVI','String').SetString( 'video/avi');
15973: const 'CFSTR_MIME_MPEG','String').SetString( 'video/mpeg');
15974: const 'CFSTR_MIME_FRACTALS','String').SetString( 'application/fractals');
15975: const 'CFSTR_MIME_RAWDATA','String').SetString( 'application/octet-stream');
15976: const 'CFSTR_MIME_RAWDATASTREAM','String').SetString( 'application/octet-stream');
15977: const 'CFSTR_MIME_PDF','String').SetString( 'application/pdf');
15978: const 'CFSTR_MIME_X_AIFF','String').SetString( 'audio/x-aiff');
15979: const 'CFSTR_MIME_X_REALAUDIO','String').SetString( 'audio/x-pn-realaudio');
15980: const 'CFSTR_MIME_XBM','String').SetString( 'image/xbm');
15981: const 'CFSTR_MIME_QUICKTIME','String').SetString( 'video/quicktime');
15982: const 'CFSTR_MIME_X_MSVIDEO','String').SetString( 'video/x-msvideo');
15983: const 'CFSTR_MIME_X_SGI_MOVIE','String').SetString( 'video/x-sgi-movie');
15984: const 'CFSTR_MIME_HTML','String').SetString( 'text/html');
15985: const 'MK_S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);
15986: const 'S_ASYNCHRONOUS','LongWord').SetUInt( $000401E8);
15987: const 'E_PENDING','LongWord').SetUInt( $8000000A);
15988: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15989: SIRegister_IPersistMoniker(CL);
15990: SIRegister_IBindProtocol(CL);
15991: SIRegister_IBinding(CL);

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15992: const 'BINDVERB_GET', 'LongWord').SetUInt( $00000000);
15993: const 'BINDVERB_POST', 'LongWord').SetUInt( $00000001);
15994: const 'BINDVERB_PUT', 'LongWord').SetUInt( $00000002);
15995: const 'BINDVERB_CUSTOM', 'LongWord').SetUInt( $00000003);
15996: const 'BINDINFO_URLENCODESTGMEDDATA', 'LongWord').SetUInt( $00000001);
15997: const 'BINDINFO_URLENCODEDEXTRAINFO', 'LongWord').SetUInt( $00000002);
15998: const 'BINDF_ASYNCNCHRONOUS', 'LongWord').SetUInt( $00000001);
15999: const 'BINDF_ASYNCNSTORAGE', 'LongWord').SetUInt( $00000002);
16000: const 'BINDF_NOPROGRESSIVERENDERING', 'LongWord').SetUInt( $00000004);
16001: const 'BINDF_OFFLINEOPERATION', 'LongWord').SetUInt( $00000008);
16002: const 'BINDF_GETNEWESTVERSION', 'LongWord').SetUInt( $00000010);
16003: const 'BINDF_NOWRITECACHE', 'LongWord').SetUInt( $00000020);
16004: const 'BINDF_NEEDFILE', 'LongWord').SetUInt( $00000040);
16005: const 'BINDF_PULLDATA', 'LongWord').SetUInt( $00000080);
16006: const 'BINDF_IGNORESECURITYPROBLEM', 'LongWord').SetUInt( $00000100);
16007: const 'BINDF_RESYNCHRONIZE', 'LongWord').SetUInt( $00000200);
16008: const 'BINDF_HYPERLINK', 'LongWord').SetUInt( $00000400);
16009: const 'BINDF_NO_UI', 'LongWord').SetUInt( $00000800);
16010: const 'BINDF_SILENTOPERATION', 'LongWord').SetUInt( $00001000);
16011: const 'BINDF_PRAGMA_NO_CACHE', 'LongWord').SetUInt( $00002000);
16012: const 'BINDF_FREE_THREADS', 'LongWord').SetUInt( $00010000);
16013: const 'BINDF_DIRECT_READ', 'LongWord').SetUInt( $00020000);
16014: const 'BINDF_FORMS_SUBMIT', 'LongWord').SetUInt( $00040000);
16015: const 'BINDF_GETFROMCACHE_IF_NET_FAIL', 'LongWord').SetUInt( $00080000);
16016: //const 'BINDF_DONTUSECACHE', '').SetString( BINDF_GETNEWESTVERSION);
16017: //const 'BINDF_DONTPUTINCACHE', '').SetString( BINDF_NOWRITECACHE);
16018: //const 'BINDF_NOCOPYDATA', '').SetString( BINDF_PULLDATA);
16019: const 'BSCF_FIRSTDATANOTIFICATION', 'LongWord').SetUInt( $00000001);
16020: const 'BSCF_INTERMEDIATEDATANOTIFICATION', 'LongWord').SetUInt( $00000002);
16021: const 'BSCF_LASTDATANOTIFICATION', 'LongWord').SetUInt( $00000004);
16022: const 'BSCF_DATAFULLYAVAILABLE', 'LongWord').SetUInt( $00000008);
16023: const 'BSCF_AVAILABLEDATASIZEUNKNOWN', 'LongWord').SetUInt( $00000010);
16024: const 'BINDSTATUS_FINDINGRESOURCE', 'LongInt').SetInt( 1);
16025: const 'BINDSTATUS_CONNECTING', 'LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
16026: const 'BINDSTATUS_REDIRECTING', 'LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
16027: const 'BINDSTATUS_BEGINDOWNLOADDATA', 'LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
16028: const 'BINDSTATUS_DOWNLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADDATA + 1);
16029: const 'BINDSTATUS_ENDDOWNLOADDATA', 'LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
16030: const 'BINDSTATUS_BEGINDOWNLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADDATA + 1);
16031: const 'BINDSTATUS_INSTALLINGCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADCOMPONENTS + 1);
16032: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS', 'LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
16033: const 'BINDSTATUS_USINGCACHEDCOPY', 'LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
16034: const 'BINDSTATUS_SENDINGREQUEST', 'LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
16035: const 'BINDSTATUS_CLASSIDAVAILABLE', 'LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
16036: const 'BINDSTATUS_MIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
16037: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
16038: const 'BINDSTATUS_BEGINSYNCOPERATION', 'LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
16039: const 'BINDSTATUS_ENDSYNCOPERATION', 'LongInt').SetInt( BINDSTATUS_BEGINSYNCOPERATION + 1);
16040: const 'BINDSTATUS_BEGINUPLOADDATA', 'LongInt').SetInt( BINDSTATUS_ENDSYNCOPERATION + 1);
16041: const 'BINDSTATUS_UPLOADINGDATA', 'LongInt').SetInt( BINDSTATUS_BEGINUPLOADDATA + 1);
16042: const 'BINDSTATUS_ENDUPLOADDATA', 'LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
16043: const 'BINDSTATUS_PROTOCOLCLASSID', 'LongInt').SetInt( BINDSTATUS_ENDUPLOADDATA + 1);
16044: const 'BINDSTATUS_ENCODING', 'LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
16045: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_ENCODING + 1);
16046: const 'BINDSTATUS_CLASSINSTALLELLLOCATION', 'LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
16047: const 'BINDSTATUS_DECODING', 'LongInt').SetInt( BINDSTATUS_CLASSINSTALLELLLOCATION + 1);
16048: const 'BINDSTATUS_LOADINGMIMEHANDLER', 'LongInt').SetInt( BINDSTATUS_DECODING + 1);
16049: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH', 'LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
16050: const 'BINDSTATUS_FILTERREPORTMIMETYPE', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
16051: const 'BINDSTATUS_CLSIDCANINSTANTIATE', 'LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
16052: const 'BINDSTATUS_IUNKNOWNAVAILABLE', 'LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
16053: const 'BINDSTATUS_DIRECTBIND', 'LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
16054: const 'BINDSTATUS_RAWMIMETYPE', 'LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
16055: const 'BINDSTATUS_PROXYDETECTING', 'LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
16056: const 'BINDSTATUS_ACCEPTRANGES', 'LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
16057: const 'BINDSTATUS_COOKIE_SENT', 'LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
16058: const 'BINDSTATUS_COMPACT_POLICY_RECEIVED', 'LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
16059: const 'BINDSTATUS_COOKIE_SUPPRESSED', 'LongInt').SetInt( BINDSTATUS_COMPACT_POLICY_RECEIVED + 1);
16060: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN', 'LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
16061: const 'BINDSTATUS_COOKIE_STATE_ACCEPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
16062: const 'BINDSTATUS_COOKIE_STATE_REJECT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
16063: const 'BINDSTATUS_COOKIE_STATE_PROMPT', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
16064: const 'BINDSTATUS_COOKIE_STATE_LEASH', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
16065: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
16066: const 'BINDSTATUS_POLICY_HREF', 'LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
16067: const 'BINDSTATUS_P3P_HEADER', 'LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
16068: const 'BINDSTATUS_SESSION_COOKIE_RECEIVED', 'LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
16069: const 'BINDSTATUS_PERSISTENT_COOKIE_RECEIVED', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIE_RECEIVED + 1);
16070: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED', 'LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE_RECEIVED + 1);
16071: const 'BINDSTATUS_CACHECONTROL', 'LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
16072: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME', 'LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
16073: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH', 'LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
16074: const 'BINDSTATUS_PUBLISHERAVAILABLE', 'LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
16075: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE', 'LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
16076: // PBindInfo', '^TBindInfo // will not work');
16077: { _tagBINDINFO, 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
16078: + 'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
16079: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
16080: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'

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16081: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
16082: TBindInfo', '_tagBINDINFO');
16083: BINDINFO', '_tagBINDINFO');
16084: _REMSECURITY_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes';
16085: +'criptor : DWORD; bInheritHandle : BOOL; end');
16086: TRemSecurityAttributes', '_REMSECURITY_ATTRIBUTES');
16087: REMSECURITY_ATTRIBUTES', '_REMSECURITY_ATTRIBUTES');
16088: //PREmBindInfo', '^TRemBindInfo // will not work');
16089: {_tagRemBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; '
16090: +'grfBindInfo : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16091: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16092: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknow'
16093: +'n; dwReserved : DWORD; end');
16094: TRemBindInfo', '_tagRemBINDINFO');
16095: RemBINDINFO', '_tagRemBINDINFO');
16096: //PREmFormatEtc', '^TRemFormatEtc // will not work');
16097: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16098: TRemFormatEtc', 'tagRemFORMATETC');
16099: RemFORMATETC', 'tagRemFORMATETC');
16100: SIRegister_IBindStatusCallback(CL);
16101: SIRegister_IAuthenticate(CL);
16102: SIRegister_IHttpNegotiate(CL);
16103: SIRegister_IWindowForBindingUI(CL);
16104: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16105: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16106: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16107: const 'CIP_OLDER_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16108: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_OLDER_VERSION_EXISTS + 1);
16109: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16110: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT',LongInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16111: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1);
16112: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16113: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16114: SIRegister_ICodeInstall(CL);
16115: SIRegister_IWInetInfo(CL);
16116: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16117: SIRegister_IHttpSecurity(CL);
16118: SIRegister_IWInetHttpInfo(CL);
16119: SIRegister_IBindHost(CL);
16120: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16121: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16122: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16123: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16124: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult';
16125: Function URLDownloadToFile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback ) : HResult';
16126: Function URLDownloadToCacheFile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback ) : HResult';
16127: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback):HResult');
16128: Function HlinkGoBack( unk : IUnknown ) : HResult';
16129: Function HlinkGoForward( unk : IUnknown ) : HResult';
16130: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult';
16131: // Function HlinkNavigateMoniker( Unk : IUnknown; mkTarget : IMoniker ) : HResult';
16132: SIRegister_IInternet(CL);
16133: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16134: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16135: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16136: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16137: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16138: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16139: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16140: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16141: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16142: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16143: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16144: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);
16145: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16146: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16147: //POLEStrArray', '^TOLESTRArray // will not work');
16148: SIRegister_IInternetBindInfo(CL);
16149: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16150: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16151: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);
16152: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008);
16153: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010);
16154: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020);
16155: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040);
16156: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080);
16157: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16158: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200);
16159: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000);
16160: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP);
16161: //PProtocolData', '^TProtocolData // will not work');
16162: _tagPROTOCOLDATA', 'record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16163: TProtocolData', '_tagPROTOCOLDATA');
16164: PROTOCOLDATA', '_tagPROTOCOLDATA');
16165: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IIInternetProtocolSink, 'IIInternetProtocolSink');
16166: SIRegister_IInternetProtocolRoot(CL);

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16167:     SIRegister_IInternetProtocol(CL);
16168:     SIRegister_IInternetProtocolSink(CL);
16169:     const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16170:     SIRegister_IInternetSession(CL);
16171:     SIRegister_IInternetThreadSwitch(CL);
16172:     SIRegister_IInternetPriority(CL);
16173:     const 'PARSE_CANONICALIZE','LongInt').SetInt( 1);
16174:     const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1);
16175:     const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1);
16176:     const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1);
16177:     const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16178:     const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1);
16179:     const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1);
16180:     const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1);
16181:     const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1);
16182:     const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16183:     const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16184:     const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16185:     const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16186:     const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16187:     const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16188:     const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16189:     const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16190:     const 'PSU_DEFAULT','LongInt').SetInt( 1);
16191:     const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16192:     const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16193:     const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16194:     const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16195:     const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16196:     const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16197:     const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16198:     const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16199:     const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16200:     const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16201:     const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16202:     const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16203:     const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16204:     const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16205:     const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16206:     SIRegister_IInternetProtocolInfo(CL);
16207:     IOInet , 'IInternet');
16208:     IOInetBindInfo , 'IInternetBindInfo');
16209:     IOInetProtocolRoot , 'IInternetProtocolRoot');
16210:     IOInetProtocol , 'IInternetProtocol');
16211:     IOInetProtocolSink , 'IInternetProtocolSink');
16212:     IOInetProtocolInfo , 'IInternetProtocolInfo');
16213:     IOInetSession , 'IInternetSession');
16214:     IOInetPriority , 'IInternetPriority');
16215:     IOInetThreadSwitch , 'IInternetThreadSwitch');
16216:     Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16217:     Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16218:     Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult');
16219:     Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags:DWORD;dwReserved:DWORD):HResult';
16220:     Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16221:     Function CoInternetGetSession(dwSessionMode:DWORD; var pIInternetSession: IInternetSes;dwReserved:DWORD):HResult;
16222:     Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16223:     Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16224:     Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16225:     Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult');
16226:     Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult');
16227:     Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16228:     Function OInetGetSession(dwSessionMode:DWORD; var pIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16229:     //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16230:     //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16231:     // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult ( $800C0011 ) );
16232:     // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult ( $800C0012 ) );
16233:     //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult ( $800C0011 ) );
16234:     //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult ( $800C0013 ) );
16235:     //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult ( $800C0014 ) );
16236:     const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001);
16237:     SIRegister_IInternetSecurityMgrSite(CL);
16238:     const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001);
16239:     const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002);
16240:     const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16241:     const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16242:     const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16243:     const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16244:     const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16245:     const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16246:     const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);

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16247: const 'PUAF_WARN_IF_DENIED', 'LongWord').SetUInt( $00000004);
16248: const 'PUAF_FORCEUI_FOREGROUND', 'LongWord').SetUInt( $00000008);
16249: const 'PUAF_CHECK_TIFS', 'LongWord').SetUInt( $00000010);
16250: const 'PUAF_DONTCHECKBOXINDIALOG', 'LongWord').SetUInt( $00000020);
16251: const 'PUAF_TRUSTED', 'LongWord').SetUInt( $00000040);
16252: const 'PUAF_ACCEPT_WILDCARD_SCHEME', 'LongWord').SetUInt( $00000080);
16253: const 'PUAF_ENFORCERESTRICTED', 'LongWord').SetUInt( $00000100);
16254: const 'PUAF_NOSAVEDFILECHECK', 'LongWord').SetUInt( $00000200);
16255: const 'PUAF_REQUIRESAVEDFILECHECK', 'LongWord').SetUInt( $00000400);
16256: const 'PUAF_LMZ_UNLOCKED', 'LongWord').SetUInt( $00010000);
16257: const 'PUAF_LMZ_LOCKED', 'LongWord').SetUInt( $00020000);
16258: const 'PUAF_DEFAULTZONEPOL', 'LongWord').SetUInt( $00040000);
16259: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED', 'LongWord').SetUInt( $00080000);
16260: const 'PUAF_NOUIIFLOCKED', 'LongWord').SetUInt( $00100000);
16261: const 'PUAFOUT_DEFAULT', 'LongWord').SetUInt( $0);
16262: const 'PUAFOUT_ISLOCKZONEPOLICY', 'LongWord').SetUInt( $1);
16263: const 'SZM_CREATE', 'LongWord').SetUInt( $00000000);
16264: const 'SZM_DELETE', 'LongWord').SetUInt( $00000001);
16265: SIRegister_IInternetSecurityManager(CL);
16266: SIRegister_IInternetHostSecurityManager(CL);
16267: SIRegister_IInternetSecurityManagerEx(CL);
16268: const 'URLACTION_MIN', 'LongWord').SetUInt( $00001000);
16269: const 'URLACTION_DOWNLOAD_MIN', 'LongWord').SetUInt( $00001000);
16270: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX', 'LongWord').SetUInt( $00001001);
16271: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX', 'LongWord').SetUInt( $00001004);
16272: const 'URLACTION_DOWNLOAD_CURR_MAX', 'LongWord').SetUInt( $00001004);
16273: const 'URLACTION_DOWNLOAD_MAX', 'LongWord').SetUInt( $000011FF);
16274: const 'URLACTION_ACTIVEX_MIN', 'LongWord').SetUInt( $00001200);
16275: const 'URLACTION_ACTIVEX_RUN', 'LongWord').SetUInt( $00001200);
16276: const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY', 'LongWord').SetUInt( $00001201);
16277: const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY', 'LongWord').SetUInt( $00001202);
16278: const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY', 'LongWord').SetUInt( $00001203);
16279: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY', 'LongWord').SetUInt( $00001401);
16280: const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY', 'LongWord').SetUInt( $00001204);
16281: const 'URLACTION_ACTIVEX_TREATASUNTRUSTED', 'LongWord').SetUInt( $00001205);
16282: const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT', 'LongWord').SetUInt( $00001206);
16283: const 'URLACTION_ACTIVEX_CURR_MAX', 'LongWord').SetUInt( $00001206);
16284: const 'URLACTION_ACTIVEX_MAX', 'LongWord').SetUInt( $000013FF);
16285: const 'URLACTION_SCRIPT_MIN', 'LongWord').SetUInt( $00001400);
16286: const 'URLACTION_SCRIPT_RUN', 'LongWord').SetUInt( $00001400);
16287: const 'URLACTION_SCRIPT_JAVA_USE', 'LongWord').SetUInt( $00001402);
16288: const 'URLACTION_SCRIPT_SAFE_ACTIVEX', 'LongWord').SetUInt( $00001405);
16289: const 'URLACTION_SCRIPT_CURR_MAX', 'LongWord').SetUInt( $00001405);
16290: const 'URLACTION_SCRIPT_MAX', 'LongWord').SetUInt( $000015FF);
16291: const 'URLACTION_HTML_MIN', 'LongWord').SetUInt( $00001600);
16292: const 'URLACTION_HTML_SUBMIT_FORMS', 'LongWord').SetUInt( $00001601);
16293: const 'URLACTION_HTML_SUBMIT_FORMS_FROM', 'LongWord').SetUInt( $00001602);
16294: const 'URLACTION_HTML_SUBMIT_FORMS_TO', 'LongWord').SetUInt( $00001603);
16295: const 'URLACTION_HTML_FONT_DOWNLOAD', 'LongWord').SetUInt( $00001604);
16296: const 'URLACTION_HTML_JAVA_RUN', 'LongWord').SetUInt( $00001605);
16297: const 'URLACTION_HTML_CURR_MAX', 'LongWord').SetUInt( $00001605);
16298: const 'URLACTION_HTML_MAX', 'LongWord').SetUInt( $000017FF);
16299: const 'URLACTION_SHELL_MIN', 'LongWord').SetUInt( $00001800);
16300: const 'URLACTION_SHELL_INSTALL_DITITEMS', 'LongWord').SetUInt( $00001800);
16301: const 'URLACTION_SHELL_MOVE_OR_COPY', 'LongWord').SetUInt( $00001802);
16302: const 'URLACTION_SHELL_FILE_DOWNLOAD', 'LongWord').SetUInt( $00001803);
16303: const 'URLACTION_SHELL_VERB', 'LongWord').SetUInt( $00001804);
16304: const 'URLACTION_SHELL_WEBVIEW_VERB', 'LongWord').SetUInt( $00001805);
16305: const 'URLACTION_SHELL_SHELLEXECUTE', 'LongWord').SetUInt( $00001806);
16306: const 'URLACTION_SHELL_EXECUTE_HIGHRISK', 'LongWord').SetUInt( $00001806);
16307: const 'URLACTION_SHELL_EXECUTE_MODRISK', 'LongWord').SetUInt( $00001807);
16308: const 'URLACTION_SHELL_EXECUTE_LOWRISK', 'LongWord').SetUInt( $00001808);
16309: const 'URLACTION_SHELL_POPUPMGR', 'LongWord').SetUInt( $00001809);
16310: const 'URLACTION_SHELL_CURR_MAX', 'LongWord').SetUInt( $00001809);
16311: const 'URLACTION_SHELL_MAX', 'LongWord').SetUInt( $000019ff);
16312: const 'URLACTION_NETWORK_MIN', 'LongWord').SetUInt( $00001A00);
16313: const 'URLACTION_CREDENTIALS_USE', 'LongWord').SetUInt( $00001A00);
16314: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK', 'LongWord').SetUInt( $00000000);
16315: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER', 'LongWord').SetUInt( $00010000);
16316: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT', 'LongWord').SetUInt( $00020000);
16317: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY', 'LongWord').SetUInt( $00030000);
16318: const 'URLACTION_AUTHENTICATE_CLIENT', 'LongWord').SetUInt( $00001A01);
16319: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK', 'LongWord').SetUInt( $00000000);
16320: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE', 'LongWord').SetUInt( $00010000);
16321: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY', 'LongWord').SetUInt( $00030000);
16322: const 'URLACTION_NETWORK_CURR_MAX', 'LongWord').SetUInt( $00001A01);
16323: const 'URLACTION_NETWORK_MAX', 'LongWord').SetUInt( $00001BFF);
16324: const 'URLACTION_JAVA_MIN', 'LongWord').SetUInt( $00001C00);
16325: const 'URLACTION_JAVA_PERMISSIONS', 'LongWord').SetUInt( $00001C00);
16326: const 'URLPOLICY_JAVA_PROHIBIT', 'LongWord').SetUInt( $00000000);
16327: const 'URLPOLICY_JAVA_HIGH', 'LongWord').SetUInt( $00010000);
16328: const 'URLPOLICY_JAVA_MEDIUM', 'LongWord').SetUInt( $00020000);
16329: const 'URLPOLICY_JAVA_LOW', 'LongWord').SetUInt( $00030000);
16330: const 'URLPOLICY_JAVA_CUSTOM', 'LongWord').SetUInt( $00800000);
16331: const 'URLACTION_JAVA_CURR_MAX', 'LongWord').SetUInt( $00001C00);
16332: const 'URLACTION_JAVA_MAX', 'LongWord').SetUInt( $00001CFF);
16333: const 'URLACTION_INFODELIVERY_MIN', 'LongWord').SetUInt( $00001D00);
16334: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS', 'LongWord').SetUInt( $00001D00);
16335: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS', 'LongWord').SetUInt( $00001D01);

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16336: const 'URLACTION_INFODELIVERY_NO_Removing_CHANNELS','LongWord').SetUInt( $00001D02);
16337: const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D03);
16338: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D04);
16339: const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS','LongWord').SetUInt( $00001D05);
16340: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING','LongWord').SetUInt( $00001D06);
16341: const 'URLACTION_INFODELIVERY_CURR_MAX','LongWord').SetUInt( $00001D06);
16342: const 'URLACTION_INFODELIVERY_MAX','LongWord').SetUInt( $00001Dff);
16343: const 'URLACTION_CHANNEL_SOFTDIST_MIN','LongWord').SetUInt( $00001E00);
16344: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS','LongWord').SetUInt( $00001E05);
16345: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT','LongWord').SetUInt( $00010000);
16346: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE','LongWord').SetUInt( $00020000);
16347: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL','LongWord').SetUInt( $00030000);
16348: const 'URLACTION_CHANNEL_SOFTDIST_MAX','LongWord').SetUInt( $0001EFF);
16349: const 'URLACTION_BEHAVIOR_MIN','LongWord').SetUInt( $00002000);
16350: const 'URLACTION_BEHAVIOR_RUN','LongWord').SetUInt( $00002000);
16351: const 'URLPOLICY_BEHAVIOR_CHECK_LIST','LongWord').SetUInt( $00010000);
16352: const 'URLACTION_FEATURE_MIN','LongWord').SetUInt( $00002100);
16353: const 'URLACTION_FEATURE_MIME_SNIFFING','LongWord').SetUInt( $00002100);
16354: const 'URLACTION_FEATURE_ZONE_ELEVATION','LongWord').SetUInt( $00002101);
16355: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS','LongWord').SetUInt( $00002102);
16356: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN','LongWord').SetUInt( $00002200);
16357: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI','LongWord').SetUInt( $00002200);
16358: const 'URLACTION_AUTOMATIC_ACTIVEX_UI','LongWord').SetUInt( $00002201);
16359: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS','LongWord').SetUInt( $00002300);
16360: const 'URLPOLICY_ALLOW','LongWord').SetUInt( $00);
16361: const 'URLPOLICY_QUERY','LongWord').SetUInt( $01);
16362: const 'URLPOLICY_DISALLOW','LongWord').SetUInt( $03);
16363: const 'URLPOLICY_NOTIFY_ON_ALLOW','LongWord').SetUInt( $10);
16364: const 'URLPOLICY_NOTIFY_ON_DISALLOW','LongWord').SetUInt( $20);
16365: const 'URLPOLICY_LOG_ON_ALLOW','LongWord').SetUInt( $40);
16366: const 'URLPOLICY_LOG_ON_DISALLOW','LongWord').SetUInt( $80);
16367: const 'URLPOLICY_MASK_PERMISSIONS','LongWord').SetUInt( $0f);
16368: Function GetUrlPolicyPermissions( dw : DWORD ) : DWORD );
16369: Function SetUrlPolicyPermissions( dw, dw2 : DWORD ) : DWORD );
16370: const 'URLZONE_PREDEFINED_MIN','LongInt').SetInt( 0);
16371: const 'URLZONE_LOCAL_MACHINE','LongInt').SetInt( 0);
16372: const 'URLZONE_INTRANET','LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16373: const 'URLZONE_TRUSTED','LongInt').SetInt( URLZONE_INTRANET + 1);
16374: const 'URLZONE_INTERNET','LongInt').SetInt( URLZONE_TRUSTED + 1);
16375: const 'URLZONE_UNTRUSTED','LongInt').SetInt( URLZONE_INTERNET + 1);
16376: const 'URLZONE_PREDEFINED_MAX','LongInt').SetInt( 999);
16377: const 'URLZONE_USER_MIN','LongInt').SetInt( 1000);
16378: const 'URLZONE_USER_MAX','LongInt').SetInt( 10000);
16379: const 'URLTEMPLATE_CUSTOM','LongWord').SetUInt( $00000000);
16380: const 'URLTEMPLATE_PREDEFINED_MIN','LongWord').SetUInt( $00010000);
16381: const 'URLTEMPLATE_LOW','LongWord').SetUInt( $00010000);
16382: const 'URLTEMPLATE_MEDIUM','LongWord').SetUInt( $00011000);
16383: const 'URLTEMPLATE_HIGH','LongWord').SetUInt( $00012000);
16384: const 'URLTEMPLATE_PREDEFINED_MAX','LongWord').SetUInt( $00020000);
16385: const 'MAX_ZONE_PATH','LongInt').SetInt( 260);
16386: const 'MAX_ZONE_DESCRIPTION','LongInt').SetInt( 200);
16387: const 'ZAFLAGS_CUSTOM_EDIT','LongWord').SetUInt( $00000001);
16388: const 'ZAFLAGS_ADD_SITES','LongWord').SetUInt( $00000002);
16389: const 'ZAFLAGS_REQUIRE_VERIFICATION','LongWord').SetUInt( $00000004);
16390: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE','LongWord').SetUInt( $00000008);
16391: const 'ZAFLAGS_INCLUDE_INTRANET_SITES','LongWord').SetUInt( $00000010);
16392: const 'ZAFLAGS_NO_UI','LongWord').SetUInt( $00000020);
16393: const 'ZAFLAGS_SUPPORTS_VERIFICATION','LongWord').SetUInt( $00000040);
16394: const 'ZAFLAGS_UNC_AS_INTRANET','LongWord').SetUInt( $00000080);
16395: const 'ZAFLAGS_USE_LOCKED_ZONES','LongWord').SetUInt( $00010000);
16396: //PZoneAttributes', '^TZoneAttributes // will not work');
16397: _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');
16398: { _ZONEATTRIBUTES = packed record
16399:   cbSize: ULONG;
16400:   szDisplayName: array [0..260 - 1] of WideChar;
16401:   szDescription: array [0..200 - 1] of WideChar;
16402:   szIconPath: array [0..260 - 1] of WideChar;
16403:   dwTemplateMinLevel: DWORD;
16404:   dwTemplateRecommended: DWORD;
16405:   dwTemplateCurrentLevel: DWORD;
16406:   dwFlags: DWORD;
16407: end; }
16408: TZoneAttributes', '_ZONEATTRIBUTES');
16409: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16410: const 'URLZONEREG_DEFAULT','LongInt').SetInt( 0);
16411: const 'URLZONEREG_HKLM','LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16412: const 'URLZONEREG_HKCU','LongInt').SetInt( URLZONEREG_HKLM + 1);
16413: SIRegister_IInternetZoneManager(CL);
16414: SIRegister_IInternetZoneManagerEx(CL);
16415: const 'SOFTDIST_FLAG_USAGE_EMAIL','LongWord').SetUInt( $00000001);
16416: const 'SOFTDIST_FLAG_USAGE_PRECACHE','LongWord').SetUInt( $00000002);
16417: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL','LongWord').SetUInt( $00000004);
16418: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16419: const 'SOFTDIST_ADSTATE_NONE','LongWord').SetUInt( $00000000);
16420: const 'SOFTDIST_ADSTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16421: const 'SOFTDIST_ADSTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16422: const 'SOFTDIST_ADSTATE_INSTALLED','LongWord').SetUInt( $00000003);

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16423: //PCodeBaseHold', '^TCodeBaseHold // will not work');
16424: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16425: +'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionLS : DWORD; dwStyle : DWORD; end');
16426: TCodeBaseHold', '_tagCODEBASEHOLD');
16427: CODEBASEHOLD', '_tagCODEBASEHOLD');
16428: //PSoftDistInfo', '^TSoftDistInfo // will not work');
16429: _tagSOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd'
16430: +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI'
16431: +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16432: +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve'
16433: +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16434: TSoftDistInfo', '_tagSOFTDISTINFO');
16435: SOFTDISTINFO', '_tagSOFTDISTINFO');
16436: SIRegister_ISoftDistExt(CL);
16437: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo) : HResult');
16438: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : WORD) : HResult');
16439: SIRegister_IDataFilter(CL);
16440: // PProtocolFilterData', '^TProtocolFilterData // will not work');
16441: _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : '
16442: +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16443: +'terFlags : DWORD; end');
16444: TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16445: PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16446: //PDataInfo', '^TDataInfo // will not work');
16447: _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16448: +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16449: TDataInfo', '_tagDATAINFO');
16450: DATAINFO', '_tagDATAINFO');
16451: SIRegister_IEncodingFilterFactory(CL);
16452: Function IsLoggingEnabled( pszUrl : PChar) : BOOL';
16453: //Function IsLoggingEnabledA( pszUrl : PAnsiChar) : BOOL';
16454: //Function IsLoggingEnabledW( pszUrl : PWideChar) : BOOL';
16455: //PHitLoggingInfo', '^THitLoggingInfo // will not work');
16456: _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16457: +'rlName : LPSTR; StartTime : TSystemTime; EndTime: TSystemTime; lpszExtendedInfo : LPSTR; end');
16458: THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16459: HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16460: Function WriteHitLogging( const Logginginfo : THitLoggingInfo) : BOOL';
16461: end;
16462:
16463: procedure SIRegister_DFFUtils(CL: TPSPascalCompiler);
16464: begin
16465: Procedure reformatMemo( const m : TCustomMemo)');
16466: Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer)');
16467: Procedure MoveToTop( memo : TMemo)');
16468: Procedure ScrollToTop( memo : TMemo)');
16469: Function LineNumberClicked( memo : TMemo) : integer');
16470: Function MemoClickedLine( memo : TMemo) : integer');
16471: Function ClickedMemoLine( memo : TMemo) : integer');
16472: Function MemoLineClicked( memo : TMemo) : integer');
16473: Function LinePositionClicked( Memo : TMemo) : integer');
16474: Function ClickedMemoPosition( memo : TMemo) : integer');
16475: Function MemoPositionClicked( memo : TMemo) : integer');
16476: Procedure AdjustGridSize( grid : TDrawGrid)');
16477: Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer)');
16478: Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer)');
16479: Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer)');
16480: Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascending : boolean)');
16481: Procedure sortstrDown( var s : string)');
16482: Procedure sortstrUp( var s : string)');
16483: Procedure rotatestrleft( var s : string)');
16484: Function dffstrtofloatdef( s : string; default : extended) : extended');
16485: Function deblank( s : string) : string');
16486: Function IntToBinaryString( const n : integer; MinLength : integer) : string');
16487: Procedure FreeAndClearListBox( C : TListBox)');
16488: Procedure FreeAndClearMemo( C : TMemo)');
16489: Procedure FreeAndClearStringList( C : TStringList)');
16490: Function dffgetfilesize( f : TSearchrec) : int64');
16491: end;
16492:
16493: procedure SIRegister_MathsLib(CL: TPSPascalCompiler);
16494: begin
16495: CL.AddTypeS('intset', 'set of byte');
16496: TPoint64', 'record x : int64; y : int64; end');
16497: Function GetNextPandigital( size : integer; var Digits : array of integer) : boolean');
16498: Function IsPolygonal( T : int64; var rank : array of integer) : boolean');
16499: Function GeneratePentagon( n : integer) : integer');
16500: Function IsPentagon( p : integer) : boolean');
16501: Function isSquare( const N : int64) : boolean');
16502: Function isCube( const N : int64) : boolean');
16503: Function isPalindrome( const n : int64) : boolean');
16504: Function isPalindromel( const n : int64; var len : integer) : boolean');
16505: Function GetEulerPhi( n : int64) : int64');
16506: Function dffIntPower( a, b : int64) : int64;');
16507: Function IntPowerl( a : extended; b : int64) : extended;');
16508: Function gcd2( a, b : int64) : int64');
16509: Function GCDMany( A : array of integer) : integer');
16510: Function LCMMany( A : array of integer) : integer');

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16511: Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16512: Function dffFactorial( n : int64 ) : int64';
16513: Function digitcount( n : int64 ) : integer';
16514: Function nextpermute( var a : array of integer ) : boolean';
16515: Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string';
16516: Function convertStringToDecimal( s : string; var n : extended ) : Boolean';
16517: Function InttoBinaryStr( nn : integer ) : string';
16518: Function StrtoAngle( const s : string; var angle : extended ) : boolean';
16519: Function AngleToStr( angle : extended ) : string';
16520: Function deg2rad( deg : extended ) : extended)';
16521: Function rad2deg( rad : extended ) : extended)';
16522: Function GetLongToMercProjection( const long : extended ) : extended)';
16523: Function GetLatToMercProjection( const Lat : Extended ) : Extended)';
16524: Function GetMercProjectionToLong( const ProjLong : extended ) : extended)';
16525: Function GetMercProjectionToLat( const ProjLat : extended ) : extended)';
16526: SIRegister_TPrimes(CL);
16527: //RIRegister_TPrimes(CL);
16528: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16529: CL.AddConstantN('minmark','LongInt').SetInt( 180));
16530: Function Random64( const N : Int64 ) : Int64;';
16531: Procedure Randomize64)';
16532: Function Random641 : extended;');
16533: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)//DFFUtils
16534: end;
16535:
16536: procedure SIRegister_UGeometry(CL: TPSPPascalCompiler);
16537: begin
16538:   TrealPoint', 'record x : extended; y : extended; end)';
16539:   Tline', 'record p1 : TPoint; p2 : TPoint; end)';
16540:   TRealLine', 'record p1 : TRealPoint; p2 : TRealPoint; end)';
16541:   TCircle', 'record cx : integer; cy : integer; r : integer; end)';
16542:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end)';
16543:   PPResult', '( PPOutside, PPInside, PPVertex, PPEdge, PPError ))';
16544:   Function realpoint( x, y : extended ) : TRealPoint)';
16545:   Function dist( const p1, p2 : TrealPoint ) : extended)';
16546:   Function intdist( const p1, p2 : TPoint ) : integer)';
16547:   Function dffline( const p1, p2 : TPoint ) : Tline)';
16548:   Function Linel( const p1, p2 : TRealPoint ) : TRealline)';
16549:   Function dffCircle( const cx, cy, R : integer ) : TCircle)';
16550:   Function Circle( const cx, cy, R : extended ) : TRealCircle)';
16551:   Function GetTheta( const L : TLine ) : extended)';
16552:   Function GetTheta1( const p1, p2 : TPoint ) : extended)';
16553:   Function GetTheta2( const p1, p2 : TRealPoint ) : extended)';
16554:   Procedure Extendline( var L : TLine; dist : integer )';
16555:   Procedure Extendline1( var L : TRealLine; dist : extended )';
16556:   Function Linesintersect( line1, line2 : TLine ) : boolean)';
16557:   Function ExtendedLinesIntersect( Line1,Line2:TLine; const extendlines:bool;var IP:TPoint):bool;
16558:   Function ExtendedLinesIntersect1(const Line1,Line2:TLine;const extendlines:bool;var IP:TRealPoint):bool;
16559:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean)';
16560:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine)';
16561:   Function PerpDistance( L : TLine; P : TPoint ) : Integer)';
16562:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine)';
16563:   Function AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16564:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult)';
16565:   Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var Clockwise:bool):integer;
16566:   Procedure InflatePolygon(const points:array of Tpoint; var points2:array of TPoint;var area:integer;
16567:     const screenCoordinates : boolean; const inflateby : integer)';
16568:   Function PolyBuiltClockwise(const points:array of TPoint;const screencoordinates:boolean):bool;
16569:   Function DegtoRad( d : extended ) : extended)';
16570:   Function RadtoDeg( r : extended ) : extended)';
16571:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint )';
16572:   Procedure RotateRightEndBy( var L : TLine; alpha : extended )';
16573:   Procedure RotateRightEndTo( var L : TLine; alpha : extended )';
16574:   Procedure RotateRightEndTol( var p1, p2 : Trealpoint; alpha : extended )';
16575:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint ) : boolean)';
16576:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint ) : boolean)';
16577:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean)';
16578:   Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,Tl1,Tl2:TLine):Bool;
16579: end;
16580:
16581:
16582: procedure SIRegister_UAstronomy(CL: TPSPPascalCompiler);
16583: begin
16584:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat ))';
16585:   TDTType', '( ttLocal, ttUT, ttGST, ttLST ))';
16586:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end)';
16587:   TSunrec', 'record TrueEclLon:extended;
16588:     AppEclLon:extended;AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
16589:     TrueAzAl:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRPoint;SunMeanAnomaly:extended;end;
16590:     TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
16591:       +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'
16592:       +' arth : extended; Phase : extended; end)';
16593:     TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16594:       +' Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDateTime; end)';
16595:     TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16596:       +' ct : TDatetime; LastContact : TDateTime; Magnitude:Extended;MaxeclipseUTime:TDateTime;end)';

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16595: TPlanet', '(< MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO >');
16596: TPlanetRec', 'record AsOf : TDateTime; Name : string; MeanLon : '
16597:   +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16598:   +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16599:   +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16600: TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRpoint; RadiusVector : '
16601:   extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRpoint; CorrectedEarthDistance:extended;
16602:   ApparentRaDecl:TRPoint; end');
16603: SIRegister_TAstronomy(CL);
16604: Function AngleToStr( angle : extended) : string');
16605: Function StrToAngle( s : string; var angle : extended) : boolean');
16606: Function HoursToStr24( t : extended) : string');
16607: Function RPoint( x, y : extended) : TRPoint');
16608: Function getStimenename( t : TDType) : string');
16609: end;
16610: 
16611: procedure SIRegister_UCardComponentV2(CL: TPSPascalCompiler);
16612: begin
16613:   TCardValue', 'Integer');
16614:   TCardSuit', '(< Spades, Diamonds, Clubs, Hearts >');
16615:   TShortSuit', '(< cardS, cardD, cardC, cardH >');
16616:   Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16617:   SIRegister_TCard(CL);
16618:   SIRegister_TDeck(CL);
16619: end;
16620: 
16621: procedure SIRegister_UTGraphSearch(CL: TPSPascalCompiler);
16622: begin
16623:   tMethodCall', 'Procedure');
16624:   tVerboseCall', 'Procedure ( s : string)');
16625:   // PTEdge', '^TEdge // will not work');
16626:   TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16627:   +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16628:   SIRegister_TNode(CL);
16629:   SIRegister_TGraphList(CL);
16630: end;
16631: 
16632: procedure SIRegister_UParser10(CL: TPSPascalCompiler);
16633: begin
16634:   ParserFloat', 'extended');
16635:   //PParserFloat', '^ParserFloat // will not work');
16636:   TDFFToken', '(< variab, constant, minus, sum, diff, prod, divis, mod'
16637:   +'ulo, IntDiv, IntDIV2, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar >');
16638:   //POperation', '^TOperation // will not work');
16639:   TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16640:   +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure';
16641:   +'; Token : TDFFToken; end');
16642:   TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16643:   (CL.FindClass('TOBJECT'),'EMathParserError');
16644:   CL.FindClass('TOBJECT'),'ESyntaxError');
16645:   (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16646:   (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16647:   (CL.FindClass('TOBJECT'),'ETooManyNestings');
16648:   (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16649:   (CL.FindClass('TOBJECT'),'EBadName');
16650:   ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16651:   SIRegister_TCustomParser(CL);
16652:   SIRegister_TExParser(CL);
16653: end;
16654: function isService: boolean;
16655: begin
16656:   result:= NOT(Application is TApplication);
16657:   {result:= Application is TServiceApplication;}
16658: end;
16659: function isApplication: boolean;
16660: begin
16661:   result:= Application is TApplication;
16662: end;
16663: //SM_REMOTESESSION = $1000
16664: function isTerminalSession: boolean;
16665: begin
16666:   result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16667: end;
16668: 
16669: procedure SIRegister_cyIEUtils(CL: TPSPascalCompiler);
16670: begin
16671:   CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16672:   +'String; margin_bottom : String; margin_left : String; margin_right : String';
16673:   +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16674:   Function cyURLEncode( const S : string) : string');
16675:   Function MakeResourceURL(const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16676:   Function MakeResourceURL1(const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;
16677:   Function cyColorToHtml( aColor : TColor) : String';
16678:   Function HtmlToColor( aHtmlColor : String) : TColor');
16679:   //Function GetStreamEncoding( aStream : TStream) : TEncoding';
16680:   // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding) : Boolean';
16681:   Function AddHtmlUnicodePrefix( aHtml : String) : String');

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16682: Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16683: Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16684: Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16685: CL.AddConstantN('IEBodyBorderless','String').SetString( 'none' );
16686: CL.AddConstantN('IEBodySingleBorder','String').SetString( '' );
16687: CL.AddConstantN('IEDesignModeOn','String').SetString( 'On' );
16688: CL.AddConstantN('IEDesignModeOff','String').SetString( 'Off' );
16689: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16690: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16691: end;
16692:
16693:
16694: procedure SIRegister_UcomboV2(CL: TPSPascalCompiler);
16695: begin
16696:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16697:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16698:     + 'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'
16699:     + 'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16700:     + 'inationsRepeat, CombinationsRepeatDown )');
16701:   CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16702:   SIRegister_TComboSet(CL);
16703: end;
16704:
16705: procedure SIRegister_cyBaseComm(CL: TPSPascalCompiler);
16706: begin
16707:   TcyCommandType', '( ctDevelopperDefined, ctUserDefined )');
16708:   TStreamContentType', '( scDevelopperDefined, scUserDefined, scString )');
16709:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16710:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16711:     + 'mmHandle : THandle; aString : String; userParam : Integer )';
16712:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16713:     + 'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16714:   SIRegister_TcyBaseComm(CL);
16715:   CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16716:   CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16717:   Function ValidateFileMappingName( aName : String ) : String';
16718:   procedure makeCaption(leftSide, Rightside:string; form:TForm);
16719: end;
16720:
16721: procedure SIRegister_cyDERUtils(CL: TPSPascalCompiler);
16722: begin
16723:   CL.AddTypeS('DERString', 'String');
16724:   CL.AddTypeS('DERChar', 'Char');
16725:   CL.AddTypeS('TElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16726:     + 'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16727:   CL.AddTypeS('TElementsTypes', 'set of TElementsType');
16728:   CL.AddTypeS('DERNString', 'String');
16729:   const DERDecimalSeparator,'String').SetString( '.' );
16730:   const DERDefaultChars','String')('+@/%-'
16731:     -.'0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ');
16732:   const DERNDefaultChars','String').SetString( '/%-.'0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ');
16733:   CL.AddDelphiFunction('Function isValidWebSiteChar( aChar : Char ) : Boolean');
16734:   Function isValidWebMailChar( aChar : Char ) : Boolean';
16735:   Function isValidwebSite( aStr : String ) : Boolean';
16736:   Function isValidWebMail( aStr : String ) : Boolean';
16737:   Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16738:   Function DERToStrToDate( aDERStr, aFormat : String ) : TDate';
16739:   Function IsDERChar( aChar : Char ) : Boolean';
16740:   Function IsDERDefaultChar( aChar : Char ) : Boolean';
16741:   Function IsDERMoneyChar( aChar : Char ) : Boolean';
16742:   Function IsDERExceptionCar( aChar : Char ) : Boolean';
16743:   Function IsDERSymbols( aDERString : String ) : Boolean';
16744:   Function StringToDERCharSet( aStr : String ) : DERString';
16745:   Function IsDERNDefaultChar( aChar : Char ) : Boolean';
16746:   Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16747:   Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16748:   Function DERExtractWebMail( aDERStr : DERString ) : String';
16749:   Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16750:   Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16751:   Function DERExecute1(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16752:   Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
aElementsType : TEelementsType ) : String';
16753:   Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
Boolean; var RsltDERStr : DERString; var RsltElementType : TEelementsType );
16754: end;
16755:
16756: procedure SIRegister_cyImage(CL: TPSPascalCompiler);
16757: begin
16758:   pRGBQuadArray', '^TRGBQuadArray // will not work');
16759:   Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer';
16760:   Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean );
16761:   Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean );
16762:   Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean );
16763:   Procedure BitmapSetPixelsContrast( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean );
16764:   Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean );

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16765: Procedure BitmapModifyRGB(Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool;
16766: Procedure BitmapReplaceColor(Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean);');
16767: Procedure BitmapReplaceColor1(Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor: Boolean;RefreshBmp:Bool;');
16768: Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean');");
16769: Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean');';
16770: Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor);';
16771: Procedure BitmapBlur(SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool;
16772: Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16773: Procedure GraphicMirror1(Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean);';
16774: Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16775: Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word);';
16776: Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String);';
16777: end;
16778:
16779: procedure SIRegister_WaveUtils(CL: TPSPascalCompiler);
16780: begin
16781:   TMS2StrFormat', '( msHMSh, msHMS, msMS, msSh, msS, msAh,msA )');
16782:   TPCMChannel', '( cMono, cStereo )');
16783:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16784:   TPCMBitsPerSample', '( bs8Bit, bs16Bit )');
16785:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono1b'
16786:     +'6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b'
16787:     +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b'
16788:     +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b'
16789:     +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b'
16790:     +'it48000Hz, Stereo16bit48000Hz )');
16791: PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; '
16792:   +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word; ecbSiz: Word; end');
16793: tWaveFormatEx', 'PWaveFormatEx');
16794: HMMIO', 'Integer');
16795: TWaveDeviceFormats', 'set of TPCMFormat');
16796: TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds'
16797:   +'PlaybackRate, dsPosition, dsAsynchronous, dsDirectSound )');
16798: CL.AddTypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16799: TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16800: TWaveOutOptions', 'set of TWaveOutOption');
16801: TStreamOwnership2', '( soReference, soOwned )');
16802: TWaveStreamState', '( wssReady, wssReading, wssWriting, wssWritingEx )');
16803: // PRawWave', '^TRawWave // will not work');
16804: TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16805: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16806: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16807: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16808: TWaveAudioEvent', 'Procedure ( Sender : TObject)');
16809: TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var pW'
16810:   +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16811: TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf'
16812:   +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD) : DWORD');
16813: TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu'
16814:   +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean) : DWORD');
16815: TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const '
16816:   +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean)');
16817: TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer)');
16818: TWaveAudioFilterEvent', 'Procedure (Sender : TObject; const Buffer:TObject; BufferSize:DWORD)';
16819: GetWaveAudioInfo(mmIO:HMMIO;var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16820: CreateWaveAudio(mmIO: HMMIO; const pWaveFormat:PWaveFormatEx;var ckRIFF,ckData:TMMCKInfo):Bool;
16821: CloseWaveAudio( mmIO : HMMIO; var ckRIFF, ckData : TMMCKInfo)');
16822: GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16823: CreateStreamWaveAudio(Stream: TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,ckData:TMMCKInfo):HMMIO;
16824: OpenStreamWaveAudio( Stream : TStream ) : HMMIO';
16825: CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD ) : DWORD');
16826: GetAudioFormat( FormatTag : Word ) : String');
16827: GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx ) : String');
16828: GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD ) : DWORD');
16829: GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx ) : DWORD');
16830: GetWaveAudioPeakLevel( const Data : TObject;DataSize:DWORD; const pWaveFormat:PWaveFormatEx) : Integer');
16831: InvertWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx) : Boolean');
16832: SilenceWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx) : Boolean');
16833: ChangeWaveAudioVolume( const Data:TObject;DataSize:DWORD;const pWaveFormat:PWaveFormatEx;Percent:Int) :Bool;
16834: MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer :
TObject; BufferSize : DWORD) : Boolean');
16835: ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const
dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD) : Boolean');
16836: SetPCMFormat(const pWaveFormat: PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec :
TPCMSamplesPerSec; BitsPerSample : TPCMBitsPerSample)');
16837: Procedure SetPCMFormatS( const pWaveFormat : PWaveFormatEx; PCMFormat : TPCMFormat)');
16838: GetPCMFormat( const pWaveFormat : PWaveFormatEx) : TPCMFormat');
16839: GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD) : DWORD');
16840: MS2Str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String');
16841: WaitForSyncObject( SyncObject : THandle; Timeout : DWORD) : DWORD');
16842: //mmioStreamProc( lpmmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD) : LRESULT');
16843: end;
16844:
16845: procedure SIRegister_NamedPipes(CL: TPSPascalCompiler);
16846: begin

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16847: 'DEFAULT_PIPE_BUFFER_SIZE','LongInt').SetInt( 4096);
16848: CL.AddConstantN('DEFAULT_PIPE_TIMEOUT','LongInt').SetInt( 5000);
16849: 'PIPE_NAMING_SCHEME','String').SetString( '\%s\pipe\%s');
16850: 'WAIT_ERROR','LongWord').SetUInt( DWORD( $FFFFFF ));
16851: 'WAIT_OBJECT_1','LongInt').SetInt( WAIT_OBJECT_0 + 1);
16852: 'STATUS_SUCCESS','LongWord').SetUInt( $00000000);
16853: 'STATUS_BUFFER_OVERFLOW','LongWord').SetUInt( $80000005);
16854: CL.AddTypeS('TPipeDirection', '( pdir_Duplex, pdir_ClientToServer, pdir_ServerToClient )');
16855: CL.AddTypeS('TPipeType', '( ptyp_BytByte, ptyp_MsgByte, ptyp_MsgMsg )');
16856: CL.AddTypeS('TOverlappedResult', '( ov_Failed, ov_Pending, ov_MoreData, ov_Complete )');
16857: SIRegister_TNamedPipe(CL);
16858: SIRegister_TSserverPipe(CL);
16859: SIRegister_TCClientPipe(CL);
16860: CL.AddDelphiFunction('Function CalculateTimeout( aBasis : DWORD ) : DWORD');
16861: Function HasOverlappedIoCompleted( const ov : OVERLAPPED ) : Boolean';
16862: Function GetOverlappedPipeResult(aHandle:THandle;const ov:OVERLAPPED;var dwBytes:DWORD;bWait:Boolean):TOverlappedResult;
16863: Function GetStreamAsText( stm : TStream ) : string';
16864: Procedure SetStreamAsText( const aTxt : string; stm : TStream );
16865: end;
16866:
16867: procedure SIRegister_DPUtils(CL: TPSPPascalCompiler);
16868: begin
16869: // CL.AddTypeS('pRGBTripleArray', '^TRGBTripleArray // will not work');
16870: SIRegister_TThumbData(CL);
16871: 'PIC_BMP','LongInt').SetInt( 0 );
16872: 'PIC_JPG','LongInt').SetInt( 1 );
16873: 'THUMB_WIDTH','LongInt').SetInt( 60 );
16874: 'THUMB_HEIGHT','LongInt').SetInt( 60 );
16875: Function IsEqualFile(Filename:string; Size:Integer; LastWriteTime : TDateTime): Boolean';
16876: Procedure GetFileInfo(Filename : string; var Size : Integer; var LastWriteTime : TDateTime)';
16877: Function ReadBitmap( Filehandle : Integer; Width, Height : Integer ) : TBitmap';
16878: Procedure WriteBitmap( Filehandle : Integer; bmp : TBitmap );
16879: Function OpenPicture( fn : string; var tp : Integer ) : Integer';
16880: Function ConvertPicture( pi : Integer; tp : Integer ) : TBitmap';
16881: Function LoadPicture( fn : string; var w, h : Integer ) : TBitmap';
16882: Function TurnBitmap( bmp : TBitmap; ang : Integer ) : TBitmap';
16883: Function RotateBitmap( Bitmap : TBitmap; Direction : Integer ) : TBitmap';
16884: Function StretchBitmap( Canvas : TCanvas; re : TRect; bmp : TBitmap ) : TRect';
16885: Function ThumbBitmap( Bitmap : TBitmap; Width, Height : Integer ) : TBitmap';
16886: Procedure ClearFrame( Canvas : TCanvas; Rect : TRect; Width, Height : Integer );
16887: Procedure FindFiles( path, mask : string; items : TStringList );
16888: Function LetfileName( s : string ) : string';
16889: Function LetParentPath( path : string ) : string';
16890: Function AddBackSlash( path : string ) : string';
16891: Function CutBackSlash( path : string ) : string';
16892: end;
16893:
16894: procedure SIRegister_CommonTools(CL: TPSPPascalCompiler);
16895: begin
16896: //BYTES','LongInt').SetInt( 1 );
16897: 'KBYTES','LongInt').SetInt( 1024 );
16898: 'DBG_ALIVE','LongWord').SetUInt( Integer( $11BABEL1 ) );
16899: 'DBG_DESTROYING','LongWord').SetUInt( Integer( $44FADE44 ) );
16900: 'DBG_GONE','LongWord').SetUInt( $99AC1D99 );
16901: 'SHELL_NS_MYCOMPUTER','String').SetString( '{20D04F0E-3AEA-1069-A2D8-08002B30309D}' );
16902: SIRegister_MakeComServerMethodsPublic(CL);
16903: CL.AddTypeS('TSomeFileInfo', '( fi_DisplayType, fi_Application )');
16904: Function IsFlagSet( dwTestForFlag, dwFlagSet : DWORD ) : Boolean';
16905: Procedure TBSetFlag( const dwThisFlag : DWORD; var dwFlagSet : DWORD; aSet : Boolean );
16906: Function TBGetTempFolder : string';
16907: Function TBGetTempFile : string';
16908: Function TBGetModuleFilename : string';
16909: Function FormatModuleVersionInfo( const aFilename : string ) : string';
16910: Function GetVersionInfoString( const aFile, aEntry : string; aLang : WORD ) : string';
16911: Function TBGetFileSize( aFile : string; aMultipleOf : Integer ) : Integer';
16912: Function FormatAttribString( aAttr : Integer ) : string';
16913: Function GetSomeFileInfo( aFile : string; aWhatInfo : TSomeFileInfo ) : string';
16914: Function ShellRecycle( aWnd : HWND; aFileOrFolder : string ) : Boolean';
16915: Function IsDebuggerPresent : BOOL';
16916: Function TBNotImplemented : HRESULT';
16917: end;
16918:
16919: procedure SIRegister_D2_VistaHelperU(CL: TPSPPascalCompiler);
16920: begin
16921: //CL.AddTypeS('OSVERSIONINFOEXA', '_OSVERSIONINFOEXA');
16922: //CL.AddTypeS('TOSVersionInfoExA', '_OSVERSIONINFOEXA');
16923: CL.AddTypeS('TOSVersionInfoEx', 'TOSVersionInfo');
16924: CL.AddTypeS('TDrivesProperty', 'array[1..26] of boolean');
16925: //TDrivesProperty = array['A'..'Z'] of boolean;
16926: Function TBSetSystemTime( DateTime : TDateTime; DOW : word ) : boolean';
16927: Function IsElevated : Boolean';
16928: Procedure CoCreateInstanceAsAdmin(aHWnd:HWND;const aClassID:GUID;const aIID:GUID;out aObj:TObject);
16929: CL.AddTypeS('TPasswordUsage', '( pu_None, pu_Default, pu_Defined )');
16930: Function TrimNetResource( UNC : string ) : string';
16931: Procedure GetFreeDrives( var FreeDrives : TDrivesProperty );
16932: Procedure GetMappedDrives( var MappedDrives : TDrivesProperty );
16933: Function MapDrive(UNCPath:string; Drive : char; PasswordUsage : TPasswordUsage; Password : string;
UserUsage : TPasswordUsage; User : string; Comment : string ) : boolean';

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16934: Function UnmapDrive( Drive : char; Force : boolean) : boolean';
16935: Function TBIsWindowsVista : Boolean';
16936: Procedure SetVistaFonts( const AForm : TForm)');
16937: Procedure SetVistaContentFonts( const AFont : TFont)');
16938: Function GetProductType( var sType : String) : Boolean';
16939: Function lstrcmp( lpString1, lpString2 : PChar) : Integer';
16940: Function lstrcmpi( lpString1, lpString2 : PChar) : Integer');
16941: Function lstrcpy( lpString1, lpString2 : PChar; iMaxLength : Integer) : PChar';
16942: Function lstrcpy( lpString1, lpString2 : PChar) : PChar';
16943: Function lstrcat( lpString1, lpString2 : PChar) : PChar';
16944: Function lstrlen( lpString : PChar) : Integer');
16945: Function GetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD; var ReturnLength : DWORD) : BOOL';
16946: Function SetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD) : BOOL';
16947: end;
16948:
16949: procedure SIRегистre_dwsXPlatform(CL: TPPascalCompiler);
16950: begin
16951:   'cLineTerminator','Char').SetString( #10);
16952:   'clineTerminators','String').SetString( #13#10);
16953:   'INVALID_HANDLE_VALUE','LongInt').SetInt( DWORD( - 1 ) );
16954:   SIRегистre_TFixedCriticalSection(CL);
16955:   SIRегистre_TMultiReadSingleWrite(CL);
16956:   CL.AddDelphiFunction('Procedure SetDecimalSeparator( c : Char)');
16957:   Function GetDecimalSeparator : Char');
16958:   TCollectFileProgressEvent', 'Procedure ( const directory : String; var skipScan : Boolean)');
16959:   Procedure CollectFiles(const directory,fileMask:UnicodeString; list:TStrings;
recurseSubdirectories:Boolean; onProgress : TCollectFileProgressEvent)');
16960:   CL.AddTypeS('NativeInt', 'Integer');
16961:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16962:   CL.AddTypeS('NativeUIInt', 'Cardinal');
16963:   //CL.AddTypeS('PNativeUIInt', '^NativeUIInt // will not work');
16964:   //CL.AddTypeS('TBytes', 'array of Byte');
16965:   CL.AddTypeS('RawByteString', 'UnicodeString');
16966:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16967:   //CL.AddTypeS('PUInt64', '^UInt64 // will not work');
16968:   SIRегистre_TPath(CL);
16969:   SIRегистre_TFile(CL);
16970:   SIRегистre_TDwsThread(CL);
16971:   Function GetSystemMilliseconds : Int64';
16972:   Function UTCDateTime : TDateTime';
16973:   Function UnicodeFormat(const fmt:UnicodeString; const args : array of const): UnicodeString';
16974:   Function UnicodeCompareStr( const S1, S2 : UnicodeString) : Integer';
16975:   Function dwsAnsiCompareText( const S1, S2 : UnicodeString) : Integer';
16976:   Function dwsAnsiCompareStr( const S1, S2 : UnicodeString) : Integer';
16977:   Function UnicodeComparePChars( p1 : PChar; n1 : Integer; p2 : PChar; n2 : Integer) : Integer';
16978:   Function UnicodeComparePChars1( p1, p2 : PChar; n : Integer) : Integer';
16979:   Function UnicodeLowerCase( const s : UnicodeString) : UnicodeString';
16980:   Function UnicodeUpperCase( const s : UnicodeString) : UnicodeString';
16981:   Function ASCIICompareText( const s1, s2 : UnicodeString) : Integer';
16982:   Function ASCIISameText( const s1, s2 : UnicodeString) : Boolean';
16983:   Function InterlockedIncrement( var val : Integer) : Integer';
16984:   Function InterlockedDecrement( var val : Integer) : Integer';
16985:   Procedure FastInterlockedIncrement( var val : Integer)');
16986:   Procedure FastInterlockedDecrement( var val : Integer)');
16987:   Function InterlockedExchangePointer( var target : __Pointer; val : __Pointer) : __Pointer';
16988:   Procedure SetThreadName( const threadName : Char; threadID : Cardinal)';
16989:   Procedure dwsOutputDebugString( const msg : UnicodeString)';
16990:   Procedure WriteToOSEventLog(const logName,logCaption,logDetails:UnicodeString;const logRawData:Str);
16991:   Function TryTextToFloat(const s:PChar;var value:Extended;const formatSettings:TFormatSettings):Bool;
16992:   Procedure VarCopy( out dest : Variant; const src : Variant)');
16993:   Function VarToUnicodeStr( const v : Variant) : UnicodeString';
16994:   Function LoadTextFromBuffer( const buf : TBytes) : UnicodeString';
16995:   Function LoadTextFromStream( aStream : TStream) : UnicodeString';
16996:   Function LoadTextFromFile( const fileName : UnicodeString) : UnicodeString';
16997:   Procedure SaveTextToUTF8File( const fileName, text : UnicodeString)';
16998:   Function OpenFileForSequentialReadOnly( const fileName : UnicodeString) : THandle';
16999:   Function OpenFileForSequentialWriteOnly( const fileName : UnicodeString) : THandle';
17000:   Procedure CloseFileHandle( hFile : THandle)');
17001:   Function FileCopy(const existing, new : UnicodeString; failIfExists : Boolean):Boolean';
17002:   Function FileMove( const existing, new : UnicodeString) : Boolean';
17003:   Function dwsFileDelete( const fileName : String) : Boolean';
17004:   Function FileRename( const oldName, newName : String) : Boolean';
17005:   Function dwsFileSize( const name : String) : Int64';
17006:   Function dwsFileDateTime( const name : String) : TDateTime';
17007:   Function DirectSet8087CW( newValue : Word) : Word';
17008:   Function DirectSetMXCSR( newValue : Word) : Word';
17009:   Function TtoObject( const T: byte) : TObject';
17010:   Function TtoPointer( const T: byte) : __Pointer';
17011:   Procedure GetMemForT(var T: byte; Size : integer)';
17012:   Function FindDelimiter( const Delimiters, S : string; StartIdx : Integer) : Integer');
17013: end;
17014:
17015: procedure SIRегистre_AdSocket(CL: TPPascalCompiler);
17016: begin
17017:   'IPStrSize','LongInt').SetInt( 15 );
17018:   'CM_APDSOCKETMESSAGE','LongWord').SetUInt( WM_USER + $0711 );
17019:   'CM_APDSOCKETQUIT','LongWord').SetUInt( WM_USER + $0712 );

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17020:   'ADWSBASE', 'LongInt').SetInt( 9000);
17021:   CL.AddTypeS('TCMAPDSocketMessage', 'record Msg : Cardinal; Socket : TSocket; '
17022:     +'SelectEvent : Word; SelectError : Word; Result : Longint; end');
17023:   SIRegister_TApdSocketException(CL);
17024:   TWsMode', '( wsClient, wsServer )');
17025:   TWsNotifyEvent', 'Procedure ( Sender : TObject; Socket : TSocket)');
17026:   TWsSocketErrorEvent', 'Procedure ( Sender : TObject; Socket : TSocket; ErrorCode : Integer)');
17027:   SIRegister_TApdSocket(CL);
17028: end;
17029:
17030: procedure SIRegister_AdPort(CL: TPSPPascalCompiler);
17031: begin
17032:   SIRegister_TApdCustomComPort(CL);
17033:   SIRegister_TApdComPort(CL);
17034:   Function ComName( const ComNumber : Word ) : ShortString';
17035:   Function SearchComPort( const C : TComponent ) : TApdCustomComPort';
17036: end;
17037:
17038: procedure SIRegister_PathFunc(CL: TPSPPascalCompiler);
17039: begin
17040:   Function inAddBackslash( const S : String ) : String';
17041:   Function PathChangeExt( const Filename, Extension : String ) : String';
17042:   Function PathCharCompare( const S1, S2 : PChar ) : Boolean';
17043:   Function PathCharIsSlash( const C : Char ) : Boolean';
17044:   Function PathCharIsTrailByte( const S : String; const Index : Integer ) : Boolean';
17045:   Function PathCharLength( const S : String; const Index : Integer ) : Integer';
17046:   Function inPathCombine( const Dir, Filename : String ) : String';
17047:   Function PathCompare( const S1, S2 : String ) : Integer';
17048:   Function PathDrivePartLength( const Filename : String ) : Integer';
17049:   Function PathDrivePartLengthEx(const Filename:String;const IncludeSignificantSlash:Bool):Int;
17050:   Function inPathExpand( const Filename : String ) : String';
17051:   Function PathExtensionPos( const Filename : String ) : Integer';
17052:   Function PathExtractDir( const Filename : String ) : String';
17053:   Function PathExtractDrive( const Filename : String ) : String';
17054:   Function PathExtractExt( const Filename : String ) : String';
17055:   Function PathExtractName( const Filename : String ) : String';
17056:   Function PathExtractPath( constFilename : String ) : String';
17057:   Function PathIsRooted( const Filename : String ) : Boolean';
17058:   Function PathLastChar( const S : String ) : PChar';
17059:   Function PathLastDelimiter( const Delimiters, S : string ) : Integer';
17060:   Function PathLowercase( const S : String ) : String';
17061:   Function PathNormalizeSlashes( const S : String ) : String';
17062:   Function PathPathPartLength(const Filename:String;const IncludeSlashesAfterPath:Bool):Int;
17063:   Function PathPos( Ch : Char; const S : String ) : Integer';
17064:   Function PathStartsWith( const S, AStartsWith : String ) : Boolean';
17065:   Function PathStrNextChar( const S : PChar ) : PChar';
17066:   Function PathStrPrevChar( const Start, Current : PChar ) : PChar';
17067:   Function PathStrScan( const S : PChar; const C : Char ) : PChar';
17068:   Function inRemoveBackslash( const S : String ) : String';
17069:   Function RemoveBackslashUnlessRoot( const S : String ) : String';
17070:   Procedure PathFuncRunTests( const AlsoTestJapaneseDBCS : Boolean );
17071: end;
17072:
17073:
17074: procedure SIRegister_CmnFunc2(CL: TPSPPascalCompiler);
17075: begin
17076:   NEWREGSTR_PATH_SETUP', 'String').SetString( 'Software\Microsoft\Windows\CurrentVersion');
17077:   NEWREGSTR_PATH_EXPLORER', 'String').SetString( NEWREGSTR_PATH_SETUP + '\Explorer');
17078:   NEWREGSTR_PATH_SPECIAL_FOLDERS', 'String').SetString(NEWREGSTR_PATH_EXPLORER + '\Shell Folders');
17079:   NEWREGSTR_PATH_UNINSTALL', 'String').SetString( NEWREGSTR_PATH_SETUP + '\Uninstall');
17080:   NEWREGSTR_VAL_UNINSTALLER_DISPLAYNAME', 'String').SetString( 'DisplayName');
17081:   NEWREGSTR_VAL_UNINSTALLER_COMMANDLINE', 'String').SetString( 'UninstallString');
17082:   KEY_WOW64_64KEY', 'LongWord').SetUInt( $0100);
17083:   //CL.AddTypeS('TLeadByteSet', 'TLeadByteSet // will not work');
17084:   CL.AddTypeS('TLeadByteSet', 'set of Char');
17085:   SIRegister_TOneShotTimer(CL);
17086:   CL.AddTypeS('TRegView', '( rvDefault, rv32Bit, rv64Bit )');
17087:   'RegViews64Bit', 'LongInt').Value.ts32 := ord(rv64bit);
17088:   Function NewFileExists( const Name : String ) : Boolean';
17089:   Function inDirExists( const Name : String ) : Boolean';
17090:   Function FileOrDirExists( const Name : String ) : Boolean';
17091:   Function IsDirectoryAndNotReparsePoint( const Name : String ) : Boolean';
17092:   Function GetIniString( const Section, Key : String; Default:String; const Filename:String): String';
17093:   Function GetIniInt(const Section,Key:String;const Default,Min,Max:Longint;const Filenam:String):Longint;
17094:   Function GetIniBool( const Section,Key:String; const Default:Boolean;const Filenam:String): Boolean';
17095:   Function IniKeyExists( const Section, Key, Filename : String ) : Boolean';
17096:   Function IsIniSectionEmpty( const Section, Filename : String ) : Boolean';
17097:   Function SetIniString( const Section, Key, Value, Filename : String ) : Boolean';
17098:   Function SetIniInt(const Section,Key:String;const Value: Longint;const Filenam: String):Boolean';
17099:   Function SetIniBool(const Section,Key:String;const Value: Boolean;const Filenam: String):Boolean';
17100:   Procedure DeleteIniEntry( const Section, Key, Filename : String );
17101:   Procedure DeleteIniSection( const Section, Filename : String );
17102:   Function GetEnv( const EnvVar : String ) : String';
17103:   Function GetCmdTail : String';
17104:   Function GetCmdTailEx( StartIndex : Integer ) : String';
17105:   Function NewParamCount : Integer';
17106:   Function NewParamStr( Index : Integer ) : string';
17107:   Function AddQuotes( const S : String ) : String';
17108:   Function RemoveQuotes( const S : String ) : String';

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17109: Function inGetShortName( const LongName : String ) : String';
17110: Function inGetWinDir : String');
17111: Function inGetSystemDir : String');
17112: Function GetSysWow64Dir : String');
17113: Function GetSysNativeDir( const IsWin64 : Boolean ) : String');
17114: Function inGetTempDir : String');
17115: Function StringChange( var S : String; const FromStr,ToStr : String ) : Integer');
17116: Function StringChangeEx(var S:String;const FromStr,ToStr:String;const SupportDBCS:Bool):Int;
17117: Function AdjustLength( var S : String; const Res : Cardinal ) : Boolean');
17118: Function UsingWinNT : Boolean');
17119: Function ConvertConstPercentStr( var S : String ) : Boolean');
17120: Function ConvertPercentStr( var S : String ) : Boolean');
17121: Function ConstPos( const Ch : Char; const S : String ) : Integer');
17122: Function SkipPastConst( const S : String; const Start : Integer ) : Integer');
17123: Function RegQueryStringValue( H : HKEY; Name : PChar; var ResultStr : String ) : Boolean');
17124: Function RegQueryMultiStringValue( H : HKEY; Name : PChar; var ResultStr : String ):Boolean;
17125: Function RegValueExists( H : HKEY; Name : PChar ) : Boolean');
17126: Function RegCreateKeyExView(const RegView:TRegView;hKey:HKEY;lpSubKey:PChar;Reserved:DWORD;lpClass:PChar;
dwOptions:DWORD;samDesired:REGSAM;lpSecurityAttributes:TObject;var phkResult:HKEY;lpdwDisposition:DWORD):Longint;
17127: Function RegOpenKeyExView(const RegView:TRegView;hKey:HKEY;lpSubKey:PChar;ulOptions:DWORD;samDesired:REGSAM;var phkResult:HKEY):Longint;
17128: Function RegDeleteKeyView( const RegView : TRegView; const Key : HKEY; const Name : PChar ) : Longint;
17129: Function RegDeleteKeyIncludingSubkeys(const RegView:TRegView;const Key:HKEY;const Name:PChar):Longint;
17130: Function RegDeleteKeyIfEmpty(const RegView:TRegView;const RootKey:HKEY;const SubkeyName:PChar):Longint;
17131: Function GetShellFolderPath( const FolderID : Integer ) : String');
17132: Function IsAdminLoggedOn : Boolean');
17133: Function IsPowerUserLoggedOn : Boolean');
17134: Function IsMultiByteString( const S : AnsiString ) : Boolean');
17135: Function FontExists( const FaceName : String ) : Boolean');
17136: //Procedure FreeAndNil( var Obj );
17137: Function SafeLoadLibrary( const Filename : String; ErrorMode : UINT ) : HMODULE');
17138: Function GetUILanguage : LANGID');
17139: Function RemoveAccelChar( const S : String ) : String');
17140: Function GetTextWidth(const DC : HDC; S : String; const Prefix:Boolean):Integer');
17141: Function AddPeriod( const S : String ) : String');
17142: Function GetExceptMessage : String');
17143: Function GetPreferredUIFont : String');
17144: Function IsWildcard( const Pattern : String ) : Boolean');
17145: Function WildcardMatch( const Text, Pattern : PChar ) : Boolean');
17146: Function IntMax( const A, B : Integer ) : Integer');
17147: Function Win32ErrorString( ErrorCode : Integer ) : String');
17148: Procedure GetLeadBytes( var ALeadBytes : TLeadByteSet ) );
17149: Function inCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean');
17150: Function DeleteDirTree( const Dir : String ) : Boolean');
17151: Function SetNTFSCompression(const FileOrDir: String; Compress : Boolean) : Boolean');
17152: Procedure AddToWindowMessageFilterEx( const Wnd : HWND; const Msg : UINT ) );
17153: // CL.AddTypeS('TSysCharSet', 'set of AnsiChar');
17154: Function inCharInSet( C : Char; const CharSet : TSysCharSet ) : Boolean');
17155: Function ShutdownBlockReasonCreate( Wnd : HWND; const Reason : String ) : Boolean');
17156: Function ShutdownBlockReasonDestroy( Wnd : HWND ) : Boolean');
17157: Function TryStrToBoolean( const S : String; var BoolResult : Boolean ) : Boolean');
17158: Procedure WaitMessageWithTimeout( const Milliseconds : DWORD ) );
17159: Function MoveFileReplace(const ExistingFileName, NewFileName : String ) : Boolean');
17160: Procedure TryEnableAutoCompleteFileSystem( Wnd : HWND ) );
17161: end;
17162:
17163: procedure SIRegister_CmnFunc(CL: TPPascalCompiler);
17164: begin
17165:   SIRegister_TWindowDisabler(CL);
17166:   TMsgBoxType', '( mbInformation, mbConfirmation, mbError, mbCriticalError )');
17167:   TMsgBoxCallbackFunc', 'procedure(const Flags:LongInt;const After:Bool;const Param:LongInt);
17168:   Procedure UpdateHorizontalExtent( const ListBox : TCustomListBox );
17169:   Function MinimizePathName(const Filename:String; const Font:TFont;MaxLen:Integer):String;
17170:   Function AppMessageBox( const Text, Caption : PChar; Flags : Longint ) : Integer');
17171:   Function MsgBoxP( const Text,Caption: PChar; const Typ: TMMsgBoxType;const Buttons:Cardinal):Int;
17172:   Function inMsgBox(const Text,Caption:String; const Typ: TMMsgBoxType;const Buttons:Cardinal):Int;
17173:   Function MsgBoxFmt(const Text:String;const Args:array of const;const Caption:String;const
Typ:TMMsgBoxType;const Buttons:Cardinal):Integer );
17174:   Procedure ReactivateTopWindow );
17175:   Procedure SetMessageBoxCaption( const Typ : TMMsgBoxType; const NewCaption : PChar );
17176:   Procedure SetMessageBoxRightToLeft( const ARightToLeft : Boolean );
17177:   Procedure SetMessageBoxCallbackFunc(const AFunc : TMMsgBoxCallbackFunc; const AParam : LongInt );
17178: end;
17179:
17180: procedure SIRegister_ImageGrabber(CL: TPPascalCompiler);
17181: begin
17182:   SIRegister_TImageGrabber(CL);
17183:   SIRegister_TCaptureDrivers(CL);
17184:   SIRegister_TCaptureDriver(CL);
17185: end;
17186:
17187: procedure SIRegister_SecurityFunc(CL: TPPascalCompiler);
17188: begin
17189:   Function GrantPermissionOnFile(const DisableFsRedir:Boolean; Filename:String;const
Entries:TGrantPermissionEntry; const EntryCount:Integer):Boolean );
17190:   Function GrantPermissionOnKey(const RegView:TRegView;const RootKey:HKEY;const Subkey:String;const
Entries: TGrantPermissionEntry; const EntryCount:Integer): Boolean );
17191: end;

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17192:
17193: procedure SIRегистер_RedirFunc(CL: TPSPascalCompiler);
17194: begin
17195:   CL.AddTypeS('TPreviousFsRedirectionState', 'record DidDisable : Boolean; OldValue : __Pointer; end');
17196:   CL.AddDelphiFunction('Function AreFsRedirectionFunctionsAvailable : Boolean');
17197:   Function DisableFsRedirectionIf(const Disable:Boolean;var PreviousState:TPreviousFsRedirectionState):Boolean;
17198:   Procedure RestoreFsRedirection( const PreviousState : TPreviousFsRedirectionState );
17199:   Function CreateDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL;
17200:   Function CreateProcessRedir( const DisableFsRedir : Boolean; const lpApplicationName:PChar;const
lpCommandLine:PChar; const lpProcessAttributes, lpThreadAttributes:PSecurityAttributes;const
bInheritHandles:BOOL; const dwCreationFlags:DWORD;const lpEnvironment:Pointer; const
lpCurrentDirectory:PChar; const lpStartupInfo : TStartupInfo; var
lpProcessInformation:TProcessInformation):BOOL;
17201:   Function CopyFileRedir(const DisableFsRedir:Boolean; const ExistingFilename, NewFilename : String; const
FailIfExists : BOOL) : BOOL';
17202:   Function DeleteFileRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17203:   Function DirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17204:   Function FileOrDirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17205:   Function FindFirstFileRedir( const DisableFsRedir : Boolean; const Filename : String; var FindData :
TWin32FindData ) : THandle';
17206:   Function GetFileAttributesRedir( const DisableFsRedir : Boolean; const Filename : String ) : DWORD';
17207:   Function GetShortNameRedir( const DisableFsRedir : Boolean; const Filename : String ) : String';
17208:   Function GetVersionNumbersRedir(const DisableFsRedir:Boolean; const Filename:String; var VersionNumbers :
TFileVersionNumbers ) : Boolean';
17209:   Function IsDirectoryAndNotReparsePointRedir(const DisableFsRedir:Boolean;const Name:String):Bool;
17210:   Function MoveFileRedir( const DisableFsRedir:Bool;const ExistingFilename,NewFilename:String):BOOL;
17211:   Function MoveFileExRedir( const DisableFsRedir:Bool;const ExistingFilen,NewFilename:String;const
Flags:DWORD ):BOOL;
17212:   Function NewFileExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17213:   Function RemoveDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17214:   Function SetFileAttributesRedir(const DisableFsRedir:Bool;const Filename:String;const Attrib:DWORD):BOOL;
17215:   Function SetNTFSCompressionRedir( const DisableFsRedir:Boolean;const FileOrDir:String;Compress:Bool:Bool;
17216:     SIRегистер_TFileRedir(CL);
17217:     SIRегистер_TTextFileReaderRedir(CL);
17218:     SIRегистер_TTextFileWriterRedir(CL);
17219:   end;
17220:
17221: procedure SIRегистер_Int64Em(CL: TPSPascalCompiler);
17222: begin
17223:   //CL.AddTypeS('LongWord', 'Cardinal');
17224:   CL.AddTypeS('Integer64', 'record Lo : LongWord; Hi : LongWord; end');
17225:   Function Compare64( const N1, N2 : Integer64 ) : Integer';
17226:   Procedure Dec64( var X : Integer64; N : LongWord );
17227:   Procedure Dec6464( var X : Integer64; const N : Integer64 );
17228:   Function Div64( var X : Integer64; const Divisor : LongWord ) : LongWord';
17229:   Function Inc64( var X : Integer64; N : LongWord ) : Boolean';
17230:   Function Inc6464( var X : Integer64; const N : Integer64 ) : Boolean';
17231:   Function Integer64ToStr( X : Integer64 ) : String';
17232:   Function Mod64( const X : Integer64; const Divisor : LongWord ) : LongWord';
17233:   Function Mul64( var X : Integer64; N : LongWord ) : Boolean';
17234:   Procedure Multiply32x32to64( N1, N2 : LongWord; var X : Integer64 );
17235:   Procedure Shr64( var X : Integer64; Count : LongWord );
17236:   Function StrToInteger64( const S : String; var X : Integer64 ) : Boolean';
17237: end;
17238:
17239: procedure SIRегистер_InstFunc(CL: TPSPascalCompiler);
17240: begin
17241:   //CL.AddTypeS('PSimpleStringListArray', '^TSimpleStringListArray // will not work');
17242:   SIRегистер_TSsimpleStringList(CL);
17243:   CL.AddTypeS('TExecWait', '( ewNoWait, ewWaitUntilTerminated, ewWaitUntilIdle )');
17244:   CL.AddTypeS('TDetermineDefaultLanguageResult', '( ddNoMatch, ddMatch, ddMatchLangParameter )');
17245:   CL.AddTypeS('TMD5Digest', 'array[0..15] of Byte;');
17246:   CL.AddTypeS('TSHA1Digest', 'array[0..19] of Byte;');
17247:   // TMD5Digest = array[0..15] of Byte;
17248:   // TSHA1Digest = array[0..19] of Byte;
17249:   Function CheckForMutexes( Mutexes : String ) : Boolean';
17250:   Function CreateTempDir : String';
17251:   Function DecrementSharedCount( const RegView : TRegView; const Filename : String ) : Boolean';
17252:   Procedure DelayDeleteFile( const DisableFsRedir : Boolean; const Filename : String; const MaxTries,
FirstRetryDelayMS, SubsequentRetryDelayMS : Integer );
17253:   //Function DelTree( const DisableFsRedir : Boolean; const Path : String; const IsDir, DeleteFiles,
DeleteSubdirsAlso, BreakOnError : Boolean; const DeleteDirProc : TDeleteDirProc; const DeleteFileProc :
TDeleteFileProc; const Param : Pointer ) : Boolean';
17254:   //Function DetermineDefaultLanguage( const GetLanguageEntryProc : TGetLanguageEntryProc; const Method :
TSetupLanguageDetectionMethod; const LangParameter : String; var ResultIndex : Integer ) :
TDetermineDefaultLanguageResult';
17255:   //Procedure EnumFileReplaceOperationsFilenames(const EnumFunc:TEnumFROFilenamesProc;Param:Pointer);
17256:   Function GenerateNonRandomUniqueFilename( Path : String; var Filename : String ) : Boolean';
17257:   Function GenerateUniqueName(const DisableFsRedir:Boolean;Path:String;const Extension:String):String;
17258:   Function GetComputerNameString : String';
17259:   Function GetFileDateTime( const DisableFsRedir:Boolean;const Filename:String;var DateTime:TFileTime ):Bool;
17260:   Function GetMD5OfFile( const DisableFsRedir : Boolean; const Filename : String ) : TMD5Digest';
17261:   Function GetMD5OfAnsiString( const S : AnsiString ) : TMD5Digest';
17262:   // Function GetMD5OfUnicodeString( const S : UnicodeString ) : TMD5Digest';
17263:   Function GetSHA1OfFile(const DisableFsRedir:Boolean;const Filename:String):TSHA1Digest';
17264:   Function GetSHA1OfAnsiString( const S : AnsiString ) : TSHA1Digest';
17265:   // Function GetSHA1OfUnicodeString( const S : UnicodeString ) : TSHA1Digest';
17266:   Function GetRegRootKeyName( const RootKey : HKEY ) : String';
17267:   Function GetSpaceOnDisk(const DisableFsRedir:Bool;const DriveRoot:String;var FreeBytes,
TotBytes:Int64):Bool;

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17268: Function GetSpaceOnNearestMountPoint(const DisableFsRedir:Bool;const StartDir:String;var FreeBytes,
17269:   TotalBytes: Integer64):Bool;
17270: Procedure IncrementSharedCount(const RegView:TRegView;const Filename:String;const AlreadyExisted:Boolean);
17271: //Function InstExec( const DisableFsRedir : Boolean; const Filename, Params : String; WorkingDir :
17272:   String; const Wait:TExecWait;const ShowCmd:Integer;const ProcessMessagesProc:TProcedure;var
17273:   ResultCode:Integer) : Boolean';
17274: // Function InstShellExec( const Verb, Filename, Params : String; WorkingDir : String; const Wait :
17275:   TExecWait; const ShowCmd:Integer;const ProcessMessagesProc:TProcedure;var ResultCode:Integer):Boolean;
17276: Procedure InternalError( const Id : String)');
17277: Procedure InternalErrorFmt( const S : String; const Args : array of const)');
17278: Function IsDirEmpty( const DisableFsRedir : Boolean; const Dir : String) : Boolean';
17279: Function IsProtectedSystemFile(const DisableFsRedir:Boolean; const Filename:String) : Boolean');
17280: Function MakePendingFileRenameOperationsChecksum : TMD5Digest');
17281: Function ModifyPifFile( const Filename : String; const CloseOnExit : Boolean) : Boolean');
17282: Procedure RaiseFunctionFailedError( const FunctionName : String)');
17283: Procedure RaiseOleError( const FunctionName : String; const ResultCode : HRESULT)');
17284: Procedure RefreshEnvironment ')';
17285: Function ReplaceSystemDirWithSysWow64( const Path : String) : String');
17286: Function ReplaceSystemDirWithSysNative( Path : String; const IsWin64 : Boolean) : String');
17287: Procedure RegisterTypeLibrary( const Index : Integer; var AName, AValue : String)');
17288: Procedure Win32ErrorMsg( const FunctionName : String)');
17289: Procedure Win32ErrorMsgEx( const FunctionName : String; const ErrorCode : DWORD)');
17290: Function inForceDirectories(const DisableFsRedir:Boolean; Dir : String) : Boolean');
17291: //from Func2
17292: //Function inCreateShellLink( const Filename, Description, ShortcutTo, Parameters, WorkingDir : String;
17293:   IconFilename : String; const IconIndex, ShowCmd : Integer; const HotKey : Word; FolderShortcut : Boolean;
17294:   //+'const AppUserModelID:String;const ExcludeFromShowInNewInstall,PreventPinning:Bool):String';
17295: Procedure RegisterTypeLibrary( const Filename : String)');
17296: //Procedure UnregisterTypeLibrary( const Filename : String)');
17297: function getVersionInfoEx3: TOSVersionInfoEx)';
17298: Function GetVersionEx3(out verinfo: TOSVersionInfoEx): boolean;');
17299: procedure InitOle();
17300: Function ExpandConst( const S : String) : String');
17301: Function ExpandConstEx( const S : String; const CustomConsts : array of String) : String');
17302: Function ExpandConstEx2(const S:Str;const CustConsts:array of Str;const DoExpandIndividualConst:Bool):Str;
17303: Function ExpandConstIfPrefixed( const S : String) : String');
17304: Procedure LogWindowsVersion)';
17305: Function EvalCheck( const Expression : String) : Boolean');
17306: end;
17307:
17308: procedure SIRegister_unitResourceDetails(CL: TPSPascalCompiler);
17309: begin
17310:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TResourceDetails');
17311:   //CL.AddTypeS('TResourceDetailsClass', 'class of TResourceDetails');
17312:   SIRegister_TResourceModule(CL);
17313:   SIRegister_TResourceDetails(CL);
17314:   SIRegister_TAnsiResourceDetails(CL);
17315:   SIRegister_TUnicodeResourceDetails(CL);
17316:   Procedure RegisterResourceDetails( resourceClass : TResourceDetailsClass)');
17317:   Procedure UnRegisterResourceDetails( resourceClass : TResourceDetailsClass)');
17318:   Function ResourceWideCharToStr( var wstr : PWideChar; codePage : Integer) : string');
17319:   Procedure ResourceStrToWideChar( const s : string; var p : PWideChar; codePage : Integer)');
17320:   Function ResourceNameToInt( const s : string) : Integer');
17321:   Function CompareDetails( p1, p2 : TObject(Pointer)) : Integer');
17322: end;
17323:
17324:
17325: procedure SIRegister_TSsimpleComPort(CL: TPSPascalCompiler);
17326: begin
17327:   //with RegClassS(CL,'TObject', 'TSimpleComPort') do
17328:     with CL.AddClassN(CL.FindClass('TObject'), 'TSimpleComPort') do begin
17329:       RegisterMethod('Constructor Create');
17330:       RegisterMethod('Procedure Free');
17331:       RegisterMethod('Procedure Open( PortNumber : Integer; const Parameters : String)');
17332:       RegisterMethod('Procedure WriteString( const S : String)');
17333:       RegisterMethod('Procedure ReadString( var S : String)');
17334:     end;
17335:   Ex:= SimpleComPort:= TSsimpleComPort.Create;
17336:   SimpleComPort.Open(1, 'baud=115200 parity=N data=8 stop=1');
17337:   SimpleComPort.WriteString(AsciiChar);
17338: end;
17339:
17340:
17341: procedure SIRegister_Console(CL: TPSPascalCompiler);
17342: begin
17343:   CL.AddConstantN('White','LongInt').SetInt( 15);
17344:   // CL.AddConstantN('Blink','LongInt').SetInt( 128);
17345:   ('conBW40','LongInt').SetInt( 0);
17346:   ('conCO40','LongInt').SetInt( 1);
17347:   ('conBW80','LongInt').SetInt( 2);
17348:   ('conCO80','LongInt').SetInt( 3);
17349:   ('conMono','LongInt').SetInt( 7);
17350:   CL.AddConstantN('conFont8x8','LongInt').SetInt( 256);
17351:   //CL.AddConstantN('C40','').SetString( CO40);

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17352: //CL.AddConstantN('C80','').SetString( C080);
17353: Function con.ReadKey : Char');
17354: Function conKeyPressed : Boolean');
17355: Procedure conGotoXY( X, Y : Smallint)');
17356: Function conWhereX : Integer');
17357: Function conWhereY : Integer');
17358: Procedure conTextColor( Color : Byte);');
17359: Function conTextColor1 : Byte);';
17360: Procedure conTextBackground( Color : Byte);');
17361: Function conTextBackground1 : Byte);';
17362: Procedure conTextMode( Mode : Word)');
17363: Procedure conLowVideo');
17364: Procedure conHighVideo');
17365: Procedure conNormVideo');
17366: Procedure conClrScr');
17367: Procedure conClrEol');
17368: Procedure conInsLine');
17369: Procedure conDelLine');
17370: Procedure conWindow( Left, Top, Right, Bottom : Integer)');
17371: Function conScreenWidth : Smallint');
17372: Function conScreenHeight : Smallint');
17373: Function conBufferWidth : Smallint');
17374: Function conBufferHeight : Smallint');
17375: procedure InitScreenMode;');
17376: end;
17377:
17378: (*-----*)
17379: procedure SIRegister_testutils(CL: TPSPascalCompiler);
17380: begin
17381:   SIRegister_TNoRefCountObject(CL);
17382:   Procedure FreeObjects( List : TFPList)');
17383:   Procedure GetMethodList( AObject : TObject; AList : TStrings)');
17384:   Procedure GetMethodList1( AClass : TClass; AList : TStrings)');
17385: end;
17386:
17387: procedure SIRegister_ToolsUnit(CL: TPSPascalCompiler);
17388: begin
17389:   'MaxDataSet', 'LongInt').SetInt( 35);
17390:   //CL.AddTypeS('TDBConnectorClass', 'class of TDBConnector');
17391:   SIRegister_TDBConnector(CL);
17392:   SIRegister_TDBBasicsTestSetup(CL);
17393:   SIRegister_TTestDataLink(CL);
17394:   'testValuesCount','Longint').SetInt( 25);
17395:   Procedure InitialiseDBConnector');
17396:   Procedure FreeDBConnector');
17397:   Function DateTimeToString( d : tdatetime) : string');
17398:   Function TStringToDate( d : String) : TDate');
17399: end;
17400:
17401: procedure SIRegister_fpcunit(CL: TPSPascalCompiler);
17402: begin
17403:   SIRegister_EAssertionFailedError(CL);
17404:   CL.AddTypeS('TTestStep', '( stSetUp, stRunTest, stTearDown, stNothing )');
17405:   CL.AddTypeS('TRunMethod', 'Procedure');
17406:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TTestResult');
17407:   SIRegister_TTest(CL);
17408:   SIRegister_TAssert(CL);
17409:   SIRegister_TTestFailure(CL);
17410:   SIRegister_ITestListener(CL);
17411:   SIRegister_TTestCase(CL);
17412:   //CL.AddTypeS('TTestCaseClass', 'class of TTestCase');
17413:   SIRegister_TTestSuite(CL);
17414:   SIRegister_TTestResult(CL);
17415:   Function ComparisonMsg( const aExpected : string; const aActual : string) : string');
17416: end;
17417:
17418: procedure SIRegister_cTCPBuffer(CL: TPSPascalCompiler);
17419: begin
17420:   TOBJECT', 'ETCPBuffer');
17421:   TTCPBuffer', 'record Ptr : TObject; Size : Integer; Max : Integer;
17422:     +r; Head : Integer; Used : Integer; end');
17423:   'ETHERNET_MTU_100MBIT','LongInt').SetInt( 1500);
17424:   'ETHERNET_MTU_1GBIT','LongInt').SetInt( 9000);
17425:   'TCP_BUFFER_DEFAULTMAXSIZE','Longint').SetInt( ETHERNET_MTU_1GBT * 4);
17426:   'TCP_BUFFER_DEFAULTBUFSIZE','Longint').SetInt( ETHERNET_MTU_100MBIT * 4);
17427:   Procedure TCPBufferInitialise(var TCPBuf:TTCPBuffer;const TCPBufMaxSize:Int;const TCPBufSize:Int);
17428:   Procedure TCPBufferFinalise( var TCPBuf : TTCPBuffer)');
17429:   Procedure TCPBufferPack( var TCPBuf : TTCPBuffer)');
17430:   Procedure TCPBufferResize( var TCPBuf : TTCPBuffer; const TCPBufSize : Integer)');
17431:   Procedure TCPBufferExpand( var TCPBuf : TTCPBuffer; const Size : Integer)');
17432:   Procedure TCPBufferShrink( var TCPBuf : TTCPBuffer)');
17433:   Function TCPBufferAddPtr( var TCPBuf : TTCPBuffer; const Size : Integer) : Pointer');
17434:   Procedure TCPBufferAddBuf( var TCPBuf : TTCPBuffer; const Buf : string; const Size : Integer)');
17435:   Function TCPBufferPeekPtr( const TCPBuf : TTCPBuffer; var BufPtr : Pointer) : Integer');
17436:   Function TCPBufferPeek( var TCPBuf : TTCPBuffer; var Buf: string; const Size:Integer): Integer');
17437:   Function TCPBufferRemove( var TCPBuf : TTCPBuffer;var Buf: string; const Size:Integer): Integer');
17438:   Procedure TCPBufferClear( var TCPBuf : TTCPBuffer)');
17439:   Function TCPBufferDiscard( var TCPBuf : TTCPBuffer; const Size : Integer) : Integer');
17440:   Function TCPBufferUsed( const TCPBuf : TTCPBuffer) : Integer');

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17441: Function TCPBufferEmpty( const TCPBuf : TTCPBuffer ) : Boolean';
17442: Function TCPBufferAvailable( const TCPBuf : TTCPBuffer ) : Integer';
17443: Function TCPBufferPtr( const TCPBuf : TTCPBuffer ) : Pointer';
17444: Procedure TCPBufferSetMaxSize( var TCPBuf : TTCPBuffer; const MaxSize : Integer );
17445: end;
17446:
17447: procedure SIRegister_Glut(CL: TPSPascalCompiler);
17448: begin
17449: //CL.AddTypeS('PInteger', '^Integer // will not work');
17450: //CL.AddTypeS('PPChar', '^PChar // will not work');
17451: CL.AddConstantN('GLUT_API_VERSION','LongInt').SetInt( 3 );
17452: CL.AddConstantN('GLUT_XLIB_IMPLEMENTATION','LongInt').SetInt( 12 );
17453: CL.AddConstantN('GLUT_RGB','LongInt').SetInt( 0 );
17454: CL.AddConstantN('GLUT_GAME_MODE_REFRESH_RATE','LongInt').SetInt( 5 );
17455: CL.AddConstantN('GLUT_GAME_MODE_DISPLAY_CHANGED','LongInt').SetInt( 6 );
17456: Procedure LoadGlut( const dll : String );
17457: Procedure FreeGlut();
17458: end;
17459:
17460: procedure SIRegister_LEDBitmaps(CL: TPSPascalCompiler);
17461: begin
17462: CL.AddTypeS('TLEDColor', '( ledcGreen, ledcRed, ledcGray )');
17463: Function GetLEDBitmapHandle( Color : TLEDColor; State : Boolean ) : THandle';
17464: end;
17465:
17466: procedure SIRegister_SwitchLed(CL: TPSPascalCompiler);
17467: begin
17468: TLedColor', '( Aqua, Pink, Purple, Red, Yellow, Green, Blue, Orange, Black )';
17469: TTledState', '( LedOn, LedOff, LedDisabled )';
17470: SIRegister_TSwitchLed(CL);
17471: //CL.AddDelphiFunction('Procedure Register');
17472: end;
17473:
17474: procedure SIRegister_FileClass(CL: TPSPascalCompiler);
17475: begin
17476: CL.AddTypeS('TFileCreateDisposition', '( fdCreateAlways, fdCreateNew, fdOpenE'
17477: +'xisting, fdOpenAlways, fdTruncateExisting )');
17478: CL.AddTypeS('TFileAccess', '( faRead, faWrite, faReadWrite )');
17479: CL.AddTypeS('TFileSharing', '( fsNone, fsRead, fsWrite, fsReadWrite )');
17480: SIRegister_TCustomFile(CL);
17481: SIRegister_TIFile(CL);
17482: SIRegister_TMemoryFile(CL);
17483: SIRegister_TTextFileReader(CL);
17484: SIRegister_TTextFileWriter(CL);
17485: SIRegister_TFileMapping(CL);
17486: SIRegister_EFileError(CL);
17487: end;
17488:
17489: procedure SIRegister_FileUtilsClass(CL: TPSPascalCompiler);
17490: begin
17491: CL.AddTypeS('TFileAttributes', '( ffaReadOnly, ffaHidden, ffaSysFile, ffaVolumeID'
17492: +' , ffaDirectory, ffaArchive, ffaAnyFile )');
17493: CL.AddTypeS('TAttributeSet', 'set of TFileAttributes');
17494: SIRegister_TFileSearch(CL);
17495: end;
17496:
17497: procedure SIRegister_uColorFunctions(CL: TPSPascalCompiler);
17498: begin
17499: TRGBTType', 'record RedHex : string; GreenHex : string; BlueHex :'
17500: +' string; Red : integer; Green : integer; Blue : integer; end');
17501: Function FadeColor( aColor : Longint; aFade : integer ) : Tcolor');
17502: Function CountColor( aColor : Tcolor; CompareColor : Tcolor; AdjustVale:integer):Tcolor;
17503: end;
17504:
17505: procedure SIRegister_uSettings(CL: TPSPascalCompiler);
17506: begin
17507: Procedure SaveOscSettings());
17508: Procedure GetOscSettings();
17509: end;
17510:
17511: procedure SIRegister_cyDebug(CL: TPSPascalCompiler);
17512: begin
17513: TProcProcessEvent', 'Procedure ( Sender : TObject; Index : Integer )';
17514: RecProcess', 'record Name : ShortString; DurationMs : Cardinal; '
17515: + FirstDurationMs : Cardinal; LastDurationMs : Cardinal; MinDurationMs : Int'
17516: +' 64; MaxDurationMs : Cardinal; MarksCount : Integer; ArrayMarks : array of '
17517: + Cardinal; EnterCount : Integer; ExitCount : Integer; end');
17518: SIRegister_TcyDebug(CL);
17519: end;
17520:
17521: (*-----*)
17522: procedure SIRegister_cyCopyFiles(CL: TPSPascalCompiler);
17523: begin
17524: TCopyFileResult', '( cfCreate, cfOverwrite, cfNoNeed, cfForceDirectoryError, cfCopyError )';
17525: TCopyFileExists', '( feDoNothing, feCopy, feCopyIfModified, feCopyIfMoreRecent )';
17526: TCopyFileNotExists', '( fnDoNothing, fnCopy, fnCopyForceDir )';
17527: SIRegister_TdestinationOptions(CL);
17528: TProcCustomCopyFileEvent', 'Procedure ( Sender : TObject; var CopyFileResult : TCopyFileResult )';
17529: TProcOnCopyFileProgressEvent', 'Procedure(Sender:TObject;FileBytes,
TransferredBytes:int64;PercentDone:Int64);
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17530: TProcOnCustomSetFileDestination', 'Procedure ( Sender : TObject; var FileName : String)');
17531: SIRegister_TcyCopyFiles(CL);
17532: Function cyCopyFile(FromFile,ToFile: String; FileExists:TCopyFileExists;FileNotExists:TCopyFileNotExists;
ResetAttr:boolean): TCopyFileResult');
17533: Function cyCopyFileEx(FromFile,ToFile: String;FileExists: TCopyFileExists;FileNotExists
TCopyFileNotExists; ResetAttr:boolean; aProgressBar:TProgressBar): TCopyFileResult');
17534: Function cyCopyFilesEx(SourcePath, DestinationPath, IncludeFilters, ExcludeFilters : String; ArchiveFiles,
ReadOnlyFiles, HiddenFiles, SystemFiles : TcyFileAttributeMode; FileExists : TCopyFileExists;' +
FileNotExists: TCopyFileNotExists; SubFolders, ResetAttributes:Boolean) : Integer');
17535: end;
17536: 
17537: 
17538: procedure SIRegister_cySearchFiles(CL: TPSPascalCompiler);
17539: begin
17540:   CL.AddTypeS('TcyFileAttributeMode', '( faYes, faNo, faBoth )');
17541:   SIRegister_TcyFileAttributes(CL);
17542:   SIRegister_TSearcRecInstance(CL);
17543:   TOption', '( soOnlyDirs, soIgnoreAttributes, soIgnoreMaskInclude, soIgnoreMaskExclude )');
17544:   TOptions', 'set of TOption');
17545:   TSearchState', '( ssIdle, ssPaused, ssSearch, ssPausing, ssResuming, ssAborting )');
17546:   TProcOnValidateFileEvent Procedure(Sender:TObject;ValidMaskIncl,ValidMaskExcl,ValidAttrbs:bool;var
Accept:bool;
17547:     TProcOnValidateDirectoryEvent', 'Procedure(Sender:TObject;Directory:String;var Accept:boolean)');
17548:   SIRegister_TcyCustomSearchfiles(CL);
17549:   SIRegister_TcySearchFiles(CL);
17550:   Function FileNameRespondToMask( aFileName : String; aMask : String) : Boolean');
17551:   Function IscyFolder( aSRec : TSearchrec ) : Boolean');
17552: end;
17553: 
17554: procedure SIRegister_jcontrolutils(CL: TPSPascalCompiler);
17555: begin
17556:   Function jCountChar( const s : string; ch : char ) : integer');
17557:   Procedure jSplit( const Delimiter : char; Input : string; Strings : TStrings );
17558:   Function jNormalizeDate(const Value: string; theValue: TDateTime;const theFormat:string): string');
17559:   Function jNormalizeTime(const Value: string; theValue: TTime;const theFormat : string) : string');
17560:   Function jNormalizeDateTime(const Value:string;theValue:TDateTime;const theFormat:string):string');
17561:   Function jNormalizeDateSeparator( const s : string ) : string');
17562:   Function jIsValidDateString( const Value : string ) : boolean');
17563:   Function jIsValidTimeString( const Value : string ) : boolean');
17564:   Function jIsValidDateTimeString( const Value : string ) : boolean');
17565: end;
17566: 
17567: procedure SIRegister_kcMapView(CL: TPSPascalCompiler);
17568: begin
17569:   CL.AddClassN(CL.FindClass('TOBJECT'),'TMapView');
17570:   CL.AddTypeS('TMapViewSource', '( msNone, msGoogleNormal, msGoogleSatellite, msGoo' +
gleHybrid, msGooglePhysical, msGooglePhysicalHybrid, msOpenStreetMapMapnik' +
', msOpenStreetMapOsmarender, msOpenCycleMap, msVirtualEarthBing, msVirtual' +
'EarthRoad, msVirtualEarthAerial, msVirtualEarthHybrid, msYahooNormal, msYa' +
'hooSatellite, msYahooHybrid, msOviNormal, msOviSatellite, msOviHybrid, msOviPhysical )');
17571:   TArea', 'record top : Int64; left : Int64; bottom : Int64; right: Int64; end');
17572:   TRealArea', 'record top : Extended; left : Extended; bottom : Extended; right : Extended; end');
17573:   TIntPoint', 'record X : Int64; Y : Int64; end');
17574:   TkcRealPoint', 'record X : Extended; Y : Extended; end');
17575:   TOnBeforeDownloadEvent', 'Procedure ( Url : string; str : TStream; var CanHandle : Boolean)');
17576:   TOnAfterDownloadEvent', 'Procedure ( Url : string; str : TStream)');
17577:   SIRegister_TCustonDownloadEngine(CL);
17578:   SIRegister_TCustomGeolocationEngine(CL);
17579:   SIRegister_TMapView(CL);
17580: end;
17581: 
17582: procedure SIRegister_cparserutils(CL: TPSPascalCompiler);
17583: begin
17584:   (*CL.AddDelphiFunction('Function isFunc( name : TNamePart ) : Boolean');*)
17585:   CL.AddDelphiFunction('Function isUnnamedFunc( name : TNamepart ) : Boolean');
17586:   Function isPtrToFunc( name : TNamePart ) : Boolean';
17587:   Function isFuncRetFuncPtr( name : TNamePart ) : Boolean');
17588:   Function isPtrToFuncRetFuncPtr( name : TNamePart ) : Boolean');
17589:   Function GetFuncParam( name : TNamePart ) : TNamePart');
17590:   Function isArray( name : TNamePart ) : Boolean');
17591:   Function GetArrayPart( name : TNamePart ) : TNamePart');
17592:   Function GetIdFromPart( name : TNamePart ) : AnsiString');
17593:   Function GetIdPart( name : TNamePart ) : TNamePart');
17594:   Function isNamePartPtrToFunc( part : TNamePart ) : Boolean');
17595:   Function isAnyBlock( part : TNamePart ) : Boolean');*
17596:   CL.AddTypeS('TLineInfo', 'record linestart : Integer; lineend : Integer; end');
17597:   SIRegister_TLineBreaker(CL);
17598:   CL.AddTypeS('TNameKind', 'Integer');
17599:   CL.AddClassN(CL.FindClass('TOBJECT'),'TNamePart');
17600:   //CL.AddTypeS('TFuncParam', 'record prmtype : TEntity; name : TNamePart; end');
17601:   Function SphericalMod( X : Extended ) : Extended');
17602:   Function cSign( Value : Extended ) : Extended');
17603:   Function LimitFloat( const eValue, eMin, eMax : Extended ) : Extended');
17604:   Function AngleToRadians( iAngle : Extended ) : Extended');
17605:   Function RadiansToAngle( eRad : Extended ) : Extended');
17606:   Function Cross180( iLong : Double ) : Boolean');
17607:   Function Mod180( Value : integer ) : Integer');
17608:   Function Mod180Float( Value : Extended ) : Extended');
17609:   Function MulDivFloat( a, b, d : Extended ) : Extended');
17610:   Function LongDiff( iLong1, iLong2 : Double ) : Double');
17611: 
17612: 
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17615: Procedure Bmp_AssignFromPersistent( Source : TPersistent; Bmp : TbitMap)');
17616: Function Bmp_CreateFromPersistent( Source : TPersistent) : TbitMap');
17617: Function FixFilePath( const Inpath, CheckPath : string) : string');
17618: Function UnFixFilePath( const Inpath, CheckPath : string) : string');
17619: Procedure FillStringList( sl : TStringList; const aText : string)');
17620: end;
17621:
17622: procedure SIRegister_LedNumber(CL: TPSPPascalCompiler);
17623: begin
17624:   TLedSegmentSize', 'Integer');
17625:   TLedNumberBorderStyle', '( lnbNone, lnbSingle, lnbSunken, lnbRaised )');
17626:   SIRegister_TCustomLEDNumber(CL);
17627:   SIRegister_TLEDNumber(CL);
17628: end;
17629:
17630: procedure SIRegister_StStrL(CL: TPSPPascalCompiler);
17631: begin
17632:   CL.AddTypeS('LStrRec', 'record AllocSize : Longint; RefCount : Longint; Length : Longint; end');
17633:   CL.AddTypes('AnsiChar', 'Char');
17634:   CL.AddTypeS('BTable', 'array[0..255] of Byte'); //!!!
17635:   CL.AddDelphiFunction('Function HexBL( B : Byte) : AnsiString');
17636:   Function HexWL( W : Word) : AnsiString');
17637:   Function HexLL( L : LongInt) : AnsiString');
17638:   Function HexPTRL( P : __Pointer) : AnsiString');
17639:   Function BinaryBL( B : Byte) : AnsiString');
17640:   Function BinaryWL( W : Word) : AnsiString');
17641:   Function BinaryLL( L : LongInt) : AnsiString');
17642:   Function OctalBL( B : Byte) : AnsiString');
17643:   Function OctalWL( W : Word) : AnsiString');
17644:   Function OctalLL( L : LongInt) : AnsiString');
17645:   Function Str2Int16L( const S : AnsiString; var I : SmallInt) : Boolean');
17646:   Function Str2WordL( const S : AnsiString; var I : Word) : Boolean');
17647:   Function Str2LongL( const S : AnsiString; var I : LongInt) : Boolean');
17648:   Function Str2RealL( const S : AnsiString; var R : Double) : Boolean');
17649:   Function Str2RealL( const S : AnsiString; var R : Real) : Boolean');
17650:   Function Str2ExtL( const S : AnsiString; var R : Extended) : Boolean');
17651:   Function Long2StrL( L : LongInt) : AnsiString');
17652:   Function Real2StrL( R : Double; Width : Byte; Places : ShortInt) : AnsiString');
17653:   Function Ext2StrL( R : Extended; Width : Byte; Places : ShortInt) : AnsiString');
17654:   Function ValPrepL( const S : AnsiString) : AnsiString');
17655:   Function CharStrL( C : Char; Len : Cardinal) : AnsiString');
17656:   Function PadChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString');
17657:   Function PadLL( const S : AnsiString; Len : Cardinal) : AnsiString');
17658:   Function LeftPadChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString');
17659:   Function LeftPadL( const S : AnsiString; Len : Cardinal) : AnsiString');
17660:   Function TrimLeadL( const S : AnsiString) : AnsiString');
17661:   Function TrimTrailL( const S : AnsiString) : AnsiString');
17662:   Function TrimL( const S : AnsiString) : AnsiString');
17663:   Function TrimSpacesL( const S : AnsiString) : AnsiString');
17664:   Function CenterChL( const S : AnsiString; C : AnsiChar; Len : Cardinal) : AnsiString');
17665:   Function CenterL( const S : AnsiString; Len : Cardinal) : AnsiString');
17666:   Function EntabL( const S : AnsiString; TabSize : Byte) : AnsiString');
17667:   Function DetabL( const S : AnsiString; TabSize : Byte) : AnsiString');
17668:   Function ScrambleL( const S, Key : AnsiString) : AnsiString');
17669:   Function SubstituteL( const S, FromStr,ToStr : AnsiString) : AnsiString');
17670:   Function FilterL( const S, Filters : AnsiString) : AnsiString');
17671:   Function CharExistsL( const S : AnsiString; C : AnsiChar) : Boolean');
17672:   Function CharCountL( const S : AnsiString; C : AnsiChar) : Cardinal');
17673:   Function WordCountL( const S, WordDelims : AnsiString) : Cardinal');
17674:   Function WordPositionL( N : Cardinal; const S, WordDelims : AnsiString; var Pos : Cardinal) : Boolean');
17675:   Function ExtractWordL( N : Cardinal; const S, WordDelims : AnsiString) : AnsiString');
17676:   Function AsciiCountL( const S, WordDelims : AnsiString; Quote : AnsiChar) : Cardinal');
17677:   Function AsciiPositionL(N: Cardinal;const S,WordDelims:AnsiString;Quote:AnsiChar;var Pos:Cardinal):Bool;
17678:   Function ExtractAsciiL( N : Cardinal; const S, WordDelims : AnsiString; Quote : AnsiChar) : AnsiString');
17679:   Procedure WordWrapL(const InSt:AnsiString;var OutSt,Overlap:AnsiString;Margin:Cardinal;PadToMargin:Bool;
17680:   Procedure WordWrap(const InSt:AnsiString;var OutSt,Overlap:AnsiString;Margin:Cardinal;PadToMargin:Bool;
17681:   Function CompStringL( const S1, S2 : AnsiString) : Integer');
17682:   Function CompUCStringL( const S1, S2 : AnsiString) : Integer');
17683:   Function SoundexL( const S : AnsiString) : AnsiString');
17684:   Function MakeLetterSetL( const S : AnsiString) : Longint');
17685:   Procedure BMMakeTableL( const MatchString : AnsiString; var BT : BTable)');
17686:   Function BMSearchL(var Buffer,BufLength:Cardinal;var BT:BTable;const MatchString:AnsiString;var
Pos:Card):Bool;
17687:   Function BMSearchUCL( var Buffer, BufLength : Cardinal; var BT : BTable; const MatchString : AnsiString;
var Pos : Cardinal) : Boolean');
17688:   Function DefaultExtensionL( const Name, Ext : AnsiString) : AnsiString');
17689:   Function ForceExtensionL( const Name, Ext : AnsiString) : AnsiString');
17690:   Function JustFilenameL( const PathName : AnsiString) : AnsiString');
17691:   Function JustNameL( const PathName : AnsiString) : AnsiString');
17692:   Function JustExtensionL( const Name : AnsiString) : AnsiString');
17693:   Function JustPathnameL( const PathName : AnsiString) : AnsiString');
17694:   Function AddBackSlashL( const DirName : AnsiString) : AnsiString');
17695:   Function CleanPathNameL( const PathName : AnsiString) : AnsiString');
17696:   Function HasExtensionL( const Name : AnsiString; var DotPos : Cardinal) : Boolean');
17697:   Function CommaizeL( L : Longint) : AnsiString');
17698:   Function CommaizeChL( L : Longint; Ch : AnsiChar) : AnsiString');
17699:   Function FloatFormL(const Mask:AnsiString;R:TstFloat;const LtCurr:AnsiString;Sep,
DecPt:Char):AnsiString;
17700:   Function LongIntFormL(const Mask:AnsiString;L:LongInt;const LtCurr,
RtCurr:AnsiString;Sep:Char):AnsiString);

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17701: Function StrChPosL( const P : AnsiString; C : AnsiChar; var Pos : Cardinal) : Boolean';
17702: Function StrStPosL( const P, S : AnsiString; var Pos : Cardinal) : Boolean');
17703: Function StrStCopyL( const S : AnsiString; Pos, Count : Cardinal) : AnsiString');
17704: Function StrChInsertL( const S : AnsiString; C : AnsiChar; Pos : Cardinal) : AnsiString');
17705: Function StrStInsertL( const S1, S2 : AnsiString; Pos : Cardinal) : AnsiString');
17706: Function StrChDeleteL( const S : AnsiString; Pos : Cardinal) : AnsiString');
17707: Function StrStDeleteL( const S : AnsiString; Pos, Count : Cardinal) : AnsiString');
17708: Function ContainsOnlyL( const S, Chars : AnsiString; var BadPos : Cardinal) : Boolean');
17709: Function ContainsOtherThanL( const S, Chars : AnsiString; var BadPos : Cardinal) : Boolean');
17710: Function CopyLeftL( const S : AnsiString; Len : Cardinal) : AnsiString');
17711: Function CopyMidL( const S : AnsiString; First, Len : Cardinal) : AnsiString');
17712: Function CopyRightL( const S : AnsiString; First : Cardinal) : AnsiString');
17713: Function CopyRightAbsL( const S : AnsiString; NumChars : Cardinal) : AnsiString');
17714: Function CopyFromNthWordL(const S,WordDelims:AString;const AWord:AString;N:Cardinal;var
SubString:AString):Bool;
17715: Function CopyFromToWordL(const S,WordDelims,Word1,Word2:AnsiString;N1,N2:Cardinal;var
SubString:AnsiString):Bool;
17716: Function CopyWithinL( const S, Delimiter : AnsiString; Strip : Boolean) : AnsiString');
17717: Function DeleteFromNthWordL( const S, WordDelims : AnsiString; const AWord : AnsiString; N : Cardinal;
var SubString : AnsiString) : Boolean');
17718: Function DeleteFromToWordL( const S, WordDelims, Word1, Word2 : AnsiString; N1, N2 : Cardinal; var
SubString : AnsiString) : Boolean');
17719: Function DeleteWithinL( const S, Delimiter : AnsiString) : AnsiString');
17720: Function ExtractTokensL(const S,
Delims:AnsiString;QuoteChar:AnsiChar;AllowNulls:Bool;Tokens:TStrings):Cardinal;
17721: Function IsChAlphaL( C : AnsiChar ) : Boolean');
17722: Function IsChNumericL( C : AnsiChar; const Numbers : AnsiString ) : Boolean');
17723: Function IsChAlphaNumericL( C : AnsiChar; const Numbers : AnsiString ) : Boolean');
17724: Function IsStrAlphaL( const S : AnsiString ) : Boolean');
17725: Function IsStrNumericL( const S, Numbers : AnsiString ) : Boolean');
17726: Function IsStrAlphaNumericL( const S, Numbers : AnsiString ) : Boolean');
17727: Function KeepCharsL( const S, Chars : AnsiString ) : AnsiString');
17728: Function LastWordL( const S, WordDelims, AWord : AnsiString; var Position : Cardinal ) : Boolean');
17729: Function LastWordAbsL( const S, WordDelims : AnsiString; var Position : Cardinal ) : Boolean');
17730: Function LastStringL( const S, AString : AnsiString; var Position : Cardinal ) : Boolean');
17731: Function LeftTrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17732: Function ReplaceWordL(const S, WordDelims,OldWord,NewWord:AnsiString;N:Card;var
Replacements:Card):AnsiString;
17733: Function ReplaceWordAllL(const S,WordDelims,OldWord,NewWord:AnsiString;var
Replacements:Cardinal):AnsiString');
17734: Function ReplaceStringL(const S,OldString,NewString:AnsiString;N:Cardinal;var
Replacements:Cardinal):AnsiString;
17735: Function ReplaceStringAllL(const S,OldString,NewString:AnsiString; var Replacements:Cardinal):AnsiString;
17736: Function RepeatStringL(const RepeatString:AnsiString;var Repetitions:Cardinal;MaxLen:Cardinal):AnsiString;
17737: Function RightTrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17738: Function StrWithinL( const S, SearchStr : string; Start : Cardinal; var Position : Cardinal ) : boolean');
17739: Function TrimCharsL( const S, Chars : AnsiString ) : AnsiString');
17740: Function WordPosL(const S,WordDelims,AWord: AnsiString;N:Cardinal;var Position:Cardinal):Bool;
17741: Function WordPos(const S,WordDelims,AWord:AnsiString;N:Cardinal;var Position:Cardinal):Bool;
17742: end;
17743:
17744: procedure SIRegister_pwnative_out(CL: TPPSPascalCompiler);
17745: begin
17746: CL.AddConstantN('STDIN','LongInt').SetInt( 0 );
17747: ('STDOUT','LongInt').SetInt( 1 );
17748: ('STDERR','LongInt').SetInt( 2 );
17749: Procedure NativeWrite( s : astr );';
17750: Procedure NativeWrite1( PString : PChar );';
17751: Procedure NativeWrite2( Buffer : PChar; NumChars : Cardinal );';
17752: Procedure NativeWriteLn( s : astr );';
17753: Procedure NativeWriteLn1();';
17754: end;
17755:
17756: procedure SIRegister_synwrapl(CL: TPPSPascalCompiler);
17757: begin
17758: CL.AddTypeS(TSynwInfo', 'record Err : byte; UrlHtml : ansistring; ErrResponse
17759: : integer; UltimateURL : ansistring; Headers : ansistring; end ');
17760: CL.AddTypeS('TUrlInfo', 'record Err : byte; UltimateURL : string; end ');
17761: Function GetHttpFile( const Url, UserAgent, Outfile : string; verbose : boolean): TSynwInfo;';
17762: Function GetHttpFile1( const Url, UserAgent, Outfile : string ) : TSynwInfo;';
17763: Function GetHttpFile2( const Url, Outfile : string ) : TSynwInfo;';
17764: Function GetHttpFile3( const Url, outfile : string; verbose : boolean ) : TSynwInfo;');
17765: Function GetHtm( const Url : string ) : string;';
17766: Function GetHtm1( const Url, UserAgent : string ) : string;';
17767: Function GetUrl( const Url : string; verbose : boolean ) : TSynwInfo;';
17768: Function GetUrl1( const Url, useragent : string ) : TSynwInfo;';
17769: Function GetUrl2( const Url : string ) : TSynwInfo;';
17770: Function GetUrl3( const Url : string; const http : THTTPSend; verbose : boolean): TUrlInfo;';
17771: Function GetUrl4( const Url : string; const http : THTTPSend ) : TUrlInfo;');
17772: Procedure StrToStream( s : String; strm : TMemoryStream );
17773: Function StrLoadStream( strm : TStream ) : String';
17774:
17775: end;
17776:
17777: procedure SIRegister_HTMLUtil(CL: TPPSPascalCompiler);
17778: begin
17779: Function GetVal( const tag, attribname_ci : string ) : string';
17780: Function GetTagName( const Tag : string ) : string';
17781: Function GetUpTagName( const tag : string ) : string';

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17782: Function GetNameValPair( const tag, attribname_ci : string ) : string');
17783: Function GetValFromNameVal( const namevalpair : string ) : string');
17784: Function GetNameValPair_cs( const tag, attribname : string ) : string');
17785: Function GetVal_JAMES( const tag, attribname_ci : string ) : string');
17786: Function GetNameValPair_JAMES( const tag, attribname_ci : string ) : string');
17787: Function CopyBuffer( StartIndex : PChar; Len : integer ) : string');
17788: Function Ucase( s : string ) : string');
17789: end;
17790:
17791: procedure SIRegister_pwmain(CL: TPSPascalCompiler);
17792: begin
17793:   CL.AddConstantN('FUTURE_COOKIE','String').SetString( 'Mon, 01 Dec 2099 12:00:00 GMT');
17794:   EXPIRED_COOKIE,'String').SetString( 'Mon, 01 Jan 2001 12:00:00 GMT');
17795:   'SECURE_OFF','LongInt').SetInt( 0 );
17796:   'SECURE_ON','LongInt').SetInt( 2 );
17797:   'SECURE_FILTER','LongInt').SetInt( 3 );
17798:   THandle or DWord!
17799: //  astr = ansistring;
17800:   CL.AddTypeS('pastr', 'ansistring');
17801:   CL.AddTypeS('TFilterFunc', 'function(const s: pastr): pastr;');
17802: uses pwinit at begin
17803:   //type TFilterFunc = function(const s: astr): astr;
17804: Demo: ..\maxbox3\examples2\519_powtills.txt
17805:
17806: //CL.AddConstantN('CASE_SENSITIVE','Boolean')BoolToStr( false );
17807: //CL.AddConstantN('CASE_IGNORE','Boolean')BoolToStr( false );
17808: Procedure pwInit();
17809: Procedure OffReadln();
17810: Function Lcase( const s : pastr ) : pastr';
17811: Function Ucase( const s : pastr ) : pastr';
17812: Function CountPostVars : longword';
17813: Function GetPostVar( const name : pastr ) : pastr;');
17814: Function GetPostVar1( const name : pastr; filter : TFilterFunc ) : pastr;');
17815: Function GetPostVar_S( const name : pastr; Security : integer ) : pastr');
17816: Function GetPostVar_SF( const name : pastr; Security : integer ) : pastr');
17817: Function GetPostVarAsFloat( const name : pastr ) : double');
17818: Function GetPostVarAsInt( const name : pastr ) : longint');
17819: Function GetPostVar_SafeHTML( const name : pastr ) : pastr');
17820: Function FetchPostVarName( idx : longword ) : pastr');
17821: Function FetchPostVarVal( idx : longword ) : pastr');
17822: Function FetchPostVarVal1( idx : longword; filter : TFilterFunc ) : pastr');
17823: Function FetchPostVarName_S( idx : longword; Security : integer ) : pastr');
17824: Function FetchPostVarVal_S( idx : longword; Security : integer ) : pastr');
17825: Function IsPostVar( const name : pastr ) : boolean');
17826: Function CountAny : longword');
17827: Function GetAny( const name : pastr ) : pastr');
17828: Function GetAny1( const name : pastr; filter : TFilterFunc ) : pastr');
17829: Function GetAny_S( const name : pastr; Security : integer ) : pastr');
17830: Function GetAnyAsFloat( const name : pastr ) : double');
17831: Function GetAnyAsInt( const name : pastr ) : longint');
17832: Function IsAny( const name : pastr ) : byte');
17833: Function CountCookies : longword');
17834: Function FetchCookieName( idx : longword ) : pastr');
17835: Function FetchCookieVal( idx : longword ) : pastr');
17836: Function FetchCookieVal1( idx : longword; filter : TFilterFunc ) : pastr');
17837: Function GetCookie( const name : pastr ) : pastr');
17838: Function GetCookie1( const name : pastr; filter : TFilterFunc ) : pastr');
17839: Function GetCookieAsFloat( const name : pastr ) : double');
17840: Function GetCookieAsInt( const name : pastr ) : longint');
17841: Function IsCookie( const name : pastr ) : boolean');
17842: Function SetCookie( const name, value : pastr ) : boolean');
17843: Function SetCookieAsFloat( const name : pastr; value : double ) : boolean');
17844: Function SetCookieAsInt( const name : pastr; value : longint ) : boolean');
17845: Function SetCookieEx( const name, value, path, domain, expiry : pastr ) : boolean');
17846: Function SetCookieAsFloatEx( const name:pastr;value : double; const path, domain,expiry:pastr ):bool;
17847: Function SetCookieAsIntEx( const name:pastr;value : longint; const path, domain,expiry:pastr ):bool;
17848: Function UnsetCookie( const name : pastr ) : boolean');
17849: Function UnsetCookieEx( const name, path, domain : pastr ) : boolean');
17850: Function FilterHtml( const input : pastr ) : pastr');
17851: Function FilterHtml_S( const input : pastr; security : integer ) : pastr');
17852: Function TrimBadChars( const input : pastr ) : pastr');
17853: Function TrimBadFile( const input : pastr ) : pastr');
17854: Function TrimBadDir( const input : pastr ) : pastr');
17855: Function TrimBad_S( const input : pastr; security : integer ) : pastr');
17856: Function CountHeaders : longword');
17857: Function FetchHeaderName( idx : longword ) : pastr');
17858: Function FetchHeaderVal( idx : longword ) : pastr');
17859: Function GetHeader( const name : pastr ) : pastr');
17860: Function IsHeader( const name : pastr ) : boolean');
17861: Function SetHeader( const name, value : pastr ) : boolean');
17862: Function UnsetHeader( const name : pastr ) : boolean');
17863: Function PutHeader( const header : pastr ) : boolean');
17864: Procedure Out1( const s : pastr );
17865: Procedure OutLn( const s : pastr );
17866: Procedure OutA( args : array of const );
17867: Procedure OutF( const s : pastr );
17868: Procedure OutLnF( const s : pastr );
17869: Procedure OutFF( const s : pastr );
17870: Procedure OutF_FI( const s : pastr; HTMLFilter : boolean );

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17871: Procedure OutLnFF( const s : pastr');
17872: Procedure OutLnF_FI( const s : pastr; HTMLFilter : boolean');
17873: Function FileOut( const fname : pastr) : word';
17874: Function ResourceOut( const fname : pastr) : word');
17875: Procedure BufferOut( const buff, len : LongWord)');
17876: Function TemplateOut( const fname : pastr; HtmlFilter : boolean) : word;');
17877: Function TemplateOut1( const fname : pastr) : word');
17878: Function TemplateOut2( const fname : pastr; filter : TFilterFunc) : word');
17879: Function TemplateOut3( const fname : pastr; HtmlFilter : boolean) : word');
17880: Function TemplateRaw( const fname : pastr) : word');
17881: Function Fmt( const s : pastr) : pastr');
17882: Function Fmt1( const s : pastr; filter : TFilterFunc) : pastr');
17883: Function FmtFilter( const s : pastr) : pastr');
17884: Function Fmt_SF( const s:pastr;HTMLFilter:bool;filter:TFilterFunc;FilterSecurity:int):pastr;
17885: Function Fmt_SF1( const s:pastr; HTMLFilter:boolean; FilterSecurity, TrimSecurity : integer) : pastr');
17886: Function CountRtiVars : longword');
17887: Function FetchRtiName( idx : longword) : pastr');
17888: Function FetchRtiVal( idx : longword) : pastr');
17889: Function GetRti( const name : pastr) : pastr');
17890: Function GetRtiAsFloat( const name : pastr) : double');
17891: Function GetRtiAsInt( const name : pastr) : longint');
17892: Function IsRti( const name : pastr) : boolean');
17893: Procedure SetRTI( const name, value : pastr)');
17894: Function FetchUpfileName( idx : longword) : pastr');
17895: Function GetUpfileName( const name : pastr) : pastr');
17896: Function GetUpfileSize( const name : pastr) : longint');
17897: Function GetUpFileType( const name : pastr) : pastr');
17898: Function CountUpfiles : longword');
17899: Function IsUpfile( const name : pastr) : boolean');
17900: Function SaveUpfile( const name, fname : pastr) : boolean');
17901: Function CountVars : longword');
17902: Function FetchVarName( idx : longword) : pastr');
17903: Function FetchVarVal( idx : longword) : pastr');
17904: Function FetchVarVall( idx : longword; filter : TFilterFunc) : pastr');
17905: Function GetVar( const name : pastr) : pastr');
17906: Function GetVar( const name : pastr; filter : TFilterFunc) : pastr');
17907: Function GetVar_S( const name : pastr; security : integer) : pastr');
17908: Function GetVarAsFloat( const name : pastr) : double');
17909: Function GetVarAsInt( const name : pastr) : longint');
17910: Procedure SetVar( const name, value : pastr)');
17911: Procedure SetVarAsFloat( const name : pastr; value : double)');
17912: Procedure SetVarAsInt( const name : pastr; value : longint)');
17913: Function IsVar( const name : pastr) : byte');
17914: Procedure UnsetVar( const name : pastr)');
17915: Function LineEndToBR( const s : pastr) : pastr');
17916: Function RandomStr( len : longint) : pastr');
17917: Function XorCrypt( const s : pastr; key : byte) : pastr');
17918: Function CountCfgVars : longword');
17919: Function FetchCfgVarName( idx : longword) : pastr');
17920: Function FetchCfgVarVal( idx : longword) : pastr');
17921: Function IsCfgVar( const name : pastr) : boolean');
17922: Function SetCfgVar( const name, value : pastr) : boolean');
17923: Function GetCfgVar( const name : pastr) : pastr');
17924: Procedure ThrowErr( const s : pastr)');
17925: Procedure ThrowWarn( const s : pastr)');
17926: Procedure ErrWithHeader( const s : pastr)');
17927: CL.AddTypeS('TWebVar', 'record name : pastr; value : pastr; end');
17928: CL.AddTypeS('TWebVars', 'array of TWebVar');
17929: Function iUpdateWebVar(var webv : TWebVars; const name, value:pastr; upcased:boolean):boolean';
17930: Function iAddWebCfgVar( const name, value : pastr) : boolean');
17931: Procedure iAddWebVar( var webv : TWebVars; const name, value : pastr)');
17932: Procedure iSetRTI( const name, value : pastr)');
17933: Function iCustomSessUnitSet : boolean');
17934: Function iCustomCfgUnitSet : boolean');
17935: end;
17936:
17937: procedure SIRegister_W32VersionInfo(CL: TPPascalCompiler);
17938: begin
17939:   SIRegister_TProjectVersionInfo(CL);
17940:   CL.AddDelphiFunction('Function MSLanguageToHex( const s : string) : string');
17941:   Function MSHexToLanguage( const s : string) : string');
17942:   Function MSCharacterSetToHex( const s : string) : string');
17943:   Function MSHexToCharacterSet( const s : string) : string');
17944:   Function MSLanguages : TStringList');
17945:   Function MSHexLanguages : TStringList');
17946:   Function MSCharacterSets : TStringList');
17947:   Function MSHexCharacterSets : TStringList');
17948: end;
17949:
17950: procedure SIRegister_IpUtils(CL: TPPascalCompiler);
17951: begin
17952:   TIpHandle', 'Cardinal');
17953:   TIpMD5StateArray', 'array[0..3] of DWORD');
17954:   CL.AddTypeS('TIpMD5CountArray', 'array[0..1] of DWORD');
17955:   TIpMD5ByteBuf', 'array[0..63] of Byte');
17956:   TIpMD5LongBuf', 'array[0..15] of DWORD');
17957:   TIpMD5Digest', 'array[0..15] of Byte');
17958:   TIpLineTerminator', '( ltNone, ltCR, ltLF, ltCRLF, ltOther )');
17959:   TIpMD5Context', 'record State : TIpMD5StateArray; Count : TIpMD5'

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17960: +'CountArray; ByteBuf : TIpMD5ByteBuf; end');
17961: CL.AddClassN(CL.FindClass('TOBJECT'), 'EIipBaseException');
17962: CL.AddClassN(CL.FindClass('TOBJECT'), 'EIipAccessException');
17963: CL.AddClassN(CL.FindClass('TOBJECT'), 'EIipHtmlException');
17964: SIRegister_TIpBaseAccess(CL);
17965: SIRegister_TIpBasePersistent(CL);
17966: //TIPComponentClass', 'class of TIpBaseComponent');
17967: SIRegister_TIpBaseComponent(CL);
17968: SIRegister_TIpBaseWinControl(CL);
17969: Function InClassA( Addr : LongInt ) : Boolean';
17970: Function InClassB( Addr : LongInt ) : Boolean';
17971: Function InClassC( Addr : LongInt ) : Boolean';
17972: Function InClassD( Addr : LongInt ) : Boolean';
17973: Function InMulticast( Addr : LongInt ) : Boolean';
17974: Function IpCharCount( const Buffer, BufSize : DWORD; C : AnsiChar ) : DWORD';
17975: Function IpComStruct( const S1, S2, Size : Cardinal ) : Integer';
17976: Function IpMaxInt( A, B : Integer ) : Integer';
17977: Function IpMinInt( A, B : Integer ) : Integer';
17978: Procedure IpSafeFree( var Obj: TObject );
17979: Function IpShortVersion : string';
17980: Function IpInternetSumPrim( var Data, DataSize, CurCrc : DWORD ) : DWORD';
17981: Function IpInternetSumOfStream( Stream : TStream; CurCrc : DWORD ) : DWORD';
17982: Function IpInternetSumOfFile( const FileName : string ) : DWORD';
17983: Function MD5SumOfFile( const FileName : string ) : string';
17984: Function MD5SumOfStream( Stream : TStream ) : string';
17985: Function MD5SumOfStreamDigest( Stream : TStream ) : TIpMD5Digest';
17986: Function MD5SumOfString( const S : string ) : string';
17987: Function MD5SumOfStringDigest( const S : string ) : TIpMD5Digest';
17988: Function SafeYield : LongInt';
17989: Function AllTrimSpaces( Strng : string ) : string';
17990: Function IpCharPos( C : AnsiChar; const S : string ) : Integer';
17991: Function CharPosIdx( C : AnsiChar; const S : string; Idx : Integer ) : Integer';
17992: Function NthCharPos( C : AnsiChar; const S : string; Nth : Integer ) : Integer';
17993: Function RCharPos( C : AnsiChar; const S : string ) : Integer';
17994: Function RCharPosIdx( C : AnsiChar; const S : string; Idx : Integer ) : Integer';
17995: Function RNthCharPos( C : AnsiChar; const S : string; Nth : Integer ) : Integer';
17996: Function IpRPos( const Substr : string; const S : string ) : Integer';
17997: Function IpPosIdx( const SubStr, S : string; Idx : Integer ) : Integer';
17998: ACharSet', 'set of AnsiChar');
17999: TipAddrRec', 'record Scheme : string; UserName : string; Password string; Authority : string;
18000: Port : string; Path : string; Fragment : string; Query : string; QueryDelim : AnsiChar; end');
18001: Procedure Initialize( var AddrRec : TipAddrRec );
18002: Procedure Finalize( var AddrRec : TipAddrRec );
18003: Function ExtractEntityName( const NamePath : string ) : string';
18004: Function ExtractEntityPath( const NamePath : string ) : string';
18005: Function IpParseURL( const URL : string; var Rslt : TipAddrRec ) : Boolean';
18006: Function BuildURL( const OldURL, NewURL : string ) : string';
18007: Function PutEscapes( const S : string; EscapeSet : ACharSet ) : string';
18008: Function RemoveEscapes( const S : string; EscapeSet : ACharSet ) : string';
18009: Procedure SplitParams( const Params : string; Dest : TStrings );
18010: Function NetToDOSPath( const PathStr : string ) : string';
18011: Function DOSToNetPath( const PathStr : string ) : string';
18012: Procedure SplitHttpResponse( const S : string; var V, MsgID, Msg : string );
18013: Procedure FieldFix( Fields : TStrings );
18014: Function AppendSlash( APath : string ) : string';
18015: Function RemoveSlash( APath : string ) : string';
18016: Function GetParentPath( const Path : string ) : string';
18017: Function GetLocalContent( const TheFileName : string ) : string';
18018: Function IPDirExists( Dir : string ) : Boolean';
18019: Function GetTemporaryFile( const Path : string ) : string';
18020: Function GetTemporaryPath : string';
18021: Function AppendBackSlash( APath : string ) : string';
18022: Function IpRemoveBackSlash( APath : string ) : string';
18023: Function INetDateToStrToDate( const DateStr : string ) : TDateTime';
18024: Function DateToString( Date : TDateTime ) : string';
18025: Function IpTimeZoneBias : Integer';
18026: Procedure SplitCookieFields( const Data : string; Fields : TStrings );
18027: end;
18028:
18029: procedure SIRegister_LrtPoTools(CL: TPSPascalCompiler);
18030: begin
18031: CL.AddTypeS('TPOStyle', '( postStandard, postPropertyName, postFull )');
18032: Procedure Lrt2Po( const LRTFile : string; PStyle : TPOStyle );
18033: Procedure CombinePoFiles( SL : TStrings; const FName : string );
18034: end;
18035:
18036: procedure SIRegister_GPS(CL: TPSPascalCompiler);
18037: begin
18038: CL.AddConstantN('MAX_SATS','LongInt').SetInt( 12 );
18039: GPSMSG_START', 'String').SetString( '$' );
18040: GPSMSG_STOP', 'string').SetString( '*' );
18041: SEC_BETWEEN_SEG', 'LongInt').SetInt( 5 );
18042: CL.AddTypeS('TSatellite', 'record Identification : Shortint; Elevation : Shor
18043: +tint; Azimut : Smallint; SignLevel : Smallint; end');
18044: CL.AddTypeS('TSatellites', 'array[1..12] of TSatellite');
18045: //TSatellites = array[1..MAX_SATS] of TSatellite;
18046: TGPSSatEvent', 'Procedure ( Sender : TObject; NbSat, NbSatUse: Shortint; Sats : TSatellites )');
18047: TGPSDatas', 'record Latitude : Double; Longitude : Double; Heigh
18048: tAboveSea : Double; Speed : Double; UTCTime : TDateTime; Valid : Boolean; '

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18049: NbrSats : Shortint; NbrSatsUsed : Shortint; Course : Double; end');
18050: CL.AddTypeS('TGPSDatasEvent', 'Procedure ( Sender : TObject; GPSDatas : TGPSDatas)');
18051: CL.AddTypeS('TMsgGP', '( msgGP, msgGPGGA, msgGPGLL, msgGPGSV, msgGPRMA, msgGPRMC, msgGPZDA )');
18052: CL.AddTypeS('TSpeedUnit', '( suKilometre, suMile, suNauticalMile )');
18053: SIRegister_TGPSLink(CL);
18054: SIRegister_TCustomGPS(CL);
18055: SIRegister_TGPS(CL);
18056: SIRegister_TGPSToGPX(CL);
18057: SIRegister_TGPSSpeed(CL);
18058: SIRegister_TGPSSatellitesPosition(CL);
18059: SIRegister_TGPSSatellitesReception(CL);
18060: SIRegister_TGPSCCompass(CL);
18061: //CL.AddDelphiFunction('Procedure Register( )');
18062: Function IndexMsgGP( StrMsgGP : String ) : TMsgGP';
18063: Function StrCoordToAngle( Point : Char; Angle : String ) : Double';
18064: Function StrTimeToTime( const Time : String ) : TDateTime';
18065: Function StrToInteger( const Str : String ) : Integer';
18066: Function StrToReal( const Str : String ) : Extended';
18067: Function GPSRotatePoint( Angle : Double; Ct, Pt : TPoint ) : TPoint';
18068: Procedure LoadRessource( RessourceName : String; ImageList : TImageList );
18069: end;
18070:
18071: procedure SIRegister_NMEA(CL: TPSPascalCompiler);
18072: begin
18073: NMEADataArray', 'array of string');
18074: Procedure TrimNMEA( var S : string );
18075: Procedure ExpandNMEA( var S : string );
18076: Function ParseNMEA( S : string ) : NMEADataArray';
18077: Function ChkValidNMEA( S : string ) : Boolean';
18078: Function IdNMEA( S : string ) : string';
18079: Function ChkSumNMEA( const S : string ) : string';
18080: Function PosInDeg( const PosStr : string ) : Double';
18081: Function DateTimeNMEA( const StrD, StrT : string ) : TDateTime';
18082: Function SysClockSet( const StrD, StrT : string ) : Boolean';
18083: function Ticks2Secs(Ticks : LongInt) : LongInt';
18084: function Secs2Ticks(Secs : LongInt) : LongInt';
18085: function MSecs2Ticks(MSecs : LongInt) : LongInt';
18086: end;
18087:
18088: procedure SIRegister_SortUtils(CL: TPSPascalCompiler);
18089: begin
18090: CL.AddTypeS('SortType1', 'Byte');
18091: CL.AddTypeS('SortType2', 'Double');
18092: CL.AddTypeS('SortType3', 'DWord');
18093: //CL.AddTypeS('PDWordArray', '^DWordArray // will not work');
18094: CL.AddTypeS('TDataRecord4', 'record Value : Integer; Data : Integer; end');
18095: Function('Procedure QuickSort( var List : array of SortType1; Min, Max : Integer)');
18096: Procedure QuickSortDWord( var List : array of SortType3; Min, Max : Integer );
18097: Procedure QuickSortDataRecord4( var List : array of TDataRecord4; Count : Integer );
18098: Procedure HeapSort( var List : array of SortType1; Count : DWord; FirstNeeded : DWord );
18099: Function QuickSelect( var List : array of SortType1; Min, Max, Wanted : Integer ) : SortType1';
18100: Function QuickSelectDouble( var List : array of SortType2; Min, Max, Wanted : Integer ) : SortType2';
18101: Function QuickSelectDWord( var List : array of SortType3; Min, Max, Wanted : Integer ) : SortType3';
18102: end;
18103:
18104: procedure SIRegister_BitmapConversion(CL: TPSPascalCompiler);
18105: begin
18106: // TMatrix3x3 = array[1..3,1..3] of Double;
18107: // TMatrix4x4 = array[1..4,1..4] of Double;
18108: CL.AddTypeS('TMatrix3x31', 'array[1..3] of Double');
18109: CL.AddTypeS('TMatrix3x3', 'array[1..3] of TMatrix3x31');
18110: CL.AddTypeS('TMatrix4x41', 'array[1..4] of Double');
18111: CL.AddTypeS('TMatrix4x4', 'array[1..4] of TMatrix4x41');
18112: Procedure ColorTransform( A, B, C : Byte; out X, Y, Z : Byte; const T : TMatrix4x4 );
18113: Procedure ColorTransform1( A, B, C : Byte; out X, Y, Z : Float; const T : TMatrix4x4 );
18114: Procedure ColorTransform2( const A, B, C : Float; out X, Y, Z : Byte; const T : TMatrix4x4 );
18115: Procedure ColorTransformHSI2RGB( H, S, I : Byte; out R, G, B : Byte );
18116: Procedure ColorTransformRGB2HSI( R, G, B : Byte; out H, S, I : Byte );
18117: Procedure ColorTransformRGB2Lab( R, G, B : Byte; out L, a_, b_ : Byte );
18118: Procedure ColorTransformLab2RGB( L, a_, b_ : Byte; out R, G, B : Byte );
18119: Procedure ColorTransformRGB2LOCO( R, G, B : Byte; out S0, S1, S2 : Byte );
18120: Procedure ColorTransformLOCO2RGB( S0, S1, S2 : Byte; out R, G, B : Byte );
18121: Procedure ConvertColorSpace( Image : TLinarBitmap; const T : TMatrix4x4; NewImage : TLinarBitmap );
18122: //Procedure
18123: ConvertColorSpace1(Image:TLinarBitmap;ColorTransform:TColorTransformProc;NewImage:TLinarBitmap);
18124: Procedure ConvertToGrayscale( const Image, GrayImage : TLinarBitmap );
18125: Procedure ConvertToGrayscale1( const Image : TLinarBitmap );
18126:
18127: procedure SIRegister_ZDbcUtils(CL: TPSPascalCompiler);
18128: begin
18129: { TZSQLType = (zsqlstUnknown, zsqlstBoolean, zsqlstByte, zsqlstShort, zsqlstInteger, zsqlstLong,
18130: zsqlstFloat, zsqlstDouble, zsqlstBigDecimal, zsqlstString, zsqlstUnicodeString, zsqlstBytes,
18131: zsqlstDate, zsqlstTime, zsqlstTimestamp, zsqlstDataSet, zsqlstGUID,
18132: stAsciiStream, stUnicodeStream, stBinaryStream); }
18133: Function ResolveConnectionProtocol( Url : string; SupportedProtocols : TStringDynArray ) : string';
18134: //Procedure ResolveDatabaseUrl( const Url: string; Info:TStrings; var HostName:string; var
18135: Port:Integer;var Database : string; var UserName : string; var Password : string; ResultInfo : TStrings );
18136: Function CheckConversion( InitialType : TZSQLType; ResultType : TZSQLType ) : Boolean';

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18136: Function DefineColumnType( ColumnType : TZSQLType ) : string';
18137: Procedure RaisesSQLException( E : Exception );
18138: //Procedure CopyColumnInfo( FromList : TObjectList; ToList : TObjectList );
18139: Function ToLikeString( const Value : string ) : string';
18140: Function GetSQLHexWideString( Value : PChar; Len : Integer; ODBC : Boolean ) : WideString';
18141: Function GetSQLHexAansiString( Value : PChar; Len : Integer; ODBC : Boolean ) : RawByteString';
18142: Function GetSQLHexString( Value : PChar; Len : Integer; ODBC : Boolean ) : String';
18143: Function WideStringStream( const AString : WideString ) : TStream';
18144: function ConvertAdoToTypeName(FieldType: SmallInt): string';
18145: function GetTableName(const AField: TField): string';
18146: function GetFieldName(const AField: TField): string';
18147: end;
18148:
18149: procedure SIRegister_JclTD32(CL: TPSPascalCompiler);
18150:   CL.AddTypeS('TSymbolInfo', 'record Size : Word; SymbolType : Word; end');
18151: //CL.AddTypeS('PSymbolInfos', 'TSymbolInfos // will not work');
18152: SIRegister_TJclModuleInfo(CL);
18153: SIRegister_TJclLineInfo(CL);
18154: SIRegister_TJclSourceModuleInfo(CL);
18155: SIRegister_TJclSymbolInfo(CL);
18156: SIRegister_TJclProcSymbolInfo(CL);
18157: CL.AddClassN(CL.FindClass('TOBJECT'), 'TJclLocalProcSymbolInfo');
18158: CL.AddClassN(CL.FindClass('TOBJECT'), 'TJclGlobalProcSymbolInfo');
18159: SIRegister_TJclTD32InfoParser(CL);
18160: SIRegister_TJclTD32InfoScanner(CL);
18161: SIRegister_TJclPeBorTD32Image(CL);
18162: end;
18163:
18164: procedure SIRegister_JvIni(CL: TPSPascalCompiler);
18165: begin
18166:   CL.AddTypeS('TReadObjectEvent', 'Function ( Sender : TObject; const Section, '
18167:     + 'Item, Value : string ) : TObject');
18168:   TWriteObjectEvent', 'Procedure ( Sender : TObject; const Section, Item: string; Obj: TObject)');
18169:   Function StringToFontStyles( const Styles : string ) : TFontStyles';
18170:   Function FontStylesToString( Styles : TFontStyles ) : string';
18171:   Function FontToString( Font : TFont ) : string';
18172:   Procedure StringToFont( const Str : string; Font : TFont );
18173:   Function RectToStr( Rect : TRect ) : string';
18174:   Function StrToRect( const Str : string; const Def : TRect ) : TRect';
18175:   Function JPointToStr( P : TPoint ) : string';
18176:   Function JStrToPoint( const Str : string; const Def : TPoint ) : TPoint';
18177:   Function DefProfileName : string';
18178:   Function DefLocalProfileName : string';
18179:   CL.AddConstantN('idnListItem','String').SetString( 'Item');
18180: end;
18181:
18182: procedure SIRegister_JvHtControls(CL: TPSPascalCompiler);
18183: begin
18184:   Procedure ItemHtDrawEx( Canvas : TCanvas; Rect : TRect; const State : TOwnerDrawState; const Text : string; const HideSelColor : Boolean; var PlainItem : string; var Width : Integer; CalcWidth : Boolean );
18185:   Function ItemHtDraw( Canvas : TCanvas; Rect : TRect; const State : TOwnerDrawState; const Text : string; const HideSelColor : Boolean ) : string';
18186:   Function ItemHtWidth( Canvas : TCanvas; Rect : TRect; const State : TOwnerDrawState; const Text : string; const HideSelColor : Boolean ) : Integer';
18187:   Function ItemHtPlain( const Text : string ) : string';
18188:   Procedure ExecuteHyperlink(Sender:TObject;HyperLinkClick:TJvHyperLinkClickEvent;const LinkName:string);
18189:   Function IsHyperLink(Canvas:TCanvas;Rect:TRect;const Text:string;MouseX,MouseY:Integer;var HyperLink:string):Bool;
18190: end;
18191:
18192: procedure SIRegister_NeuralNetwork(CL: TPSPascalCompiler);
18193: begin
18194:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TNeuron');
18195:   CL.AddTypeS('TSynapse', 'record W : Real; Connection : TNeuron; end');
18196:   CL.AddTypeS('TAcson', 'record Alfa : Real; Beta : Real; Gama : Real; end');
18197:   SIRegister_TNeuron(CL);
18198:   SIRegister_TNeuronLayer(CL);
18199:   SIRegister_TNeuralNet(CL);
18200: end;
18201:
18202: procedure SIRegister_StExpr(CL: TPSPascalCompiler);
18203: begin
18204:   //CL.AddTypeS('PStFloat', '^TStFloat // will not work');
18205:   TStMethod0Param', 'Function : TStFloat');
18206:   TStMethod1Param', 'Function ( Value1 : TStFloat ) : TStFloat');
18207:   TStMethod2Param', 'Function ( Value1, Value2 : TStFloat ) : TStFloat');
18208:   TStMethod3Param', 'Function ( Value1, Value2, Value3 : TStFloat ) : TStFloat');
18209:   TStGetIdentValueEvent', 'Procedure ( Sender : TObject; const Ide'
18210:     + 'ntifier : AnsiString; var Value : TStFloat)');
18211:   TStToken', '( ssStart, ssInIdent, ssInNum, ssInSign, ssInExp, ss'
18212:     + 'Eol, ssNum, ssIdent, ssLPar, ssRPar, ssComma, ssPlus, ssMinus, ssTimes, ssDiv, ssEqual, ssPower )');
18213:   SIRegister_TStExpression(CL);
18214:   TStExprErrorEvent', 'Procedure ( Sender : TObject; ErrorNumber : '
18215:     + 'LongInt; const ErrorStr : AnsiString)');
18216:   SIRegister_TStExpressionEdit(CL);
18217:   Function AnalyzeExpr( const Expr : AnsiString ) : Double';
18218:   Procedure TpVal( const S : AnsiString; var V : Extended; var Code : Integer );
18219: end;
18220:

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18221: procedure SIRegister_GR32_Containers(CL: TPSPascalCompiler);
18222: begin
18223:   CL.AddConstantN('BUCKET_MASK','LongWord').SetUInt( $FF );
18224:   CL.AddConstantN('BUCKET_COUNT','LongInt').SetInt( BUCKET_MASK + 1 );
18225:   Procedure SmartAssign( Src, Dst : TPersistent; TypeKinds : TTypeKinds );
18226:   Procedure Advance( var Node : TLinkedNode; Steps : Integer );
18227: end;
18228:
18229: procedure SIRegister_StSaturn(CL: TPSPascalCompiler);
18230: begin
18231:   TStJupSatPos', 'record X: double; Y: Double; end');
18232:   TStJupSats', 'record Io: TStJupSatPos;
18233: Europa:TStJupSatPos;Ganymede:TStJupSatPos;Callisto:TStJupSatPos;end';
18234:   Function ComputeSaturn( JD : Double ) : TStEclipticalCord';
18235:   Function ComputePluto( JD : Double ) : TStEclipticalCord';
18236:   Function ComputeVenus( JD : Double ) : TStEclipticalCord';
18237:   Function ComputeMars( JD : Double ) : TStEclipticalCord';
18238:   Function ComputeMercury( JD : Double ) : TStEclipticalCord';
18239:   Function ComputeJupiter( JD : Double ) : TStEclipticalCord';
18240:   Function ComputeUranus( JD : Double ) : TStEclipticalCord';
18241:   Function ComputeNeptune( JD : Double ) : TStEclipticalCord';
18242:   function GetJupSats(JD : TDateTime; HighPrecision, Shadows : Boolean) : TStJupSats;');
18243: end;
18244: procedure SIRegister_JclParseUses(CL: TPSPascalCompiler);
18245: begin
18246:   CL.AddClassN(CL.FindClass('TOBJECT'),'EUsesListError');
18247:   Function CreateGoal( Text : PChar ) : TCustomGoal;
18248: end;
18249:
18250: procedure SIRegister_JvFinalize(CL: TPSPascalCompiler);
18251: begin
18252: //type
18253: //  TFinalizeProc = procedure;
18254:   CL.AddTypeS('TFinalizeProc', 'procedure');
18255:   Procedure AddFinalizeProc( const UnitName : string; FinalizeProc : TFinalizeProc );
18256:   Function AddFinalizeObject( const UnitName : string; Instance : TObject ) : TObject;
18257:   Function AddFinalizeObjectNil( const UnitName : string; var Reference: TObject ) : TObject;
18258:   Function AddFinalizeFreeAndNil( const UnitName : string; var Reference: TObject ) : TObject;
18259:   Function AddFinalizeMemory( const UnitName : string; Ptr : __Pointer ) : __Pointer;
18260:   Function AddFinalizeMemoryNil( const UnitName : string; var Ptr: __Pointer ) : __Pointer;
18261:   Procedure FinalizeUnit( const UnitName : string );
18262: end;
18263:
18264:
18265: function TRestRequest_createStringStreamFromStrings(strings: TStringList): TStringStream;
18266:
18267: {A simple Oscilloscope using TWaveIn class.
18268: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
18269: http://www.retroarchive.org/garbo/pc/turbopas/index.html
18270: uses
18271:   Forms,
18272:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
18273:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
18274:   uColorFunctions in 'uColorFunctions.pas',
18275:   AMixer in 'AMixer.pas',
18276:   uSettings in 'uSettings.pas',
18277:   UWavein4 in 'UWavein4.pas',
18278:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
18279:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
18280:
18281: Functions_max hex in the box maxbox
18282: functionslist.txt
18283: FunctionsList1 3.9.9.86/88/91/92/94/95/96/98/100/101/110/120
18284:
18285: ****
18286: Procedure
18287: PROCEDURE SIZE 8516 8396 8289 8242 7507 7401 6792 6310 5971 4438 3797 3600
18288: Procedure *****Now the Procedure list*****
18289: Procedure ( ACol, ARow : Integer; Items : TStrings )
18290: Procedure ( Agg : TAggregate )
18291: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus )
18292: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage )
18293: Procedure ( ASender : TComponent; var AMsg : TIdMessage )
18294: Procedure ( ASender : TObject; const ABytes : Integer )
18295: Procedure ( ASender : TObject; VStream : TStream )
18296: Procedure ( AThread : TIdThread )
18297: Procedure ( AWebModule : TComponent )
18298: Procedure ( Column : TColumn )
18299: Procedure ( const AUsername : String; const APASSWORD : String; AAAuthenticationResult : Boolean )
18300: Procedure ( const iStart : integer; const sText : string )
18301: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean )
18302: Procedure ( Database : TDatabase; LoginParams : TStrings )
18303: Procedure ( DataSet:TCustomClientDataSet; E:EReconcileError;UpdateKind:TUpdateKind;var
Action:TReconcileAction )
18304: Procedure ( DATASET : TDATASET )
18305: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction )
18306: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION )
18307: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction )

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18308: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
18309: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
18310: Procedure ( Done : Integer)
18311: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
18312: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
18313: Procedure ( HeaderControl:TCustomHeaderControl;Sect:THeaderSection;Width:Int;State:TSectionTrackState)
18314: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
18315: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
18316: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
18317: Procedure ( Sender: TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw : Boolean)
18318: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
18319: Procedure ( Sender : TCustomListView; Item : TListIItem; Rect : TRect; State : TownerDrawState)
18320: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
18321: Procedure ( SENDER : TFIELD; const TEXT : String)
18322: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
18323: Procedure ( Sender : TIdTelnet; const Buffer : String)
18324: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
18325: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
18326: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
18327: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
18328: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
18329: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
18330: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
18331: Procedure ( Sender : TObject; ARow : Longint; var Value : string)
18332: Procedure ( Sender : TObject; Button : TMPBtnType)
18333: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
18334: Procedure ( Sender : TObject; Button : TUDBtnType)
18335: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
18336: Procedure ( Sender : TObject; ClientSocket : TServerClientWinSocket; var SocketThread : TServerClientThread)
18337: Procedure ( Sender : TObject; Column : TListColumn)
18338: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
18339: Procedure ( Sender : TObject; Connecting : Boolean)
18340: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var DoneDraw:Bool
18341: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
18342: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
18343: Procedure ( Sender: TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
18344: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
18345: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
18346: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
18347: Procedure ( Sender : TObject; Index : LongInt)
18348: Procedure ( Sender : TObject; Item : TListItem)
18349: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
18350: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
18351: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
18352: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
18353: Procedure ( Sender : TObject; Item : TListItem; var S : string)
18354: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
18355: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
18356: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
18357: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
18358: Procedure ( Sender : TObject; Node : TTreenode)
18359: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
18360: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
18361: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
18362: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
18363: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
18364: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
18365: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
18366: Procedure ( Sender : TObject; Rect : TRect)
18367: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
18368: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
18369: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
18370: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
18371: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
18372: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
18373: Procedure ( SENDER : TOBJECT; SOURCE : TMENUITEM; REBUILD : BOOLEAN)
18374: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
18375: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
18376: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
18377: Procedure ( Sender : TObject; Thread : TServerClientThread)
18378: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
18379: Procedure ( Sender : TObject; Username, Password : string)
18380: Procedure ( Sender : TObject; var AllowChange : Boolean)
18381: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
18382: Procedure ( Sender : TObject; var Caption : string; var Alignment : THMLCaptionAlignment)
18383: Procedure ( Sender : TObject; var Continue : Boolean)
18384: Procedure ( Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMethod:TIdHTTPMethod)
18385: Procedure ( Sender : TObject; var Username : string)
18386: Procedure ( Sender : TObject; Wnd : HWND)
18387: Procedure ( Sender : TToolbar; Button : TToolbutton)
18388: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
18389: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
18390: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
18391: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolbutton)
18392: Procedure ( StatusBar : TCustomStatusbar; Panel : TStatusPanel; const Rect : TRect)
18393: Procedure ( StatusBar : TStatusbar; Panel : TStatusPanel; const Rect : TRect)
18394: Procedure ( var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
18395: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)

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18396: procedure (Sender: TObject)
18397: procedure (Sender: TObject; var Done: Boolean)
18398: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
18399: procedure _T(Name: tbtString; v: Variant);
18400: Procedure AbandonSignalHandler( RtlSigNum : Integer)
18401: Procedure Abort
18402: Procedure About1Click( Sender : TObject)
18403: Procedure Accept( Socket : TSocket)
18404: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
18405: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
18406: Procedure AESDecryptFile(const plaintext, ciphertext, password: string)
18407: Procedure AESDecryptString(const plaintext: string; var ciphertext: string; password: string)
18408: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
18409: Procedure Add( Addend1, Addend2 : TMyBigInt)
18410: Procedure ADD( const AKEY, AVALUE : VARIANT)
18411: Procedure Add( const Key : string; Value : Integer)
18412: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
18413: Procedure ADD( FIELD : TFIELD)
18414: Procedure ADD( ITEM : TMENUITEM)
18415: Procedure ADD( POPUP : TPOPUPMENU)
18416: Procedure AddCharacters( xCharacters : TCharSet)
18417: Procedure AddDriver( const Name : string; List : TStrings)
18418: Procedure AddImages( Value : TCustomImageList)
18419: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
18420: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
18421: Procedure AddLoader( Loader : TBitmapLoader)
18422: Procedure ADDPARAM( VALUE : TPARAM)
18423: Procedure AddPassword( const Password : string)
18424: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
18425: Procedure AddState( oState : TniRegularExpressionState)
18426: Procedure AddStrings( Strings : TStrings);
18427: procedure AddStrings(Strings: TStrings);
18428: Procedure AddStrings1( Strings : TWideStrings);
18429: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
18430: Procedure AddToRecentDocs( const Filename : string)
18431: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
18432: Procedure AllFunctionsList1Click( Sender : TObject)
18433: procedure AllObjectsList1Click(Sender: TObject);
18434: Procedure Allocate( AAllocateBytes : Integer)
18435: procedure AllResourceList1Click(Sender: TObject);
18436: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
18437: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
18438: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
18439: Procedure AnsiFree( var s : AnsiString)
18440: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
18441: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
18442: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
18443: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
18444: Procedure AntiFreeze;
18445: Procedure APPEND
18446: Procedure Append( const S : WideString)
18447: procedure Append(S: string);
18448: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
18449: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
18450: Procedure AppendChunk( Val : OleVariant)
18451: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
18452: Procedure AppendStr( var Dest : string; S : string)
18453: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALength : Integer)
18454: Procedure ApplyRange
18455: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18456: Procedure Arrange( Code : TListArrangement)
18457: procedure Assert(expr : Boolean; const msg: string);
18458: procedure Assert2(expr : Boolean; const msg: string);
18459: Procedure Assign( AList : TCustomBucketList)
18460: Procedure Assign( Other : TObject)
18461: Procedure Assign( Source : TDragObject)
18462: Procedure Assign( Source : TPersistent)
18463: Procedure Assign(Source: TPersistent)
18464: procedure Assign2(mystring, mypath: string);
18465: Procedure AssignCurValues( Source : TDataSet);
18466: Procedure AssignCurValues1( const CurValues : Variant);
18467: Procedure ASSIGNFIELD( FIELD : TFIELD)
18468: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
18469: Procedure AssignFile(var F: Text; FileName: string)
18470: procedure AssignFile(var F: TextFile; FileName: string)
18471: procedure AssignFileRead(var mystring, myfilename: string);
18472: procedure AssignFileWrite(mystring, myfilename: string);
18473: Procedure AssignTo( Other : TObject)
18474: Procedure AssignValues( Value : TParameters)
18475: Procedure ASSIGNVALUES( VALUE : TPARAMS)
18476: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
18477: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
18478: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
18479: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
18480: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
18481: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
18482: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
18483: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
18484: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);

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18485: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
18486: Procedure BcdMultiplyl( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
18487: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
18488: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
18489: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
18490: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
18491: procedure Beep
18492: Procedure BeepOk
18493: Procedure BeepQuestion
18494: Procedure BeepHand
18495: Procedure BeepExclamation
18496: Procedure BeepAsterisk
18497: Procedure BeepInformation
18498: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
18499: Procedure BeginLayout
18500: Procedure BeginTimer( const Delay, Resolution : Cardinal)
18501: Procedure BeginUpdate
18502: procedure BeginUpdate;
18503: procedure BigScreen1Click(Sender: TObject);
18504: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
18505: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
18506: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
18507: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
18508: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
18509: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
18510: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
18511: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
18512: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
18513: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
18514: Procedure BreakPointMenuClick( Sender : TObject)
18515: procedure BRINGTOFRONT
18516: procedure BringToFront;
18517: Procedure btnBackClick( Sender : TObject)
18518: Procedure btnBrowseClick( Sender : TObject)
18519: Procedure BtnClick( Index : TNavigateBtn)
18520: Procedure btnLargeIconsClick( Sender : TObject)
18521: Procedure BuildAndSendRequest( AURI : TIdURI)
18522: Procedure BuildCache
18523: Procedure BurnMemory( var Buff, BuffLen : integer)
18524: Procedure BurnMemoryStream( Destrukt : TMemoryStream)
18525: Procedure CalculateFirstSet
18526: Procedure Cancel
18527: procedure CancelDrag;
18528: Procedure CancelEdit
18529: procedure CANCELHINT
18530: Procedure CancelRange
18531: Procedure CancelUpdates
18532: Procedure CancelWriteBuffer
18533: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIIsRFCMessage:Bool)
18534: Procedure Capture2( ADest : TStrings; const ADelim : string; const AIIsRFCMessage : Boolean);
18535: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIIsRFCMessage:Bool)
18536: procedure CaptureScreenFormat(vname: string; vextension: string);
18537: procedure CaptureScreenPNG(vname: string);
18538: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
18539: procedure CASCADE
18540: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
18541: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);
18542: Procedure cbPathClick( Sender : TObject)
18543: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
18544: Procedure cedebugAfterExecute( Sender : TPSScript)
18545: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
18546: Procedure cedebugCompile( Sender : TPSScript)
18547: Procedure cedebugExecute( Sender : TPSScript)
18548: Procedure cedebugIdle( Sender : TObject)
18549: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
18550: Procedure CenterHeight( const pc, pcParent : TControl)
18551: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
18552: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
18553: Procedure Change
18554: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
18555: Procedure Changed
18556: Procedure ChangeDir( const ADirName : string)
18557: Procedure ChangeDirUp
18558: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
18559: Procedure ChangeLevelBy( Value : TChangeRange)
18560: Procedure ChDir(const s: string)
18561: Procedure Check(Status: Integer)
18562: Procedure CheckCommonControl( CC : Integer)
18563: Procedure CHECKFIELDNAME( const FIELDNAME : String)
18564: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
18565: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
18566: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
18567: Procedure CheckToken( T : Char)
18568: procedure CheckToken(t:char)
18569: Procedure CheckTokenSymbol( const S : string)
18570: procedure CheckTokenSymbol(s:string)
18571: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
18572: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18573: Procedure CIED65ToCIED50( var X, Y, Z : Extended)

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18574: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);
18575: procedure CipherFile1Click(Sender: TObject);
18576: Procedure Clear;
18577: Procedure Clear1Click( Sender : TObject)
18578: Procedure ClearColor( Color : TColor)
18579: Procedure CLEARITEM( AITEM : TMENUITEM)
18580: Procedure ClearMapping
18581: Procedure ClearSelection( KeepPrimary : Boolean)
18582: Procedure ClearWriteBuffer
18583: Procedure Click
18584: Procedure Close
18585: Procedure Close1Click( Sender : TObject)
18586: Procedure CloseDatabase( Database : TDatabase)
18587: Procedure CloseDataSets
18588: Procedure CloseDialog
18589: Procedure CloseFile(var F: Text);
18590: Procedure Closure
18591: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18592: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18593: Procedure CodeCompletionList1Click( Sender : TObject)
18594: Procedure ColEnter
18595: Procedure Collapse
18596: Procedure Collapse( Recurse : Boolean)
18597: Procedure ColorRGBtoHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
18598: Procedure CommaSeparatedToStringList( Alist: TStringList; const Value : string)
18599: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
18600: Procedure Compile1Click( Sender : TObject)
18601: procedure ComponentCount1Click(Sender: TObject);
18602: Procedure Compress(azipfolder, azipfile: string)
18603: Procedure DeCompress(azipfolder, azipfile: string)
18604: Procedure XZip(azipfolder, azipfile: string)
18605: Procedure XUnZip(azipfolder, azipfile: string)
18606: Procedure Connect( const ATimeout : Integer)
18607: Procedure Connect( Socket : TSocket)
18608: procedure Console1Click(Sender: TObject);
18609: Procedure Continue
18610: Procedure ContinueCount( var Counter : TJclCounter)
18611: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
18612: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
18613: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
18614: Procedure ConvertImage(vsource, vdestination: string);
18615: // Ex. ConvertImage(Exepath+'my233.bmp.bmp',Exepath+'mypng111.png')
18616: Procedure ConvertBitmap(vsource, vdestination: string);
18617: Procedure ConvertToGray(Cnv: TCanvas);
18618: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
18619: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
18620: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
18621: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
18622: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
18623: Procedure CopyFrom( mbCopy : TMyBigInt)
18624: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)
18625: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
18626: Procedure CopyTIDByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALength : Integer)
18627: Procedure CopyTIDBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int )
18628: Procedure CopyTIDCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer)
18629: Procedure CopyTIDInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
18630: Procedure CopyTIDIPv6Address(const ASource:TIdIPv6Address; var VDest : TIdBytes; const ADestIndex : Integer)
18631: Procedure CopyTIDLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
18632: Procedure CopyTIDNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
18633: Procedure CopyTIDNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
18634: Procedure CopyTIDString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
18635: Procedure CopyTIDWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
18636: Procedure CopyToClipboard
18637: Procedure CountParts
18638: Procedure CreateDataSet
18639: Procedure CreateEmptyFile( const FileName : string)
18640: Procedure CreateFileFromString( const FileName, Data : string)
18641: Procedure CreateFromDelta( Source : TPacketDataSet)
18642: procedure CREATEHANDLE
18643: Procedure CreatePipeStreams(var InPipe:TInputPipeStream;var OutPipe:TOutputPipeStream;SecAttr:PSecurityAttributes; BufSize:Longint);
18644: Procedure CreateProcAsUser( const UserDomain, UserName, Password, CommandLine : string)
18645: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
18646: Procedure CreateTable
18647: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
18648: procedure CSyntax1Click(Sender: TObject);
18649: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
18650: Procedure CURSORPOSCHANGED
18651: procedure CutFirstDirectory(var S: String)
18652: Procedure DataBaseError(const Message: string)
18653: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
18654: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
18655: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
18656: procedure DateToTimeToSystemTime(const DateToTime: TDateTime; var SystemTime: TSystemTime);
18657: Procedure DBIError(errorCode: Integer)
18658: Procedure DebugOutput( const AText : string)
18659: procedure Debugln(DebugLOGFILE: string; Event_message: string);

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18660: Procedure DebugRun1Click( Sender : TObject )
18661: procedure Dec;
18662: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word )
18663: procedure DecodeDate( const DateTime: TDateTime; var Year, Month, Day: Word );
18664: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word )
18665: Procedure DecodeDateMonthWeek( const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word )
18666: Procedure DecodeDateTime( const AValue:TDateTime;out AYear ,AMonth,ADay,AMin,ASec,AMillSec:Word )
18667: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word )
18668: Procedure DecodeDayOfWeekInMonth( const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word )
18669: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word )
18670: procedure DecodeTime( const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word );
18671: Procedure Decompile1Click( Sender : TObject )
18672: Procedure DefaultDrawColumnCell( const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState )
18673: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState )
18674: Procedure DeferLayout
18675: Procedure defFileRead
18676: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL; REMOVING:BOOLEAN)
18677: Procedure DelayMicroseconds( const MicroSeconds : Integer )
18678: Procedure Delete
18679: Procedure Delete( const AFilename : string )
18680: Procedure Delete( const Index : Integer )
18681: Procedure DELETE( INDEX : INTEGER )
18682: Procedure Delete( Index : LongInt )
18683: Procedure Delete( Node : TTreeNode )
18684: procedure Delete(var s: AnyString; ifrom, icount: Longint );
18685: Procedure DeleteAlias( const Name : string )
18686: Procedure DeleteDriver( const Name : string )
18687: Procedure DeleteIndex( const Name : string )
18688: Procedure DeleteKey( const Section, Ident : String )
18689: Procedure DeleteRecords
18690: Procedure DeleteRecords( AffectRecords : TAffectRecords )
18691: Procedure DeleteString( var pStr : String; const pDelStr : string )
18692: Procedure DeleteTable
18693: procedure DelphiSite1Click(Sender: TObject);
18694: Procedure Deselect
18695: Procedure Deselect( Node : TTreeNode )
18696: procedure DestroyComponents
18697: Procedure DestroyHandle
18698: Procedure Diff( var X : array of Double )
18699: procedure Diff(var X: array of Double );
18700: Procedure DirCreate( const DirectoryName : String )';
18701: procedure DISABLEALIGN
18702: Procedure DisableConstraints
18703: Procedure Disconnect
18704: Procedure Disconnect( Socket : TSocket )
18705: Procedure Dispose
18706: procedure Dispose(P: PChar )
18707: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word )
18708: Procedure DoKey( Key : TDBCtrlGridKey )
18709: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView );
18710: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView );
18711: Procedure Dormant
18712: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd );
18713: Procedure DoubleToBytes( Value : Double; Bytes : array of byte )
18714: Procedure DoubleToComp( Value : Double; var Result : Comp )
18715: Procedure doWebCamPic(picname: string); //eg: c:\mypic.png
18716: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean );
18717: procedure Draw(X, Y: Integer; Graphic: TGraphic );
18718: Procedure Draw(Canvas:TCanvas;X,Y,
Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool );
18719: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer )
18720: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean )
18721: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer )
18722: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState )
18723: procedure DrawFocusRect(const Rect: TRect );
18724: Procedure DrawHDIBToTBitmap( HDIB : THandle; Bitmap : TBitmap )
18725: Procedure DRAWMENUITEM( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE )
18726: Procedure DrawOverlay( Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean );
18727: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled : Boolean );
18728: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer );
18729: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect )
18730: Procedure DropConnections
18731: Procedure DropDown
18732: Procedure DumpDescription( oStrings : TStrings )
18733: Procedure DumpStateTable( oStrings : TStrings )
18734: Procedure EDIT
18735: Procedure EditButtonClick
18736: Procedure EditFont1Click( Sender : TObject )
18737: procedure Ellipse(X1, Y1, X2, Y2: Integer );
18738: Procedure Ellipse1( const Rect : TRect );
18739: Procedure EMMS
18740: Procedure Encode( ADest : TStream )
18741: procedure ENDDRAG(DROP:BOOLEAN)
18742: Procedure EndEdit( Cancel : Boolean )
18743: Procedure EndTimer
18744: Procedure EndUpdate
18745: Procedure EraseSection( const Section : string )
18746: Procedure Error( const Ident : string )

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18747: procedure Error(Ident:Integer)
18748: Procedure ErrorFmt( const Ident : string; const Args : array of const)
18749: Procedure ErrorStr( const Message : string)
18750: procedure ErrorStr(Message:String)
18751: Procedure Exchange( Index1, Index2 : Integer)
18752: procedure Exchange(Index1, Index2: Integer);
18753: Procedure Exec( FileName, Parameters, Directory : string)
18754: Procedure ExecProc
18755: Procedure ExecSQL( UpdateKind : TUpdateKind)
18756: Procedure Execute
18757: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
18758: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
18759: Procedure ExecuteCommand(executeFile, paramstring: string)
18760: Procedure ExecuteShell(executeFile, paramstring: string)
18761: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18762: Procedure ExitThread(ExitCode: Integer); stdcall;
18763: Procedure ExitProcess(ExitCode: Integer); stdcall;
18764: Procedure Expand( AUserName : String; AResults : TStrings)
18765: Procedure Expand( Recurse : Boolean)
18766: Procedure ExportClipboardClick( Sender : TObject)
18767: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
18768: Procedure ExtractContentFields( Strings : TStrings)
18769: Procedure ExtractCookiefields( Strings : TStrings)
18770: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
18771: Procedure ExtractHeaderFields(Separar,
WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
18772: Procedure ExtractHTTPFields(Separators,WhiteSpace:
TSysCharSet;Content:PChar;Strings:TStrings;StripQuots:Bool)
18773: Procedure ExtractQueryFields( Strings : TStrings)
18774: Procedure FastDegToGrad
18775: Procedure FastDegToRad
18776: Procedure FastGradToDeg
18777: Procedure FastGradToRad
18778: Procedure FastRadToDeg
18779: Procedure FastRadToGrad
18780: Procedure FileClose( Handle : Integer)
18781: Procedure FileClose(handle: integer)
18782: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs>ShowDirs,Multitasking:Bool)
18783: Procedure FileStructure( AStructure : TidFTPDataStructure)
18784: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
18785: Procedure FillBytes( var VBytes : TIdBytes; const ACount : Integer; const AValue : Byte)
18786: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
18787: Procedure FillChar2(var X: PChar ; count: integer; value: char)
18788: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
18789: Procedure FillIPList
18790: procedure FillRect(const Rect: TRect);
18791: Procedure FillTStrings( AStrings : TStrings)
18792: Procedure FilterOnBookmarks( Bookmarks : array of const)
18793: procedure FinalizePackage(Module: HMODULE)
18794: procedure FindClose;
18795: procedure FindClose2(var F: TSearchRec)
18796: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
18797: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
18798: Procedure FindNearest( const KeyValues : array of const)
18799: Procedure FinishContext
18800: Procedure FIRST
18801: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
18802: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
18803: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
18804: Procedure FlushSchemaCache( const TableName: string)
18805: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
18806: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
18807: Procedure Form1Close( Sender : TObject; var Action : TCloseAction)
18808: Procedure FormActivate( Sender : TObject)
18809: procedure FormatLn(const format: String; const args: array of const); //alias
18810: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
18811: Procedure FormCreate( Sender : TObject)
18812: Procedure FormDestroy( Sender : TObject)
18813: Procedure FormKeyPress( Sender : TObject; var Key : Char)
18814: procedure FormOutput1Click(Sender: TObject);
18815: Procedure FormToHtml( Form : TForm; Path : string)
18816: procedure FrameRect(const Rect: TRect);
18817: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
18818: Procedure NotebookHandlesNeeded( Notebook : TNNotebook)
18819: Procedure Free( Buffer : TRecordBuffer)
18820: Procedure Free( Buffer : TValueBuffer)
18821: Procedure Free;
18822: Procedure FreeAndNil(var Obj:TObject)
18823: Procedure FreeImage
18824: procedure FreeMem(P: PChar; Size: Integer)
18825: Procedure FreeTreeData( Tree : TUpdateTree)
18826: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
18827: Procedure FullCollapse
18828: Procedure FullExpand
18829: Procedure GenerateDBP(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
18830: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
18831: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
18832: Procedure Get1( AURL : string; const AResponseContent : TStream);
18833: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);

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18834: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
18835: Procedure GetAliasNames( List : TStrings)
18836: Procedure GetAliasParams( const AliasName : string; List : TStrings)
18837: Procedure GetApplicationsRunning( Strings : TStrings)
18838: Procedure GetBox(aURL, extension: string);
18839: Procedure GetCommandTypes( List : TWideStrings)
18840: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
18841: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
18842: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
18843: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
18844: Procedure GetDatabaseNames( List : TStrings)
18845: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
18846: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
18847: Procedure GetDir(d:byte; var s: string)
18848: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
18849: Procedure GetDriverNames( List : TStrings)
18850: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
18851: Procedure GetDriverParams( const DriverName : string; List : TStrings)
18852: Procedure GetEmails1Click( Sender : TObject)
18853: Procedure getEnvironmentInfo;
18854: Function getEnvironmentString: string;
18855: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
18856: Procedure GetFieldNames( const TableName : string; List : TStrings)
18857: Procedure GetFieldNames( const TableName : string; List : TStrings);
18858: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
18859: Procedure GETFIELDNAMES( LIST : TSTRINGS)
18860: Procedure GetFieldNames1( const TableName : string; List : TStrings);
18861: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
18862: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
18863: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
18864: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
18865: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
18866: Procedure GetFMTBCD( Buffer : TRecordBuffer; var value : TBcd)
18867: Procedure GetFormatSettings
18868: Procedure GetFromDIB( var DIB : TBitmapInfo)
18869: Procedure GetFromHDI(B HDIB : HBitmap)
18870: // GetGEOMAPX('html',ExePath+'cologne2mapX.html','cathedral_cologne')
18871: Procedure GetGEOMap(C_form,apath: string; const Data: string); //c_form: [html/json/xml]
18872: Procedure GetIcon( Index : Integer; Image : TIcon);
18873: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
18874: Procedure GetIndexInfo( IndexName : string)
18875: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
18876: Procedure GetIndexNames( List : TStrings)
18877: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
18878: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
18879: Procedure GetIndexNames4( const TableName : string; List : TStrings);
18880: Procedure GetInternalResponse
18881: Procedure GETITEMNAMES( LIST : TSTRINGS)
18882: procedure GetMem(P: PChar; Size: Integer)
18883: Procedure GETOLE2ACCELERORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
18884: procedure GetPackageDescription(ModuleName: PChar): string)
18885: Procedure GetPackageName( List : TStrings);
18886: Procedure GetPackageNames1( List : TWideStrings);
18887: Procedure GetParamList( List : TList; const ParamNames : WideString)
18888: Procedure GetProcedureNames( List : TStrings);
18889: Procedure GetProcedureNames( List : TWideStrings);
18890: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
18891: Procedure GetProcedureNames1( List : TStrings);
18892: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
18893: Procedure GetProcedureNames3( List : TWideStrings);
18894: Procedure GetProcedureNames4( const PackageName : WideString; List : TWideStrings);
18895: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
18896: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
18897: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
18898: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : WideString; List : TList);
18899: Procedure GetProviderNames( Names : TWideStrings);
18900: Procedure GetProviderNames( Proc : TGetStrProc)
18901: Procedure GetProviderNames1( Names : TStrings);
18902: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
18903: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string); //no open image
18904: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string;aformat:string):TLinearBitmap;
18905: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
18906: Procedure GetSchemaNames( List : TStrings);
18907: Procedure GetSchemaNames1( List : TWideStrings);
18908: Procedure getScriptandRunAsk;
18909: Procedure getScriptandRun(ascript: string);
18910: Procedure getScript(ascript: string); //alias
18911: Procedure getWebScript(ascript: string); //alias
18912: Procedure GetSessionNames( List : TStrings)
18913: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
18914: Procedure GetStrings( List : TStrings)
18915: Procedure GetSystemTime; stdcall;
18916: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)
18917: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
18918: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
18919: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
18920: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
18921: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);

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18922: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
18923: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
18924: Procedure GetVisibleWindows( List : Tstrings)
18925: Procedure GoBegin
18926: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
18927: Procedure GotoCurrent( Table : TTable)
18928: procedure GotoEndClick(Sender: TObject);
18929: Procedure GotoNearest
18930: Procedure GradientFillCanvas(const ACanvas: TCanvas; const AStartCol, AEndCol: TColor; const ARect: TRect; const
Direction: TGradientDirection)
18931: Procedure HandleException( E : Exception; var Handled : Boolean)
18932: procedure HANDLEMESSAGE
18933: procedure HandleNeeded;
18934: Procedure Head( AURL : string)
18935: Procedure Help( var AHelpContents : TStringList; ACommand : String)
18936: Procedure HexToBinary( Stream : TStream)
18937: procedure HexToBinary(Stream:TStream)
18938: Procedure HideDragImage
18939: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
18940: Procedure HideTraybar
18941: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
18942: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
18943: Procedure HookOSExceptions
18944: Procedure HookSignal( RtlSigNum : Integer)
18945: Procedure HSLTToRGB( const H, S, L : Single; out R, G, B : Single);
18946: Procedure HTMLOntax1Click( Sender : TObject)
18947: Procedure IFPS3ClassesPluginImport( Sender : TObject; x : TPSPascalCompiler)
18948: Procedure IFPS3ClassesPluginExecImport( Sender : TObject; Exec : TPSEExec; x : TPSRuntimeClassImporter)
18949: Procedure ImportFromClipboard1Click( Sender : TObject)
18950: Procedure ImportFromClipboard2Click( Sender : TObject)
18951: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
18952: procedure Incb(var x: byte);
18953: Procedure IncludeClick( Sender : TObject)
18954: Procedure IncludeOFF; //preprocessing
18955: Procedure IncludeON;
18956: procedure InfoClick(Sender: TObject);
18957: Procedure InitAltRecBuffers( CheckModified : Boolean)
18958: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
18959: Procedure InitContext( WebModuleList: TAbstractWebModuleList; Request:TWebRequest; Response:TWebResponse )
18960: Procedure InitData( ASource : TDataSet)
18961: Procedure InitDelta( ADelta : TPacketDataSet);
18962: Procedure InitDelta( const ADelta : OleVariant);
18963: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
18964: Procedure Initialize
18965: procedure InitializePackage(Module: HMODULE)
18966: Procedure INITIATEACTION
18967: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
18968: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
18969: Procedure InitModule( AModule : TComponent)
18970: Procedure InitStdConvs
18971: Procedure InitTreeData( Tree : TUpdateTree)
18972: Procedure INSERT
18973: Procedure Insert( Index : Integer; AClass : TClass)
18974: Procedure Insert( Index : Integer; AComponent : TComponent)
18975: Procedure Insert( Index : Integer; AObject : TObject)
18976: Procedure Insert( Index : Integer; const S : WideString)
18977: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
18978: Procedure Insert(Index: Integer; const S: string);
18979: procedure Insert(Index: Integer; S: string);
18980: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
18981: procedure InsertComponent(AComponent:TComponent)
18982: procedure InsertControl(AControl: TControl);
18983: Procedure InsertIcon( Index : Integer; Image : TIcon)
18984: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
18985: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
18986: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
18987: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
18988: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
18989: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
18990: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
18991: Procedure InternalBeforeResolve( Tree : TUpdateTree)
18992: Procedure InvalidateModuleCache
18993: Procedure InvalidateTitles
18994: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
18995: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
18996: Procedure InvalidDateTimeError(const AYear,AMth,Aday,AHour,AMin,ASec,AMilSec:Word;const
ABaseDate:TDate)
18997: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
18998: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
18999: procedure JavaSyntax1Click(Sender: TObject);
19000: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
19001: Procedure KillDataChannel
19002: Procedure Largefont1Click( Sender : TObject)
19003: Procedure LAST
19004: Procedure LaunchCpl( FileName : string)
19005: Procedure Launch( const AFile : string)
19006: Procedure LaunchFile( const AFile : string)
19007: Procedure LetFileList(FileList: TStringlist; apath: string);
19008: Procedure lineToNumber( xmemo : String; met : boolean)

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19009: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListIItem;State:TCustDrawState;var
19010:   DefaultDraw:Bool)
19011: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListIItem; SubItem : Integer; State
19012:   : TCustDrawState; var DefaultDraw : Boolean)
19013: Procedure ListViewData( Sender : TObject; Item : TListIItem)
19014: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
19015:   : TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
19016: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
19017: Procedure ListViewDblClick( Sender : TObject)
19018: procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
19019: Procedure ListViewExports(const FileName: string; List: TStrings);
19020: Procedure Load( const WSDLFileName: WideString; Stream : TMemoryStream)
19021: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
19022: Procedure LoadFromFile( AFileName : string)
19023: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
19024: Procedure LoadFromFile( const FileName : string)
19025: Procedure LOADFROMFILE( const FILENAME : String; BLOTYPE : TBLOTYPE)
19026: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
19027: Procedure LoadFromFile( const FileName : WideString)
19028: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
19029: Procedure LoadFromFile(const AFileName: string)
19030: procedure LoadFromFile(FileName:string)
19031: procedure LoadFromFile(FileName:String)
19032: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
19033: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
19034: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
19035: Procedure LoadFromStream( const Stream : TStream)
19036: Procedure LoadFromStream( S : TStream)
19037: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
19038: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
19039: Procedure LoadFromStream( Stream : TStream)
19040: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOTYPE : TBLOTYPE)
19041: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
19042: procedure LoadFromStream(Stream: TStream);
19043: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
19044: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
19045: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
19046: Procedure LoadLastfileClick( Sender : TObject)
19047: { LoadIconToImage loads two icons from resource named NameRes,
19048:   into two image lists ALarge and ASmall}
19049: Procedure LoadIconToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
19050: Procedure LoadMemo
19051: Procedure LoadParamsFromIniFile( FFileName : WideString)
19052: Procedure Lock
19053: Procedure Login
19054: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
19055: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
19056: Procedure MakeCaseInsensitive
19057: Procedure MakeDeterministic( var bChanged : boolean)
19058: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
19059: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
19060: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
19061: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:boolean;Volume:Byte);
19062: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
19063: Procedure SetRectComplexFormatStr( const S : string)
19064: Procedure SetPolarComplexFormatStr( const S : string)
19065: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
19066: Procedure MakeVisible
19067: Procedure MakeVisible( PartialOK : Boolean)
19068: Procedure ManualClick( Sender : TObject)
19069: Procedure MarkReachable
19070: Procedure maxbox; //shows the exe version data in a win box
19071: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
19072: Procedure Memo1Change( Sender : TObject)
19073: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var
19074:   Action:TSynReplaceAction)
19075: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
19076: procedure Memory1Click(Sender: TObject);
19077: Procedure MERGE( MENU : TMAINMENU)
19078: Procedure MergeChangeLog
19079: procedure MINIMIZE
19080: Procedure MinimizeMaxbox;
19081: procedure MyCopyFile(Namel,Name2:string);
19082: Procedure MkDir(const s: string)
19083: Procedure MakeDir(const s: string)');
19084: Procedure ChangeDir(const s: string)');
19085: Function makefile(const FileName: string): integer');
19086: Procedure mnuPrintFont1Click( Sender : TObject)
19087: procedure ModalStarted
19088: Procedure Modified
19089: Procedure ModifyAlias( Name : string; List : TStrings)
19090: Procedure ModifyDriver( Name : string; List : TStrings)
19091: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
19092: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
19093: Procedure Move( CurIndex, NewIndex : Integer)

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19094: procedure Move(CurIndex, newIndex: Integer);
19095: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
19096: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALEN:integer)
19097: Procedure moveCube( o : TMyLabel)
19098: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
19099: procedure MoveTo(X, Y: Integer);
19100: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
19101: Procedure MovePoint(var x,y:Extended; const angle:Extended);
19102: Procedure MultiPLY( Multiplier1, Multiplier2 : TMyBigInt);
19103: Procedure MultiPLY( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
19104: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK);
19105: Procedure mxButton(x,y,width,height,top,left,aHandle: integer);
19106: Procedure New(Width, Height : Integer; PixFormat : TPixFormat)
19107: procedure New(P: PChar)
19108: procedure NewLClick(Sender: TObject);
19109: procedure NewInstanceClick(Sender: TObject);
19110: Procedure NEXT
19111: Procedure NextMonth
19112: Procedure Noop
19113: Procedure NormalizePath( var APath : string)
19114: procedure ObjectBinaryToText(Input, Output: TStream)
19115: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
19116: procedure ObjectResourceToText(Input, Output: TStream)
19117: procedure ObjectResourceToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
19118: procedure ObjectTextToBinary(Input, Output: TStream)
19119: procedure ObjectTextToBinary1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
19120: procedure ObjectTextToResource(Input, Output: TStream)
19121: procedure ObjectTextToResource1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
19122: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
19123: Procedure Open( const UserID : WideString; const Password : WideString);
19124: Procedure Open;
19125: Procedure openClick( Sender : TObject)
19126: Procedure OpenCdDrive
19127: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
19128: Procedure OpenCurrent
19129: Procedure OpenFile(vfilenamepath: string)
19130: Procedure OpenDirectory1Click( Sender : TObject)
19131: Procedure OpenDir(adir: string);
19132: Procedure OpenIndexFile( const IndexName : string)
19133: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
SchemID:OleVariant;DataSet:TADODataset)
19134: Procedure OpenWriteBuffer( const AThreshold : Integer)
19135: Procedure OptimizeMem
19136: Procedure Options1( AURL : string);
19137: Procedure OutputDebugString(lpOutputString : PChar)
19138: Procedure PackBuffer
19139: Procedure Paint
19140: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)
19141: Procedure PaintToTBitmap( Target : TBitmap)
19142: Procedure PaletteChanged
19143: Procedure ParentBidiModeChanged
19144: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT)
19145: Procedure PasteFromClipboard;
19146: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer)
19147: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
19148: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
19149: Procedure PError( Text : string)
19150: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
19151: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer);
19152: Procedure Play(FromFrame, ToFrame : Word; Count : Integer)
19153: procedure playMP3(mpPath: string);
19154: Procedure PlayMP31Click( Sender : TObject)
19155: Procedure PointCopy( var Dest : TPoint; const Source : TPoint)
19156: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer)
19157: procedure PolyBezier(const Points: array of TPoint);
19158: procedure PolyBezierTo(const Points: array of TPoint);
19159: procedure Polygon(const Points: array of TPoint);
19160: procedure Polyline(const Points: array of TPoint);
19161: Procedure Pop
19162: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT)
19163: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float)
19164: Procedure POPUP( X, Y : INTEGER )
19165: Procedure PopupURL(URL : WideString);
19166: Procedure POST
19167: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
19168: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
19169: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream);
19170: Procedure PostUser( const Email, FirstName, LastName : WideString)
19171: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
19172: procedure Pred(X: int64);
19173: Procedure Prepare
19174: Procedure PrepareStatement
19175: Procedure PreProcessXML( AList : TStrings)
19176: Procedure PreventDestruction
19177: Procedure Print( const Caption : string)
19178: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
19179: procedure printf(const format: String; const args: array of const);
19180: Procedure PrintList(Value: TStringList);
19181: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)

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19182: Procedure Printout1Click( Sender : TObject )
19183: Procedure ProcessHeaders
19184: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR )
19185: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean );
19186: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean );
19187: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean );
19188: Procedure ProcessMessagesOFF; //application.processmessages
19189: Procedure ProcessMessagesON;
19190: Procedure ProcessPath( const EditText:string; var Drive:Char; var DirPart:string; var FilePart : string )
19191: Procedure ProcessPath1( const EditText:string; var Drive:Char; var DirPart:string; var FilePart:string );
19192: Procedure Prolist Size is: 3797 /1415
19193: Procedure procMessClick( Sender : TObject )
19194: Procedure PSScriptCompile( Sender : TPSScript )
19195: Procedure PSScriptExecute( Sender : TPSScript )
19196: Procedure PSScriptLine( Sender : TObject )
19197: Procedure Push( ABoundary : string )
19198: procedure PushItem(AItem: Pointer)
19199: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream );
19200: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean );
19201: procedure PutLinuxLines(const Value: string)
19202: Procedure Quit
19203: Procedure RaiseConversionError( const AText : string );
19204: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const );
19205: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string );
19206: procedure RaiseException(Ex: TIFEException; Param: string);
19207: Procedure RaiseExceptionForLastCmdResult;
19208: procedure RaiseLastException;
19209: procedure RaiseException2;
19210: Procedure RaiseException3(const Msg: string);
19211: Procedure RaiseExcept( const Msg: string );
19212: Procedure RaiseLastOSError
19213: Procedure RaiseLastWin32;
19214: procedure RaiseLastWin32Error()
19215: Procedure RaiseListError( const ATemplate : string; const AData : array of const );
19216: Procedure RandomFillStream( Stream : TMemoryStream )
19217: procedure randomize;
19218: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect )
19219: Procedure RCS
19220: Procedure Read( Socket : TSocket )
19221: procedure ReadLn(var ast: string); //of inputquery
19222: Procedure ReadBlobData
19223: procedure ReadBuffer(Buffer:String;Count:LongInt)
19224: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
19225: Procedure ReadSection( const Section : string; Strings : TStrings )
19226: Procedure ReadSections( Strings : TStrings )
19227: Procedure ReadSections( Strings : TStrings );
19228: Procedure ReadSections1( const Section : string; Strings : TStrings );
19229: Procedure ReadSectionValues( const Section : string; Strings : TStrings )
19230: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean )
19231: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer )
19232: Procedure ReadVersion2(FileName: STRING; aVersion : TStrings );
19233: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
19234: Procedure Realign;
19235: procedure Rectangle(X1, Y1, X2, Y2: Integer);
19236: Procedure Rectangle1( const Rect : TRect );
19237: Procedure RectCopy( var Dest : TRect; const Source : TRect )
19238: Procedure RectFitToScreen( var R : TRect )
19239: Procedure RectGrow( var R : TRect; const Delta : Integer )
19240: Procedure RectGrowX( var R : TRect; const Delta : Integer )
19241: Procedure RectGrowY( var R : TRect; const Delta : Integer )
19242: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer )
19243: Procedure RectMoveTo( var R : TRect; const X, Y : Integer )
19244: Procedure RectNormalize( var R : TRect )
19245: // TFileCallbackProcedure = procedure(filename:string);
19246: Procedure RecurseDirectory(Dir: String;IncludeSubs: boolean;callback: TFileCallbackProcedure );
19247: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean);
19248: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
19249: Procedure Refresh;
19250: Procedure RefreshData( Options : TFetchOptions )
19251: Procedure REFRESHLOOKUPLIST
19252: Procedure regExPathfinder(Pathin, fileout, firsttp, aregex, ext: string; asort: boolean);
19253: Procedure RegExPathfinder2(Pathin, fileout, firsttp, aregex, ext: string; asort, acopy: boolean);
19254: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIAuthENTICATIONCLASS );
19255: Procedure RegisterChanges( Value : TChangeLink )
19256: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass )
19257: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass )
19258: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int )
19259: Procedure ReInitialize( ADelay : Cardinal )
19260: procedure RELEASE
19261: Procedure Remove( const AByteCount : integer )
19262: Procedure REMOVE( FIELD : TFIELD )
19263: Procedure REMOVE( ITEM : TMENUITEM )
19264: Procedure REMOVE( POPUP : TPOPUPMENU )
19265: Procedure RemoveAllPasswords
19266: procedure RemoveComponent(AComponent:TComponent )
19267: Procedure RemoveDir( const ADirName : string )
19268: Procedure RemoveLambdaTransitions( var bChanged : boolean )
19269: Procedure REMOVEPARAM( VALUE : TPARAM )
19270: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset );

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19271: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState );
19272: Procedure Rename( const ASourceFile, ADestFile : string )
19273: Procedure Rename( const FileName : string; Reload : Boolean )
19274: Procedure RenameTable( const NewTableName : string )
19275: Procedure Replace( Index : Integer; Image, Mask : TBitmap )
19276: Procedure Replace1Click( Sender : TObject )
19277: Procedure ReplaceDate( var Date : TDateTime; NewDate : TDateTime )
19278: procedure ReplaceDate(var Date: TDateTime; const NewDate: TDateTime)
19279: Procedure ReplaceIcon( Index : Integer; Image : TIcon )
19280: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor )
19281: Procedure ReplaceTime( var Date : TDateTime; NewTime : TDateTime )
19282: procedure ReplaceTime(var Date: TDateTime; const NewTime: TDateTime);
19283: Procedure Requery( Options : TExecuteOptions )
19284: Procedure Reset
19285: Procedure Reset1Click( Sender : TObject )
19286: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor )
19287: procedure ResourceExplore1Click(Sender: TObject);
19288: Procedure RestoreContents
19289: Procedure RestoreDefaults
19290: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string )
19291: Procedure RetrieveHeaders
19292: Procedure RevertRecord
19293: Procedure RGBABoBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal )
19294: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
19295: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
19296: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single );
19297: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single );
19298: Procedure RGBtoHSV( r, g, b : Integer; var h, s, v : Integer )
19299: Procedure RleCompress2( Stream : TStream )
19300: Procedure RleDecompress2( Stream : TStream )
19301: Procedure RmDir(const S: string)
19302: Procedure Rollback
19303: Procedure Rollback( TransDesc : TTransactionDesc )
19304: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction )
19305: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction )
19306: Procedure RollbackTrans
19307: procedure RoundRect( X1, Y1, X2, Y2, X3, Y3: Integer );
19308: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean )
19309: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean )
19310: Procedure RunDll32Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer )
19311: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string )
19312: Procedure S_EBox( const AText : string )
19313: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int
19314: Procedure S_IBox( const AText : string )
19315: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char )
19316: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string )
19317: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string )
19318: Procedure SampleVarianceAndMean
19319: ( const X : TDynFloatArray; var Variance, Mean : Float )
19320: Procedure Save2Click( Sender : TObject )
19321: Procedure Saveas3Click( Sender : TObject )
19322: Procedure Savebefore1Click( Sender : TObject )
19323: Procedure SaveBytesToFile( const Data: TBytes; const FileName: string );
19324: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
19325: Procedure SaveConfigFile
19326: Procedure SaveOutput1Click( Sender : TObject )
19327: procedure SaveScreenshotClick(Sender: TObject);
19328: Procedure SaveLn(pathname, content: string); //Saveln(exepath+'mysavelntest.txt', memo2.text);
19329: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE )
19330: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE )
19331: Procedure SaveToFile( AfileName : string )
19332: Procedure SAVETOFILE( const FILENAME : String )
19333: Procedure SaveToFile( const FileName : WideString )
19334: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat )
19335: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap )
19336: procedure SaveToFile(FileName:string);
19337: procedure SaveToFile(FileName:String)
19338: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean )
19339: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap )
19340: Procedure SaveToStream( S : TStream )
19341: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap )
19342: Procedure SaveToStream( Stream : TStream )
19343: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat )
19344: procedure SaveToStream(Stream: TStream);
19345: procedure SaveToStream(Stream:TStream)
19346: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string );
19347: Procedure SaveToStream2( Stream : TStream; const FormatExt : string );
19348: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char )
19349: procedure Say(const sText: string)
19350: Procedure SBytecode1Click( Sender : TObject )
19351: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double )
19352: procedure ScriptExplorer1Click(Sender: TObject);
19353: Procedure Scroll( Distance : Integer )
19354: Procedure Scroll( DX, DY : Integer )
19355: procedure ScrollBy(DeltaX, DeltaY: Integer);
19356: procedure SCROLLINVVIEW(ACONTROL:TCONTROL)
19357: Procedure ScrollTabs( Delta : Integer )
19358: Procedure Search1Click( Sender : TObject )

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19359: procedure SearchAndOpenDoc(vfilenamepath: string)
19360: procedure SearchAndOpenFile(vfilenamepath: string)
19361: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
19362: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
19363: Procedure SearchNext1Click( Sender : TObject)
19364: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
19365: Procedure Select1( const Nodes : array of TTreeNode);
19366: Procedure Select2( Nodes : TList);
19367: Procedure SelectNext( Direction : Boolean)
19368: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
19369: Procedure SelfTestPEM //unit uPSI_cPEM
19370: Procedure Send( AMsg : TIdMessage)
19371: //config first in const MAILINIFILE = 'maildef.ini';
19372: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
19373: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19374: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19375: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
19376: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
19377: Procedure SendResponse
19378: Procedure SendStream( AStream : TStream)
19379: procedure SendMCICmd(Cmd: string); !
19380: Procedure Set8087CW( NewCW : Word)
19381: Procedure SetAll( One, Two, Three, Four : Byte)
19382: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
19383: Procedure SetAppDispatcher( const AD dispatcher : TComponent)
19384: procedure SetArrayLength;
19385: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
19386: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
19387: procedure SetArrayLength2String2(arr: T2StringArray; asize1, asize2: integer); //all init
19388: procedure SetArrayLength2Integer2(arr: T2IntegerArray; asize1, asize2: integer);
19389: procedure Set2DimStrArray(var arr: T2StringArray; asize1, asize2: integer);'
19390: procedure Set2DimIntArray(var arr: T2IntegerArray; asize1, asize2: integer);'
19391: procedure Set3DimIntArray(var arr: T3IntegerArray; asize1, asize2, asize3: integer);
19392: procedure Set3DimStrArray(var arr: T3StringArray; asize1, asize2, asize3: integer);
19393: Procedure SetAsHandle( Format: Word; Value : THandle)
19394: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
19395: procedure SetCaptureControl(Control: TControl);
19396: Procedure SetColumnAttributes
19397: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
19398: Procedure SetCustomHeader( const Name, Value : string)
19399: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
19400: Procedure SetFMTBCD( Buffer : TRecordBuffer; value : BCd)
19401: Procedure SetFocus
19402: procedure SetFocus; virtual;
19403: Procedure SetInitialState
19404: Procedure SetKey
19405: procedure SetLastError(ErrorCode: Integer)
19406: procedure SetLength;
19407: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
19408: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
19409: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind);
19410: procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
19411: Procedure SetParams1( UpdateKind : TUpdateKind);
19412: Procedure SetPassword( const Password : string)
19413: Procedure SetPointer( Ptr : Pointer; Size : Longint)
19414: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
19415: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
19416: Procedure SetProvider( Provider : TComponent)
19417: Procedure SetProxy( const Proxy : string)
19418: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
19419: Procedure SetRange( const StartValues, EndValues : array of const)
19420: Procedure SetRangeEnd
19421: Procedure SetRate( const aPercent, aYear : integer)
19422: procedure SetRate(const aPercent, aYear: integer)
19423: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
19424: Procedure SetSafeCallExceptionMsg( Msg : String)
19425: procedure SETSELTEXTBUF(BUFFER:PCHAR)
19426: Procedure SetSize( AWidth, AHeight : Integer)
19427: procedure SetSize(NewSize:LongInt)
19428: procedure SetString(var s: string; buffer: PChar; len: Integer)
19429: Procedure SetStrings( List : TStrings)
19430: Procedure SetText( Text : PwideChar)
19431: procedure SetText(Text: PChar);
19432: Procedure SetTextBuf( Buffer : PChar)
19433: procedure SETTEXTBUF(BUFFER:PCHAR)
19434: Procedure SetTick( Value : Integer)
19435: Procedure SetTimeout( ATimeOut : Integer)
19436: Procedure SetTraceEvent( Event : TDBXTraceEvent)
19437: Procedure SetUserName( const UserName : string)
19438: Procedure SetWallpaper( Path : string);
19439: procedure ShellStyle1Click(Sender: TObject);
19440: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
19441: Procedure ShowFileProperties( const FileName : string)
19442: Procedure ShowIncludelClick( Sender : TObject)
19443: Procedure ShowInterfaces1Click( Sender : TObject)
19444: Procedure ShowLastException1Click( Sender : TObject)
19445: Procedure ShowMessage( const Msg : string)
19446: Procedure ShowMessageBig(const aText : string);

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19447: Procedure ShowMessageBig2( const aText : string; aaAutoSize: boolean);
19448: Procedure ShowMessageBig3( const aText : string; fSize: byte; aaAutoSize: boolean);
19449: Procedure MsgBig( const aText : string); //alias
19450: procedure showMessage(myText: string);
19451: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
19452: procedure ShowMessageFmt( const Msg: string; Params: array of const))
19453: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
19454: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
19455: Procedure ShowSearchDialog( const Directory : string)
19456: Procedure ShowSpecChars1Click( Sender : TObject)
19457: Procedure ShowBitmap(bmp: TBitmap); //draw in a form!
19458: Procedure ShredFile( const FileName : string; Times : Integer)
19459: procedure Shuffle(vQ: TStringList);
19460: Procedure ShuffleList( var List : array of Integer; Count : Integer)
19461: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
19462: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
19463: Procedure SinCose( X : Extended; out Sin, Cos : Extended)
19464: Procedure Site( const ACommand : string)
19465: Procedure SkipEOL
19466: Procedure Sleep( ATime : cardinal)
19467: Procedure Sleep( milliseconds : Cardinal)
19468: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
19469: Procedure Slinenumbers1Click( Sender : TObject)
19470: Procedure Sort
19471: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
19472: procedure SoundAlarm; //beep seq
19473: procedure Speak(const sText: string) //async like voice
19474: procedure Speak2(const sText: string) //sync
19475: procedure Split(Str: string; SubStr: string; List: TStrings);
19476: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
19477: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)
19478: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
19479: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings)
19480: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
19481: procedure SQLSyntax1Click(Sender: TObject);
19482: Procedure SRand( Seed : RNG_IntType)
19483: Procedure Start
19484: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
19485: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
19486: //Ex. StartFileFinder3(exepath+'exercises', '*.pas', 'record', false, seclist);
19487: Procedure StartTransaction( TransDesc : TTransactionDesc)
19488: Procedure Status( var AStatusList : TStringList)
19489: Procedure StatusBar1DblClick( Sender : TObject)
19490: Procedure StepInto1Click( Sender : TObject)
19491: Procedure StepIt
19492: Procedure StepOut1Click( Sender : TObject)
19493: Procedure Stop
19494: procedure stopmp3;
19495: procedure StartWeb(aurl: string);
19496: Procedure StrToInt( integer; astr: string); //of system
19497: Procedure StrDispose( Str : PChar)
19498: procedure StrDispose(Str: PChar)
19499: Procedure StrReplace(var Str: String; Old, New: String);
19500: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
19501: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
19502: Procedure StringToBytes( Value : String; Bytes : array of byte)
19503: procedure StrSet(c : Char; I : Integer; var s : String);
19504: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
19505: Procedure StructureMount( APath : String)
19506: procedure STYLECHANGED(SENDER:TOBJECT)
19507: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
19508: procedure Succ(X: int64);
19509: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
19510: procedure SwapChar(var X,Y: char); //swapX follows
19511: Procedure SwapFloats( var X, Y : Float)
19512: procedure SwapGrid(grd: TStringGrid);
19513: Procedure SwapOrd( var I, J : Byte);
19514: Procedure SwapOrd( var X, Y : Integer)
19515: Procedure SwapOrd1( var I, J : Shortint);
19516: Procedure SwapOrd2( var I, J : Smallint);
19517: Procedure SwapOrd3( var I, J : Word);
19518: Procedure SwapOrd4( var I, J : Integer);
19519: Procedure SwapOrd5( var I, J : Cardinal);
19520: Procedure SwapOrd6( var I, J : Int64);
19521: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
19522: Procedure Synchronize( Method : TMethod);
19523: procedure SyntaxCheck1Click(Sender: TObject);
19524: Procedure SysFreeString(const S: WideString); stdcall;
19525: Procedure TakeOver( Other : TLinearBitmap)
19526: Procedure Talkln(const sText: string) //async voice
19527: procedure tbtn6resClick(Sender: TObject);
19528: Procedure tbtnUseCaseClick( Sender : TObject)
19529: procedure TerminalStyle1Click(Sender: TObject);
19530: Procedure Terminate
19531: Procedure texSyntax1Click( Sender : TObject)
19532: procedure TextOut(X, Y: Integer; Text: string);
19533: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
19534: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
19535: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);

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19536: Procedure TextStart
19537: procedure TILE
19538: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
19539: Procedure TitleClick( Column : TColumn)
19540: Procedure ToDo
19541: procedure toolbtnTutorialClick(Sender: TObject);
19542: Procedure Trace1( AURL : string; const AResponseContent : TStream);
19543: Procedure TransferMode( ATransferMode : TIIdFTPTTransferMode)
19544: Procedure Truncate
19545: procedure Tutorial101Click(Sender: TObject);
19546: procedure Tutorial10Statistics1Click(Sender: TObject);
19547: procedure Tutorial11Forms1Click(Sender: TObject);
19548: procedure Tutorial12SQL1Click(Sender: TObject);
19549: Procedure tutorial1Click( Sender : TObject)
19550: Procedure tutorial21Click( Sender : TObject)
19551: Procedure tutorial31Click( Sender : TObject)
19552: Procedure tutorial4Click( Sender : TObject)
19553: Procedure Tutorial5Click( Sender : TObject)
19554: procedure Tutorial6Click(Sender: TObject);
19555: procedure Tutorial91Click(Sender: TObject);
19556: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
19557: procedure UniqueString(var str: AnsiString)
19558: procedure UnloadLoadPackage(Module: HMODULE)
19559: Procedure Unlock
19560: Procedure UNMERGE( MENU : TMAINMENU)
19561: Procedure UnRegisterChanges( Value : TChangeLink)
19562: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
19563: Procedure UnregisterConversionType( const AType : TConvType)
19564: Procedure UnRegisterProvider( Prov : TCustomProvider)
19565: Procedure UPDATE
19566: Procedure UpdateBatch( AffectRecords : TAffectRecords)
19567: Procedure UPDATECURSORPOS
19568: Procedure UpdateFile
19569: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
19570: Procedure UpdateResponse( AResponse : TWebResponse)
19571: Procedure UpdateScrollBar
19572: Procedure UpdateView1Click( Sender : TObject)
19573: procedure Val(const s: string; var n, z: Integer)
19574: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
19575: Procedure VarFTMBcdCreate( var ADest : Variant; const ABcd : TBcd);
19576: Procedure VariantAdd( const src : Variant; var dst : Variant)
19577: Procedure VariantAnd( const src : Variant; var dst : Variant)
19578: Procedure VariantArrayRedim( var V : Variant; High : Integer)
19579: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
19580: Procedure VariantClear( var V : Variant)
19581: Procedure VariantCpy( const src : Variant; var dst : Variant)
19582: Procedure VariantDiv( const src : Variant; var dst : Variant)
19583: Procedure VariantMod( const src : Variant; var dst : Variant)
19584: Procedure VariantMul( const src : Variant; var dst : Variant)
19585: Procedure VariantOr( const src : Variant; var dst : Variant)
19586: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
19587: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
19588: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
19589: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
19590: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
19591: Procedure VariantShl( const src : Variant; var dst : Variant)
19592: Procedure VariantShr( const src : Variant; var dst : Variant)
19593: Procedure VariantSub( const src : Variant; var dst : Variant)
19594: Procedure VariantXor( const src : Variant; var dst : Variant)
19595: Procedure VarCastError;
19596: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
19597: Procedure VarInvalidOp
19598: Procedure VarInvalidNullOp
19599: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
19600: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
19601: Procedure VarArrayCreateError
19602: Procedure VarResultCheck( AResult : HRESULT);
19603: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
19604: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
19605: Function VarTypeAsText( const AType : TVarType) : string
19606: procedure Voice(const sText: string) //async
19607: procedure Voice2(const sText: string) //sync
19608: Procedure WaitMiliSeconds( AMSec : word)
19609: Procedure WaitMS( AMSec : word)');
19610: procedure WebCamPic(picname: string); //eg: c:\mypic.png
19611: Procedure WideAppend( var dst : WideString; const src : WideString)
19612: Procedure WideAssign( var dst : WideString; var src : WideString)
19613: Procedure WideDelete( var dst : WideString; index, count : Integer)
19614: Procedure WideFree( var s : WideString)
19615: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
19616: Procedure WideFromPChar( var dst : WideString; src : PChar)
19617: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
19618: Procedure WideStringSetLength( var dst : WideString; len : Integer)
19619: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
19620: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
19621: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
19622: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
19623: Procedure HttpGet(const Url: string; Stream:TStream);
19624: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIIdBytes; Index : integer)

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19625: Procedure WordWrap1Click( Sender : TObject )
19626: Procedure Write( const AOut : string )
19627: Procedure Write( Socket : TSocket )
19628: procedure Write(S: string);
19629: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream )
19630: Procedure WriteBool( const Section, Ident : string; Value : Boolean )
19631: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean )
19632: procedure WriteBuffer(Buffer:String;Count:LongInt)
19633: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean )
19634: Procedure WriteChar( AValue : Char )
19635: Procedure WriteDate( const Section, Name : string; Value : TDateTime )
19636: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime )
19637: Procedure WriteFloat( const Section, Name : string; Value : Double )
19638: Procedure WriteHeader( AHeader : TStrings )
19639: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean )
19640: Procedure WriteInteger( const Section, Ident : string; Value : Longint )
19641: Procedure WriteLn( const AOut : string )
19642: procedure Writeln(s: string);
19643: Procedure WriteLog( const FileName, LogLine : string )
19644: Procedure WriteRFCReply( AReply : TIdRFCReply )
19645: Procedure WriteRFCStrings( AStrings : TStrings )
19646: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean )
19647: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASIZE:Int)
19648: Procedure WriteString( const Section, Ident, Value : String )
19649: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean )
19650: Procedure WriteTime( const Section, Name : string; Value : TDateTime )
19651: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream )
19652: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream )
19653: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream )
19654: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String)');
19655: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
19656: procedure XMLSyntax1Click(Sender: TObject);
19657: Procedure XOR_Streams2( Dest, Srce : TMemoryStream )
19658: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream )
19659: Procedure ZeroFillStream( Stream : TMemoryStream )
19660: procedure XMLSyntax1Click(Sender: TObject);
19661: Procedure ZeroMemory( Ptr : Pointer; Length : Longint )
19662: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
19663: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
19664: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
19665: procedure(Sender, Source: TObject; X, Y: Integer)
19666: procedure(Sender, Target: TObject; X, Y: Integer)
19667: procedure(Sender: TObject; ASection, AWidth: Integer)
19668: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
19669: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
19670: procedure(Sender: TObject; var Action: TCloseAction)
19671: procedure(Sender: TObject; var CanClose: Boolean)
19672: procedure(Sender: TObject; var Key: Char);
19673: ProcedureName ProcedureNames ProcedureParametersCursor @
19674:
19675: *****Now Constructors constructor *****
19676: Size is: 1248 1115 996 628 550 544 501 459 (381)
19677: Attach( VersionInfoData : Pointer; Size : Integer )
19678: constructor Create( ABuckets : TBucketListSizes )
19679: Create( ACallBackWnd : HWND )
19680: Create( AClient : TCustomTaskDialog )
19681: Create( AClient : TIdTelnet )
19682: Create( ACollection : TCollection )
19683: Create( ACollection : TFavoriteLinkItems )
19684: Create( ACollection : TTaskDialogButtons )
19685: Create( AConnection : TIdCustomHTTP )
19686: Create( ACreateSuspended : Boolean )
19687: Create( ADataSet : TCustomSQLDataSet )
19688: CREATE( ADATASET : TDATASET )
19689: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet );
19690: Create( AGrid : TCustomDBGrid )
19691: Create( AGrid : TStringGrid; AIIndex : Longint )
19692: Create( AHTTE : TIdCustomHTTP )
19693: Create( AListItems : TListItems )
19694: Create( AOnBytesRemoved : TIdBufferBytesRemoved )
19695: Create( AOnBytesRemoved : TIdBufferBytesRemoved )
19696: Create( AOwner : TCommonCalendar )
19697: Create( AOwner : TComponent )
19698: CREATE( AOWNER : TCOMPONENT )
19699: Create( AOwner : TCustomListView )
19700: Create( AOwner : TCustomOutline )
19701: Create( AOwner : TCustomRichEdit )
19702: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType )
19703: Create( AOwner : TCustomTreeView )
19704: Create( AOwner : TIdUserManager )
19705: Create( AOwner : TListItems )
19706: Create(AOwner:TObj;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvt:TBDECallbkEvt;Chain:Bool)
19707: CREATE( AOWNER : TPERSISTENT )
19708: Create( AOwner : TPersistent )
19709: Create( AOwner : TTable )
19710: Create( AOwner : TTreenodes )
19711: Create( AOwner : TWinControl; const ClassName : string )
19712: Create( AParent : TIdCustomHTTP )
19713: Create( AParent : TUpdateTree; AResolver : TCustomResolver )

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19714: Create( AProvider : TBaseProvider)
19715: Create( AProvider : TCustomProvider);
19716: Create( AProvider : TDataSetProvider)
19717: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
19718: Create( ASocket : TSocket)
19719: Create( AStrings : TWideStrings)
19720: Create( AToolBar : TToolBar)
19721: Create( ATreeNodes : TTreeNodes)
19722: Create( Autofill : boolean)
19723: Create( AWebPageInfo : TABstractWebPageInfo)
19724: Create( AWebRequest : TWebRequest)
19725: Create( Collection : TCollection)
19726: Create( Collection : TIdMessageParts; ABody : TStrings)
19727: Create( Collection : TIdMessageParts; const AFileName : TFileName)
19728: Create( Column : TColumn)
19729: Create( const AConvFamily : TConvFamily; const ADescription : string)
19730: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
19731: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc)
19732: Create( const AInitialState : Boolean; const AManualReset : Boolean)
19733: Create( const ATabSet : TTabSet)
19734: Create( const Compensate : Boolean)
19735: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
19736: Create( const FileName : string)
19737: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes);
19738: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
19739: Create( const MaskValue : string)
19740: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
19741: Create( const Prefix : string)
19742: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
19743: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
19744: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
19745: Create( CoolBar : TCoolBar)
19746: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
19747: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
19748: Create( DataSet : TDataSet; const
  Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
  DeptBits : TBits; FieldMap : TFieldMap)
19749: Create( DBCtrlGrid : TDBCctrlGrid)
19750: Create( DSTableProducer : TDSTableProducer)
19751: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
19752: Create( ErrorCode : DBResult)
19753: Create( Field : TBlobField; Mode : TBlobStreamMode)
19754: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
19755: Create( HeaderControl : TCustomHeaderControl)
19756: Create( HTTPRequest : TWebRequest)
19757: Create( iStart : integer; sText : string)
19758: Create( iValue : Integer)
19759: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
19760: Create( MciErrNo : MCIEERROR; const Msg : string)
19761: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
19762: Create( Message : string; ErrorCode : DBResult)
19763: Create( Msg : string)
19764: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
19765: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
19766: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
19767: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
19768: Create(oSource:TniRegularExpression; oDestination:TniRegularExpression;xCharacts:TCharSet;bLambda:bool)
19769: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
19770: Create( Owner : TCustomComboBoxEx)
19771: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: string; OPTIONS: TINDEXOPTIONS)
19772: Create( Owner : TPersistent)
19773: Create( Params : TStrings)
19774: Create( Size : Cardinal)
19775: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
19776: Create( StatusBar : TCustomStatusbar)
19777: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
19778: Create(WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
19779: Create(AHandle:Integer)
19780: Create(AOwner: TComponent); virtual;
19781: Create(const AURI : string)
19782: Create(FileName:String;Mode:Word)
19783: Create(Instance:THandle;ResName:String;ResType:PChar)
19784: Create(Stream : TStream)
19785: Create(ADataset : TDataset);
19786: Create(OfFileHandle:THandle;const Name:string;Protect:Cardinal;const MaximumSize:Int64;const
  SecAttr:PSecurityAttributes);
19787: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
19788: Create2( Other : TObject);
19789: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
19790: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
19791: CreateFmt( MciErrNo : MCIEERROR; const Msg : string; const Args : array of const)
19792: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
19793: CreateLinked( DBCtrlGrid : TDBCctrlGrid)
19794: CREATE(OWNER:TCOMPONENT; Dummy: Integer)
19795: CreateRes( Ident : Integer);
19796: CreateRes( MciErrNo : MCIEERROR; Ident : Integer)
19797: CreateRes( ResStringRec : PResStringRec);

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19798: CreateResHelp( Ident : Integer; AHelpContext : Integer);
19799: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
19800: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
19801: CreateSize( AWidth, AHeight : Integer)
19802: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
19803:
19804: -----
19805: unit UPSI_MathMax;
19806: -----
19807: CONSTS
19808: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
19809: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
19810: Cbrt3: Float = 1.4422495703704808323216383107801; // CubeRoot(3)
19811: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
19812: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
19813: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
19814: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
19815: PiJ: Float = 3.1415926535897932384626433832795; // PI
19816: PI: Extended = 3.1415926535897932384626433832795;
19817: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
19818: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
19819: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
19820: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
19821: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
19822: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
19823: Sqrt10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
19824: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(PI)
19825: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
19826: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
19827: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
19828: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
19829: Ln10: Float = 2.302850929940456840179914546844; // Ln(10)
19830: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
19831: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
19832: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
19833: LogPi: Float = 0.4971498726941338543512682882909; // Log10(PI)
19834: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
19835: E: Float = 2.7182818284590452353602874713527; // Natural constant
19836: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
19837: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
19838: TwoToPower63: Float = 9223372036854775808.0; // 2^63
19839: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
19840: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
19841: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
19842: StDelta : Extended = 0.00001; {delta for difference equations}
19843: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
19844: StMaxIterations : Integer = 100; {max attempts for convergence}
19845:
19846: procedure SIRegister_StdConvs(CL: TPSPPascalCompiler);
19847: begin
19848:   MetersPerInch = 0.0254; // [1]
19849:   MetersPerFoot = MetersPerInch * 12;
19850:   MetersPerYard = MetersPerFoot * 3;
19851:   MetersPerMile = MetersPerFoot * 5280;
19852:   MetersPerNauticalMiles = 1852;
19853:   MetersPerAstronomicalUnit = 1.49598Ell; // [4]
19854:   MetersPerLightSecond = 2.99792458E8; // [5]
19855:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
19856:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
19857:   MetersPerCubit = 0.4572; // [6][7]
19858:   MetersPerFathom = MetersPerFoot * 6;
19859:   MetersPerFurlong = MetersPerYard * 220;
19860:   MetersPerHand = MetersPerInch * 4;
19861:   MetersPerPace = MetersPerInch * 30;
19862:   MetersPerRod = MetersPerFoot * 16.5;
19863:   MetersPerChain = MetersPerRod * 4;
19864:   MetersPerLink = MetersPerChain / 100;
19865:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
19866:   MetersPerPica = MetersPerPoint * 12;
19867:
19868:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
19869:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
19870:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
19871:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
19872:   SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
19873:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
19874:
19875:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
19876:   CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
19877:   CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
19878:   CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
19879:   CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
19880:   CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
19881:   CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
19882:   CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
19883:
19884:   CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
19885:   CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
19886:   CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;

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19887: CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
19888: CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
19889: CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
19890: CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
19891: CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
19892:
19893: CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
19894: CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
19895: CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
19896: CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
19897: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
19898: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
19899:
19900: CubicMetersPerUKGallon = 0.00454609; // [2][7]
19901: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
19902: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
19903: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
19904: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
19905: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
19906: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
19907: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
19908: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
19909:
19910: GramsPerPound = 453.59237; // [1][7]
19911: GramsPerDrams = GramsPerPound / 256;
19912: GramsPerGrains = GramsPerPound / 7000;
19913: GramsPerTons = GramsPerPound * 2000;
19914: GramsPerLongTons = GramsPerPound * 2240;
19915: GramsPerOunces = GramsPerPound / 16;
19916: GramsPerStones = GramsPerPound * 14;
19917:
19918: MaxAngle 9223372036854775808.0;
19919: MaxTanhH 5678.2617031470719747459655389854);
19920: MaxFactorial( 1754);
19921: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
19922: MinFloatingPoint(1.3621031431120935062626778173218E-4932);
19923: MaxTanH( 354.89135644669199842162284618659);
19924: MaxFactorial'LongInt'( 170);
19925: MaxFloatingPointD(1.797693134862315907729305190789E+308);
19926: MinFloatingPointD(2.2250738585072013830902327173324E-308);
19927: MaxTanH( 44.361419555836499802702855773323);
19928: MaxFactorial'LongInt'( 33);
19929: MaxFloatingPointS( 3.4028236692093846346337460743177E+38);
19930: MinFloatingPointS( 1.1754943508222875079687365372222E-38);
19931: PiExt( 3.1415926535897932384626433832795);
19932: RatioDegToRad( PiExt / 180.0);
19933: RatioGradToRad( PiExt / 200.0);
19934: RatioDegToGrad( 200.0 / 180.0);
19935: RatioGradToDeg( 180.0 / 200.0);
19936: Crc16PolynomCCITT'LongWord' $1021);
19937: Crc16PolynomIBM'LongWord' $8005);
19938: Crc16Bits'LongInt'( 16);
19939: Crc16Bytes'LongInt'( 2);
19940: Crc16HighBit'LongWord' $8000);
19941: NotCrc16HighBit', 'LongWord' $7FFF);
19942: Crc32PolynomIEEE', 'LongWord' $04C11DB7);
19943: Crc32PolynomCastagnoli', 'LongWord' $1EDC6F41);
19944: Crc32Koopman', 'LongWord' $741B8CD7);
19945: Crc32Bits', 'LongInt'( 32);
19946: Crc32Bytes', 'LongInt'( 4);
19947: Crc32HighBit', 'LongWord' $80000000);
19948: NotCrc32HighBit', 'LongWord' $7FFFFFFF);
19949:
19950: MinByte      = Low(Byte);
19951: MaxByte      = High(Byte);
19952: MinWord      = Low(Word);
19953: MaxWord      = High(Word);
19954: MinShortInt  = Low(ShortInt);
19955: MaxShortInt  = High(ShortInt);
19956: MinSmallInt  = Low(SmallInt);
19957: MaxSmallInt  = High(SmallInt);
19958: MinLongWord  = LongWord(Low(LongWord));
19959: MaxLongWord  = LongWord(High(LongWord));
19960: MinLongInt   = LongInt(Low(LongInt));
19961: MaxLongInt   = LongInt(High(LongInt));
19962: MinInt64     = Int64(Low(Int64));
19963: MaxInt64     = Int64(High(Int64));
19964: MinInteger   = Integer(Low(Integer));
19965: MaxInteger   = Integer(High(Integer));
19966: MinCardinal  = Cardinal(Low(Cardinal));
19967: MaxCardinal  = Cardinal(High(Cardinal));
19968: MinNativeUInt = NativeUInt(Low(NativeUInt));
19969: MaxNativeUInt = NativeUInt(High(NativeUInt));
19970: MinNativeInt  = NativeInt(Low(NativeInt));
19971: MaxNativeInt  = NativeInt(High(NativeInt));
19972: Function CosH( const Z : Float) : Float;
19973: Function SinH( const Z : Float) : Float;
19974: Function TanH( const Z : Float) : Float;
19975:

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19976: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
19977: InvLn2      = 1.44269504088896340736; { 1/Ln(2) }
19978: InvLn10     = 0.43429448190325182765; { 1/Ln(10) }
19979: TwoPi       = 6.28318530717958647693; { 2*Pi }
19980: PiDiv2     = 1.57079632679489661923; { Pi/2 }
19981: SqrtPi     = 1.77245385090551602730; { Sqrt(Pi) }
19982: Sqrt2Pi    = 2.50662827463100050242; { Sqrt(2*Pi) }
19983: InvSqrt2Pi = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
19984: LnSqrt2Pi  = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
19985: Ln2PiDiv2  = 0.91893853320467274178; { Ln(2*Pi)/2 }
19986: Sqrt2      = 1.41421356237309504880; { Sqrt(2) }
19987: Sqrt2Div2  = 0.70710678118654752440; { Sqrt(2)/2 }
19988: Gold       = 1.61803398874989484201; { Golden Mean = (1 + Sqrt(5))/2 }
19989: CGold      = 0.38196601125010515179; { 2 - GOLD }
19990: MachEp     = 2.220446049250313E-16; { 2^(-52) }
19991: MaxNum     = 1.797693134862315E+308; { 2^1024 }
19992: MinNum     = 2.225073858507202E-308; { 2^(-1022) }
19993: MaxLog     = 709.7827128933840;
19994: MinLog     = -708.3964185322641;
19995: MaxFac     = 170;
19996: MaxGam     = 171.624376956302;
19997: MaxLgm     = 2.556348E+305;
19998: SingleCompareDelta = 1.0E-34;
19999: DoubleCompareDelta = 1.0E-280;
20000: {#IFDEF CLR}
20001: ExtendedCompareDelta = DoubleCompareDelta;
20002: {#ELSE}
20003: ExtendedCompareDelta = 1.0E-4400;
20004: {#ENDIF}
20005: Bytes1KB   = 1024;
20006: Bytes1MB   = 1024 * Bytes1KB;
20007: Bytes1GB   = 1024 * Bytes1MB;
20008: Bytes64KB  = 64 * Bytes1KB;
20009: Bytes64MB  = 64 * Bytes1MB;
20010: Bytes2GB   = 2 * LongWord(Bytes1GB);
20011: clBlack32' , $FF000000 );
20012: clDimGray32' , $FF3F3F3F );
20013: clGray32' , $FF7F7F7F );
20014: clLightGray32' , $FFBFBFBF );
20015: clWhite32' , $FFFFFF );
20016: clMaroon32' , $FF7F0000 );
20017: clGreen32' , $FF007F00 );
20018: clOlive32' , $FF7F7F00 );
20019: clNavy32' , $FF00007F );
20020: clPurple32' , $FF7F007F );
20021: clTeal32' , $FF007F7F );
20022: clRed32' , $FFFF0000 );
20023: clLime32' , $FF00FF00 );
20024: clYellow32' , $FFFFFF00 );
20025: clBlue32' , $FF0000FF );
20026: clFuchsia32' , $FFFF00FF );
20027: clAqua32' , $FF00FFFF );
20028: clAliceBlue32' , $FFF0F8FF );
20029: clAntiqueWhite32' , $FFFAEBD7 );
20030: clAquamarine32' , $FF7FFFDD );
20031: clAzure32' , $FFF0FFFF );
20032: clBeige32' , $FFF5F5DC );
20033: clBisque32' , $FFFFE4C4 );
20034: clBlancheDalmond32' , $FFFFEBCD );
20035: clBlueViolet32' , $FF8A2BE2 );
20036: clBrown32' , $FFA52A2A );
20037: clBurlyWood32' , $FFDEB887 );
20038: clCadetblue32' , $FF5F9EA0 );
20039: clChartReuse32' , $FF7FFF00 );
20040: clChocolate32' , $FFD2691E );
20041: clCoral32' , $FFFF7F50 );
20042: clCornFlowerBlue32' , $FF6495ED );
20043: clCornSilk32' , $FFFFF8DC );
20044: clCrimson32' , $FFDC143C );
20045: clDarkBlue32' , $FF00008B );
20046: clDarkCyan32' , $FF008B8B );
20047: clDarkGoldenRod32' , $FFB8860B );
20048: clDarkGray32' , $FFA9A9A9 );
20049: clDarkGreen32' , $FF006400 );
20050: clDarkGrey32' , $FFA9A9A9 );
20051: clDarkKhaki32' , $FFEBDB76 );
20052: clDarkMagenta32' , $FF8B008B );
20053: clDarkOliveGreen32' , $FF556B2F );
20054: clDarkOrange32' , $FFFF8C00 );
20055: clDarkOrchid32' , $FF9932CC );
20056: clDarkRed32' , $FF8B0000 );
20057: clDarkSalmon32' , $FFE9967A );
20058: clDarkSeaGreen32' , $FF8FB88F );
20059: clDarkSlateBlue32' , $FF483D8B );
20060: clDarkSlateGray32' , $FF2F4F4F );
20061: clDarkSlateGrey32' , $FF2F4F4F );
20062: clDarkTurquoise32' , $FF00CED1 );
20063: clDarkViolet32' , $FF9400D3 );
20064: clDeepPink32' , $FFFF1493 );

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20065:    clDeepSkyBlue32', $FF00BFFF ));  
20066:    clDodgerBlue32', $FFF1E90FF ));  
20067:    clFireBrick32', $FFB22222 ));  
20068:    clFloralWhite32', $FFFFFFAF0 ));  
20069:    clGainsboro32', $FFDCDCDC ));  
20070:    clGhostWhite32', $FFF8F8FF ));  
20071:    clGold32', $FFFFD700 ));  
20072:    clGoldenRod32', $FFDA520 ));  
20073:    clGreenYellow32', $FFADFF2F ));  
20074:    clGrey32', $FF808080 ));  
20075:    clHoneyDew32', $FFF0FFF0 ));  
20076:    clHotPink32', $FFFF69B4 ));  
20077:    clIndianRed32', $FFCD5C5C ));  
20078:    clIndigo32', $FF4B0082 ));  
20079:    clIvory32', $FFFFFFF0 ));  
20080:    clKhaki32', $FFF0E68C ));  
20081:    clLavender32', $FFE6E6FA ));  
20082:    clLavenderBlush32', $FFFFFF0F5 ));  
20083:    clLawnGreen32', $FF7FCFC00 ));  
20084:    clLemonChiffon32', $FFFFFFACD ));  
20085:    clLightBlue32', $FFADD8E6 ));  
20086:    clLightCoral32', $FFF08080 ));  
20087:    clLightCyan32', $FFE0FFFF ));  
20088:    clLightGoldenRodYellow32', $FFFAFAD2 ));  
20089:    clLightGreen32', $FF90EE90 ));  
20090:    clLightGrey32', $FFD3D3D3 ));  
20091:    clLightPink32', $FFFFB6C1 ));  
20092:    clLightSalmon32', $FFFA07A ));  
20093:    clLightSeagreen32', $FF20B2AA ));  
20094:    clLightSkyblue32', $FF87CEFA ));  
20095:    clLightSlategray32', $FF778899 ));  
20096:    clLightSlategrey32', $FF778899 ));  
20097:    clLightSteelblue32', $FFBC04DE ));  
20098:    clLightYellow32', $FFFFFFE0 ));  
20099:    clLtGray32', $FFC0C0C0 ));  
20100:    clMedGray32', $FFA0A0A4 ));  
20101:    clDkGray32', $FF808080 ));  
20102:    clMoneyGreen32', $FFC0DCC0 ));  
20103:    clLegacySkyBlue32', $FFA6CAF0 ));  
20104:    clCream32', $FFFFFFBF0 ));  
20105:    clLimeGreen32', $FF32CD32 ));  
20106:    clLinene32', $FFFAF0E6 ));  
20107:    clMediumAquamarine32', $FF66CDAA ));  
20108:    clMediumBlue32', $FF0000CD ));  
20109:    clMediumOrchid32', $FFBA55D3 ));  
20110:    clMediumPurple32', $FF9370DB ));  
20111:    clMediumSeaGreen32', $FF3CB371 ));  
20112:    clMediumSlateBlue32', $FF7B68EE ));  
20113:    clMediumSpringGreen32', $FF00FA9A ));  
20114:    clMediumTurquoise32', $FF48D1CC ));  
20115:    clMediumVioletRed32', $FFC71585 ));  
20116:    clMidnightBlue32', $FF191970 ));  
20117:    clMintCream32', $FFF5FFFA ));  
20118:    clMistyRose32', $FFFFFFE4E1 ));  
20119:    clMoccasin32', $FFFFFFE4B5 ));  
20120:    clNavajoWhite32', $FFFFFDEAD ));  
20121:    clOldLace32', $FFFDF5E6 ));  
20122:    clOliveDrab32', $FF6B8E23 ));  
20123:    clOrange32', $FFFA500 ));  
20124:    clOrangeRed32', $FFFFFF4500 ));  
20125:    clOrchid32', $FFDA70D6 ));  
20126:    clPaleGoldenRod32', $FFEEE8AA ));  
20127:    clPaleGreen32', $FF98FB98 ));  
20128:    clPaleTurquoise32', $FFAFEEEE ));  
20129:    clPaleVioletred32', $FFDB7093 ));  
20130:    clPapayaWhip32', $FFFFFFFD5 ));  
20131:    clPeachPuff32', $FFFFFFDAB9 ));  
20132:    clPeru32', $FFCD853F ));  
20133:    clPlum32', $FFDDA0DD ));  
20134:    clPowderBlue32', $FFB0E0E6 ));  
20135:    clRosyBrown32', $FFBC8F8F ));  
20136:    clRoyalBlue32', $FF4169E1 ));  
20137:    clSaddleBrown32', $FF8B4513 ));  
20138:    clSalmon32', $FFFA8072 ));  
20139:    clSandyBrown32', $FFB4A460 ));  
20140:    clSeaGreen32', $FF2E8B57 ));  
20141:    clSeaShell32', $FFFFFF5EE ));  
20142:    clSienna32', $FFA0522D ));  
20143:    clSilver32', $FFC0C0C0 ));  
20144:    clSkyblue32', $FF87CEEB ));  
20145:    clSlateBlue32', $FF6A5ACD ));  
20146:    clSlateGray32', $FF708090 ));  
20147:    clSlateGrey32', $FF708090 ));  
20148:    clSnow32', $FFFFFFFAFA ));  
20149:    clSpringgreen32', $FF00FF7F ));  
20150:    clSteelblue32', $FF4682B4 ));  
20151:    clTan32', $FFD2B48C ));  
20152:    clThistle32', $FFD8BFD8 ));  
20153:    clTomato32', $FFFF6347 ));
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20154:     clTurquoise32', $FF40E0D0 ));
20155:     clViolet32', $FFEE82EE ));
20156:     clWheat32', $FFF5DEB3 ));
20157:     clWhitesmoke32', $FFF5F5F5 ));
20158:     clYellowgreen32', $FF9ACD32 ));
20159:     clTrWhite32', $7FFFFFFF ));
20160:     clTrBlack32', $7F000000 ));
20161:     clTrRed32', $7FFF0000 ));
20162:     clTrGreen32', $7F00FF00 ));
20163:     clTrBlue32', $7F0000FF ));
20164: // Fixed point math constants
20165: FixedOne = $10000; FixedHalf = $7FFF;
20166: FixedPI = Round(PI * FixedOne);
20167: FixedToFloat = 1/FixedOne;
20168:
20169: Special Types
20170: ****
20171: type Complex = record
20172:   X, Y : Float;
20173: end;
20174: type TVector      = array of Float;
20175: TIntVector    = array of Integer;
20176: TCompVector   = array of Complex;
20177: TBoolVector   = array of Boolean;
20178: TStringVector = array of String;
20179: TMatrix        = array of TVector;
20180: TIntMatrix    = array of TIntVector;
20181: TCompMatrix   = array of TCompVector;
20182: TBoolMatrix   = array of TBoolVector;
20183: TStringMatrix = array of TStringVector;
20184: TByteArray    = array[0..32767] of byte; !
20185: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
20186: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);
20187: T2StringArray = array of array of string;
20188: T2IntegerArray = array of array of integer;
20189: AddTypes('INT_PTR', 'Integer');
20190: AddTypes('LONG_PTR', 'Integer');
20191: AddTypes('UINT_PTR', 'Cardinal');
20192: AddTypes('ULONG_PTR', 'Cardinal');
20193: AddTypes('DWORD_PTR', 'ULONG_PTR');
20194: TIntegeDynArray', 'array of Integer;
20195: TCardinalDynArray', 'array of Cardinal;
20196: TWordDynArray', 'array of Word;
20197: TSmallIntDynArray', 'array of SmallInt;
20198: TByteDynArray', 'array of Byte;
20199: TShortIntDynArray', 'array of ShortInt;
20200: TInt64DynArray', 'array of Int64;
20201: TLongWordDynArray', 'array of LongWord;
20202: TSinglDynArray', 'array of Single;
20203: TDoubleDynArray', 'array of Double;
20204: TBooleanDynArray', 'array of Boolean;
20205: TStringDynArray', 'array of string;
20206: TWideStringDynArray', 'array of WideString;
20207: TDynByteArray   = array of Byte;
20208: TDynShortintArray = array of Shortint;
20209: TDynSmallintArray = array of Smallint;
20210: TDynWordArray   = array of Word;
20211: TDynIntegerArray = array of Integer;
20212: TDynLongintArray = array of Longint;
20213: TDynCardinalArray = array of Cardinal;
20214: TDynInt64Array  = array of Int64;
20215: TDynExtendedArray = array of Extended;
20216: TDynDoubleArray  = array of Double;
20217: TDynSingleArray   = array of Single;
20218: TDynFloatArray   = array of Float;
20219: TDynPointerArray  = array of Pointer;
20220: TDynStringArray   = array of string;
20221: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
20222:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
20223: TSynSearchOptions = set of TSynSearchOption;
20224:
20225:
20226: /* Project : Base Include RunTime Lib for maxbox *Name: pas_includebox.inc
20227: -----
20228: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
20229: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
20230: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
20231: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
20232: function CheckStringSum(vstring: string): integer;
20233: function HexToInt(HexNum: string): LongInt;
20234: function IntToBin(Int: Integer): String;
20235: function BinToInt(Binary: String): Integer;
20236: function HexToBin(HexNum: string): string; external2;
20237: function BinToHex(Binary: String): string;
20238: function IntToFloat(i: Integer): double;
20239: function AddThousandSeparator(S: string; myChr: Char): string;
20240: function Max3(const X,Y,Z: Integer): Integer;
20241: procedure Swap(var X,Y: char); // faster without inline
20242: procedure ReverseString(var S: String);

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20243: function CharToHexStr(Value: Char): string;
20244: function CharToUniCode(Value: Char): string;
20245: function Hex2Dec(Value: Str002): Byte;
20246: function HexStrCodeToStr(Value: string): string;
20247: function HexToStr(i: integer; value: string): string;
20248: function UniCodeToStr(Value: string): string;
20249: function CRC16(statement: string): string;
20250: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
20251: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
20252: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
20253: Procedure ExecuteCommand(executeFile, paramstring: string);
20254: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
20255: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
20256: procedure SearchAndOpenDoc(vfilenamepath: string);
20257: procedure ShowInterfaces(myFile: string);
20258: function Fact2(av: integer): extended;
20259: Function BoolToStr(B: Boolean): string;
20260: Function GCD(x, y: LongInt) : LongInt;
20261: function LCM(m,n: longint): longint;
20262: function GetASCII: string;
20263: function GetItemHeight(Font: TFont): Integer;
20264: function myPlaySound(s: pchar; flag,syncflag: integer): boolean;
20265: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
20266: function getHINSTANCE: longword;
20267: function getHMODULE: longword;
20268: function GetASCII: string;
20269: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
20270: function WordIsOk(const AWord: string; var VW: Word): boolean;
20271: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
20272: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
20273: function SafeStr(const s: string): string;
20274: function ExtractUrlPath(const FileName: string): string;
20275: function ExtractUrlName(const FileName: string): string;
20276: function IsInternet: boolean;
20277: function RotateLeft1Bit_u32( Value: uint32): uint32;
20278: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var LF:TStLinEst; ErrorStats: Bool);
20279: procedure getEnvironmentInfo;
20280: procedure AntiFreeze;
20281: function GetCPUSpeed: Double;
20282: function IsVirtualPcGuest : Boolean;
20283: function IsVmWareGuest : Boolean;
20284: procedure StartSerialDialog;
20285: function IsWow64: boolean;
20286: function IsWow64String(var s: string): Boolean;
20287: procedure StartThreadDemo;
20288: Function RGB(R,G,B: Byte): TColor;
20289: Function Sendln(amess: string): boolean;
20290: Procedure maxbox;
20291: Function AspectRatio(aWidth, aHeight: Integer): String;
20292: function wget(aURL, afile: string): boolean;
20293: procedure PrintList(Value: TStringList);
20294: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
20295: procedure getEnvironmentInfo;
20296: procedure AntiFreeze;
20297: function getBitmap(apath: string): TBitmap;
20298: procedure ShowMessageBig(const aText : string);
20299: function YesNoDialog(const ACaption, AMsg: string): boolean;
20300: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
20301: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
20302: //function myStrToBytes(const Value: String): TBytes;
20303: //function myBytesToStr(const Value: TBytes): String;
20304: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
20305: function getBitmap(apath: string): TBitmap;
20306: procedure ShowMessageBig(const aText : string);
20307: Function StrToBytes(const Value: String): TBytes;
20308: Function BytesToStr(const Value: TBytes): String;
20309: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
20310: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
20311: function FindInPaths(const fileName, paths : String) : String;
20312: procedure initHexArray(var hexn: THexArray);
20313: function josephusG(n,k: integer; var graphout: string): integer;
20314: function isPowerOf2(num: int64): boolean;
20315: function powerOf2(exponent: integer): int64;
20316: function getBigPI: string;
20317: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
20318: function GetASCIILine: string;
20319: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
20320:                                pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
20321: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
20322: procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
20323: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
20324: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
20325: function isKeyPressed: boolean;
20326: function KeyPress: boolean;
20327: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
20328: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
20329: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;

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20330: function GetOSName: string;
20331: function GetOSVersion: string;
20332: function GetOSNumber: string;
20333: function getEnvironmentString: string;
20334: procedure StrReplace(var Str: String; Old, New: String);
20335: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
20336: function getTeamViewerID: string;
20337: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
20338: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
20339: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
20340: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
20341: function StartSocketService: Boolean;
20342: procedure StartSocketServiceForm;
20343: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
20344: function GetFileList1(apath: string): TStringlist;
20345: procedure LetFileList(FileList: TStringlist; apath: string);
20346: procedure StartWeb(NSURL: string);
20347: function GetTodayFiles(startdir, amask: string): TStringlist;
20348: function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;
20349: function JavahashCode(val: string): Integer;
20350: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
20351: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
20352: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
20353: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); { //3 seconds}
20354: Procedure ConvertToGray(Cnv: TCanvas);
20355: function GetFileDate(aFile:string; aWithTime:Boolean):string;
20356: procedure ShowMemory;
20357: function ShowMemory2: string;
20358: function getHostIP: string;
20359: procedure ShowBitmap(bmap: TBitmap);
20360: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
20361: function CreateDBGridForm(dblist: TStringList): TListBox;
20362: function isService: boolean;
20363: function isApplication: boolean;
20364: function isTerminalSession: boolean;
20365: function SetPrivilege(privilegeName: string; enable: boolean): boolean;
20366: procedure getScriptandRunAsk;
20367: procedure getScriptandRun(ascript: string);
20368: function VersionCheckAct: string;
20369: procedure getBox(NSURL, extension: string);
20370: function CheckBox: string;
20371: function isNTFS: boolean;
20372: //procedure doWebCamPic;
20373: procedure doWebCamPic(picname: string);
20374: function readm: string;
20375: procedure getGEOMapandRunAsk;
20376: function GetMapX(C_form,apath: string; const Data: string): boolean;
20377: procedure GetGEOMap(C_form,apath: string; const Data: string);
20378: function GetMapXGeoReverse(C_form: string; const lat,long: string): string;
20379: //function RoundTo(const AValue: Extended;
20380: // const ADigit: TRoundToEXRangeExtended): Extended;
20381: function Downloadfile(SourceFile, DestFile: string): Boolean;
20382: function DownloadFileOpen(SourceFile, DestFile: string): Boolean;
20383: function OpenMap(const Data: string): boolean;
20384: function GetGeoCode(C_form,apath: string; const data: string; sfile: boolean): string;
20385: Function getFileCount(amask: string): integer;
20386: function CoordinateStr(Idx: Integer; PosInSec: Double; PosLn: TNavPos): string;
20387: procedure DebugLn(DebugLOGFILE: string; E: string);
20388: function IntToFloat(i: Integer): double;
20389: function AddThousandsSeparator(S: string; myChr: Char): string;
20390: function mymcSendString(cmd: PChar; ret: PChar; len: integer; callback: integer): cardinal;
20391:
20392:
20393:
20394: // News of 3.9.8 up
20395: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
20396: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
20397: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
20398: JvChart - TJvChart Component - 2009 Public
20399: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
20400: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
20401: TAdoQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions
20402: DMath DLL included incl. Demos
20403: Interface Navigator menu/View/Intf Navigator
20404: Unit Explorer menu/Debug/Units Explorer
20405: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maXcel
20406: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
20407: Script History to 9 Files WebServer light /Options/Addons/WebServer
20408: Full Text Finder, JVSSimLogic Simulator Package
20409: Halt-Stop Program in Menu, WebServer2, Stop Event ,
20410: Conversion Routines, Prebuild Forms, CodeSearch
20411: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
20412: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
20413: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
20414: JvChart - TJvChart Component - 2009 Public, mxGames, JvgXMLLoader, TJvPaintFX
20415: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PDFLib
20416: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
20417: IDE Reflection API, Session Service Shell S3
20418: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)

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20419: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
20420: arduino map() function, PMRandom Generator
20421: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
20422: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
20423: REST Test Lib, Multilang Component, Forth Interpreter
20424: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
20425: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
20426: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
20427: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
20428: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
20429: QRCode Service, add more CFunctions like CDateTime of Synapse
20430: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
20431: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
20432: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
20433: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
20434: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
20435: BOLD Package, Indy Package5, maTRIX. MATHMAX
20436: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
20437: emax layers: system-package-component-unit-class-function-block
20438: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
20439: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
20440: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
20441: OpenGL Game Demo: ..Options/Add Ons/Reversi
20442: IBUtols Refactor, InterBase Package, DotNet Routines (JvExControls)
20443: add 31 units, mx4 Introduction Paper, more Socket&Streams, ShortString Routines
20444: 7% performance gain (hot spot profiling)
20445: PEP -Pascal Education Program , GSM Module, CGI, PHP Runner
20446: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
20447: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
20448: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools, Zeus
20449:
20450: add routines in 3.9.7.5
20451: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEExec);
20452: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEExec);
20453: 069: procedure RIRegister_IdStrings_Routines(S: TPSEExec);
20454: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEExec);
20455: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEExec);
20456: 374: procedure RIRegister_SerDlg_Routines(S: TPSEExec);
20457: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEExec);
20458:
20459: ////////////////////////////// TestUnits //////////////////////////////
20460: SelftestPEM;
20461: SelfTestCFundamentUtils;
20462: SelfTestCFileUtils;
20463: SelfTestCDateTime;
20464: SelfTestCTimer;
20465: SelfTestCRandom;
20466: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
20467:             Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath'
20468:
20469: // Note: There's no need for installing a client certificate in the
20470: // webbrowser. The server asks the webbrowser to send a certificate but
20471: // if nothing is installed the software will work because the server
20472: // doesn't check to see if a client certificate was supplied. If you want you can install:
20473: // file: c_cacert.p12 password: c_cakey
20474:
20475: TGraphicControl = class(TControl)
20476: private
20477:   FCanvas: TCanvas;
20478:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
20479: protected
20480:   procedure Paint; virtual;
20481:   property Canvas: TCanvas read FCanvas;
20482: public
20483:   constructor Create(AOwner: TComponent); override;
20484:   destructor Destroy; override;
20485: end;
20486:
20487: TCustomControl = class(TWinControl)
20488: private
20489:   FCanvas: TCanvas;
20490:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
20491: protected
20492:   procedure Paint; virtual;
20493:   procedure PaintWindow(DC: HDC); override;
20494:   property Canvas: TCanvas read FCanvas;
20495: public
20496:   constructor Create(AOwner: TComponent); override;
20497:   destructor Destroy; override;
20498: end;
20499: RegisterPublishedProperties;
20500: ('ONCHANGE', 'TNotifyEvent', iptrw);
20501: ('ONCLICK', 'TNotifyEvent', iptrw);
20502: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
20503: ('ONENTER', 'TNotifyEvent', iptrw);
20504: ('ONEXIT', 'TNotifyEvent', iptrw);
20505: ('ONKEYDOWN', 'TKeyEvent', iptrw);
20506: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
20507: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);

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20508:     ('ONMOUSEMOVE', 'TMouseEvent', iptrw);
20509:     ('ONMOUSEUP', 'TMouseEvent', iptrw);
20510: //*****
20511: // To stop the while loop, click on Options>Show Include (boolean switch)!
20512: Control a loop in a script with a form event:
20513: IncludeON; //control the while loop
20514: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
20515: repeat {for it:= 1 to n do} until is keypressed //keypress in output window below (memo2)
20516:
20517: //-----
20518: //*****mX4 ini-file Configuration*****
20519: //-----
20520: using config file maxboxdef.ini           menu/Help/Config File
20521:
20522: //*** Definitions for maXbox mX3 ***
20523: [FORM]
20524: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
20525: FONTSIZE=14
20526: EXTENSION=txt
20527: SCREENX=1386
20528: SCREENY=1077
20529: MEMHEIGHT=350
20530: PRINTFONT=Courier New //GUI Settings
20531: LINENUMBERS=Y //line numbers at gutter in editor at left side
20532: EXCEPTIONLOG=Y //store excepts + success in 2 log files see below! -menu Debug>Show Last Exceptions
20533: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
20534: BOOTSCRIPT=Y //enabling load a boot script
20535: MEMORYREPORT=Y //shows memory report on closing maXbox
20536: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
20537: NAVIGATOR=N //shows function list at the right side of editor
20538: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
20539: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
20540: [WEB]
20541: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
20542: IPHOST=192.168.1.53
20543: ROOTCERT=filepathY
20544: SCERT=filepathY
20545: RSAKEY=filepathY
20546: VERSIONCHECK=Y
20547: APP=C:\WINDOWS\System32\calc.exe //set path to an external app
20548:
20549:
20550: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
20551: Also possible to set report memory in script to override ini setting
20552: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
20553:
20554: After Change the ini file you can reload the file with ./Help/Config Update
20555:
20556: //-----
20557: //*****mX4 maildef.ini ini-file Configuration*****
20558: //-----
20559: //*** Definitions for maXMail ***
20560: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
20561: [MAXMAIL]
20562: HOST=getmail.softwareschule.ch
20563: USER=mailusername
20564: PASS=password
20565: PORT=110
20566: SSL=Y
20567: BODY=Y
20568: LAST=5
20569:
20570: ADO Connection String:
20571: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
20572: \452_dbtreeview2access.txt
20573: program TestDbTreeViewMainForm2_ACCESS;
20574:   ConnectionString:='Provider=Microsoft.Jet.OLEDB.4.0;Data Source='
20575:           +Exepath+'\examples\detail.mdb;Persist Security Info=False';
20576:
20577: OpenSSL Lib: unit ssl_openssl_lib;
20578: {$IFDEF CIL}
20579: const
20580: {$IFDEF LINUX}
20581: DLLSSLName = 'libssl.so';
20582: DLLUtilName = 'libcrypto.so';
20583: {$ELSE}
20584: DLLSSLName = 'ssleay32.dll';
20585: DLLUtilName = 'libeay32.dll';
20586: {$ENDIF}
20587: {$ELSE}
20588: var
20589: {$IFNDEF MSWINDOWS}
20590: {$IFDEF DARWIN}
20591: DLLSSLName: string = 'libssl.dylib';
20592: DLLUtilName: string = 'libcrypto.dylib';
20593: {$ELSE}
20594: DLLSSLName: string = 'libssl.so';
20595: DLLUtilName: string = 'libcrypto.so';
20596: {$ENDIF}

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20597: { $ELSE }
20598: DLLSSLName: string = 'ssleay32.dll';
20599: DLLSSLName2: string = 'libssl32.dll';
20600: DLLUtilName: string = 'libleay32.dll';
20601: {$ENDIF}
20602: {$ENDIF}
20603:
20604:
20605: //-----
20606: //*****mX4 Macro Tags *****
20607: //-----
20608:
20609: asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
20610:
20611: //Tag Macros
20612:
20613: asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
20614:
20615: //Tag Macros
20616: 10188: SearchAndCopy(memo1.lines, '#name', getUsernameWin, 11);
20617: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
20618: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
20619: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
20620: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
20621: 10199: SearchAndCopy(memo1.lines, '#fils', fname + '\'+SHA1(Act_Filename), 11);
20622: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
20623: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
20624: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
20625: [getUserNameWin, getComputernameWin, datetimetoStr(now),
20626: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s: %s %s',
20627: 10197: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename], 11));
20628: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename], 11);
20629: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
20630: [perftime, numprocesssthreads, getAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
20631: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
20632: [getDNS, GetLocalIPs, getAddress(getComputerNameWin)]), 10);
20633:
20634: //#tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
20635:
20636: //Replace Macros
20637: SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
20638: SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
20639: SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
20640: SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPATH, 9);
20641: SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
20642: SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
20643:
20644: SearchAndCopy(memo1.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
20645: [perftime, numprocesssthreads, getAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
20646: //#tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
20647: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt
20648:
20649: //-----
20650: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
20651: //-----
20652:
20653: while I < sl.Count do begin
20654: // if MatchesMask(sl[I], '*/? TODO ([a-z0-9_]*#[1-9]#)*:*') then
20655: if MatchesMask(sl[I], '*/? TODO (?*#?#)*:*') then
20656: BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
20657: else if MatchesMask(sl[I], '*/? DONE (?*#?#)*:*') then
20658: BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
20659: else if MatchesMask(sl[I], '*/? TODO (#?#)*:*') then
20660: BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
20661: else if MatchesMask(sl[I], '*/? DONE (#?#)*:*') then
20662: BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
20663: else if MatchesMask(sl[I], '*/*?TODO*:*)' then
20664: BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
20665: else if MatchesMask(sl[I], '*/*?*DONE*:*)' then
20666: BreakupToDo(Filename, sl, I, 'DONE', False, False) // custom DONE
20667: Inc(I);
20668: end;
20669:
20670: //-----
20671: //*****mX4 Public Tools API *****
20672: //-----
20673: file : unit uPSI_fMain.pas; {$SOTAP} Open Tools API Catalog
20674: // Those functions concern the editor and preprocessor, all of the IDE
20675: Example: Call it with maxform1.InfolClick(self)
20676: Note: Call all Methods with maxForm1., e.g.:
20677: maxForm1.ShellStyle1Click(self);
20678:
20679: procedure SIRegister_fMain(CL: TPSPascalCompiler);
20680: begin
20681: Const ('BYTECODE','String bytecode.txt'
20682: Const ('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT')
20683: Const ('PSMODEL','String PS Modelfiles (*.uc)|*.UC
20684: Const ('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS

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20685: Const('PSINC','String PS Includes (*.inc)|*.INC
20686: Const('DEFFILENAME','String 'firstdemo.txt
20687: Const('DEFINIFILE','String 'maxboxdef.ini
20688: Const('EXCEPTLOGFILE','String 'maxboxerrorlog.txt
20689: Const('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt
20690: Const('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf
20691: Const('ALLOBJECTSLIST','String 'docs\VCL.pdf
20692: Const('ALLRESOURCELIST','String 'docs\upsi_allresourcelist.txt
20693: Const('ALLUNITLIST','String 'docs\maxbox3_9.xml');
20694: Const('INCLUDEBOX','String 'pas_includebox.inc
20695: Const('BOOTSCRIPT','String 'maxbootscript.txt
20696: Const('MBVERSION','String '3.9.9.120
20697: Const('VERSION','String '3.9.9.120
20698: Const('MBVER','String '399
20699: Const('MBVERI','Integer'(399);
20700: Const('MBVERALL','Integer'(399120);
20701: Const('EXENAME','String 'maxbox3.exe
20702: Const('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
20703: Const('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
20704: Const('MXVERSIONFILE2','String 'http://www.softwareschule.ch/maxvfile2.txt
20705: Const('MXINTERNETCHECK','String 'www.ask.com
20706: Const('MXMAIL','String 'max@kleiner.com
20707: Const('TAB','Char #$09);
20708: Const('CODECOMPLETION','String 'bds_delphi.dci
20709: SIRegister_TMaxForm1(CL);
20710: end;
20711:
20712: with FindClass('TForm'),'TMaxForm1') do begin
20713:   memo2', 'TMemo', iptrw);
20714:   memo1', 'TSynMemo', iptrw);
20715:   CB1SCList', 'TComboBox', iptrw);
20716:   mxNavigator', 'TComboBox', iptrw);
20717:   IPHost', 'string', iptrw);
20718:   IPPort', 'integer', iptrw);
20719:   COMPort', 'integer', iptrw); //3.9.6.4
20720:   Splitter1', 'TSplitter', iptrw);
20721:   PS3Script', 'TPSScript', iptrw);
20722:   PS3DllPlugin', 'TPSDllPlugin', iptrw);
20723:   MainMenuItem1', 'TMainMenu', iptrw);
20724:   Program1', 'TMenuItem', iptrw);
20725:   Compile1', 'TMenuItem', iptrw);
20726:   Files1', 'TMenuItem', iptrw);
20727:   open1', 'TMenuItem', iptrw);
20728:   Save2', 'TMenuItem', iptrw);
20729:   Options1', 'TMenuItem', iptrw);
20730:   Savebefore1', 'TMenuItem', iptrw);
20731:   Largefont1', 'TMenuItem', iptrw);
20732:   sBytecode1', 'TMenuItem', iptrw);
20733:   Saveas3', 'TMenuItem', iptrw);
20734:   Clear1', 'TMenuItem', iptrw);
20735:   Slinenumbers1', 'TMenuItem', iptrw);
20736:   About1', 'TMenuItem', iptrw);
20737:   Search1', 'TMenuItem', iptrw);
20738:   SynPasSyn1', 'TSynPasSyn', iptrw);
20739:   memo1', 'TSynMemo', iptrw);
20740:   SynEditSearch1', 'TSynEditSearch', iptrw);
20741:   WordWrap1', 'TMenuItem', iptrw);
20742:   XPMManifest1', 'TXPManifest', iptrw);
20743:   SearchNext1', 'TMenuItem', iptrw);
20744:   Replace1', 'TMenuItem', iptrw);
20745:   PSImport_Controls1', 'TPSImport_Controls', iptrw);
20746:   PSImport_Classes1', 'TPSImport_Classes', iptrw);
20747:   ShowInclude1', 'TMenuItem', iptrw);
20748:   SynEditPrint1', 'TSynEditPrint', iptrw);
20749:   Printout1', 'TMenuItem', iptrw);
20750:   mnPrintColors1', 'TMenuItem', iptrw);
20751:   dlgFilePrint', 'TPrintDialog', iptrw);
20752:   dlgPrintFont1', 'TFontDialog', iptrw);
20753:   mnuPrintFont1', 'TMenuItem', iptrw);
20754:   Includel', 'TMenuItem', iptrw);
20755:   CodeCompletionList1', 'TMenuItem', iptrw);
20756:   IncludeList1', 'TMenuItem', iptrw);
20757:   ImageList1', 'TImageList', iptrw);
20758:   ImageList2', 'TImageList', iptrw);
20759:   CoolBar1', 'TCoolBar', iptrw);
20760:   ToolBar1', 'TToolBar', iptrw);
20761:   btnLoad', 'TToolButton', iptrw);
20762:   ToolButton2', 'TToolButton', iptrw);
20763:   btnFind', 'TToolButton', iptrw);
20764:   btnCompile', 'TToolButton', iptrw);
20765:   btnTrans', 'TToolButton', iptrw);
20766:   btnUseCase', 'TToolButton', iptrw); //3.8
20767:   toolbtnTutorial', 'TToolButton', iptrw);
20768:   btn6res', 'TToolButton', iptrw);
20769:   ToolButton5', 'TToolButton', iptrw);
20770:   ToolButton1', 'TToolButton', iptrw);
20771:   ToolButton3', 'TToolButton', iptrw);
20772:   statusBar1', 'TStatusBar', iptrw);
20773:   SaveOutput1', 'TMenuItem', iptrw);

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20774: ExportClipboard1', 'TMenuItem', iptrw);
20775: Close1', 'TMenuItem', iptrw);
20776: Manuall', 'TMenuItem', iptrw);
20777: About2', 'TMenuItem', iptrw);
20778: loadLastfile1', 'TMenuItem', iptrw);
20779: imgLogo', 'TImage', iptrw);
20780: cedebbug', 'TPSScriptDebugger', iptrw);
20781: debugPopupMenu1', 'TPopupMenu', iptrw);
20782: BreakPointMenu', 'TMenuItem', iptrw);
20783: Decompile1', 'TMenuItem', iptrw);
20784: StepInto1', 'TMenuItem', iptrw);
20785: StepOut1', 'TMenuItem', iptrw);
20786: Reset1', 'TMenuItem', iptrw);
20787: DebugRun1', 'TMenuItem', iptrw);
20788: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
20789: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
20790: PSImport_Forms1', 'TPSImport_Forms', iptrw);
20791: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
20792: tutorial4', 'TMenuItem', iptrw);
20793: ExporttoClipboard1', 'TMenuItem', iptrw);
20794: ImportfromClipboard1', 'TMenuItem', iptrw);
20795: N4', 'TMenuItem', iptrw);
20796: N5', 'TMenuItem', iptrw);
20797: N6', 'TMenuItem', iptrw);
20798: ImportfromClipboard2', 'TMenuItem', iptrw);
20799: tutorial1', 'TMenuItem', iptrw);
20800: N7', 'TMenuItem', iptrw);
20801: ShowSpecChars1', 'TMenuItem', iptrw);
20802: OpenDirectory1', 'TMenuItem', iptrw);
20803: procMess', 'TMenuItem', iptrw);
20804: tbtnUseCase', 'TToolButton', iptrw);
20805: ToolButton7', 'TToolButton', iptrw);
20806: EditFont1', 'TMenuItem', iptrw);
20807: UseCase1', 'TMenuItem', iptrw);
20808: tutorial21', 'TMenuItem', iptrw);
20809: OpenUseCase1', 'TMenuItem', iptrw);
20810: PSImport_DB1', 'TPSImport_DB', iptrw);
20811: tutorial31', 'TMenuItem', iptrw);
20812: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
20813: HTMLEntax1', 'TMenuItem', iptrw);
20814: ShowInterfaces1', 'TMenuItem', iptrw);
20815: Tutorials5', 'TMenuItem', iptrw);
20816: AllFunctionsList1', 'TMenuItem', iptrw);
20817: ShowLastException1', 'TMenuItem', iptrw);
20818: PlayMP31', 'TMenuItem', iptrw);
20819: SynTeXSyn1', 'TSynTeXSyn', iptrw);
20820: texSyntax1', 'TMenuItem', iptrw);
20821: N8', 'TMenuItem', iptrw);
20822: GetEMails1', 'TMenuItem', iptrw);
20823: SynCppSyn1', 'TSynCppSyn', iptrw);
20824: CSyntax1', 'TMenuItem', iptrw);
20825: Tutorial6', 'TMenuItem', iptrw);
20826: New1', 'TMenuItem', iptrw);
20827: AllObjectsList1', 'TMenuItem', iptrw);
20828: LoadBytecode1', 'TMenuItem', iptrw);
20829: CipherFile1', 'TMenuItem', iptrw);
20830: N9', 'TMenuItem', iptrw);
20831: N10', 'TMenuItem', iptrw);
20832: Tutorial11', 'TMenuItem', iptrw);
20833: Tutorial71', 'TMenuItem', iptrw);
20834: UpdateService1', 'TMenuItem', iptrw);
20835: PascalSchool1', 'TMenuItem', iptrw);
20836: Tutorial81', 'TMenuItem', iptrw);
20837: DelphiSite1', 'TMenuItem', iptrw);
20838: Output1', 'TMenuItem', iptrw);
20839: TerminalStyle1', 'TMenuItem', iptrw);
20840: ReadOnly1', 'TMenuItem', iptrw);
20841: Shellstyle1', 'TMenuItem', iptrw);
20842: BigScreen1', 'TMenuItem', iptrw);
20843: Tutorial91', 'TMenuItem', iptrw);
20844: SaveOutput2', 'TMenuItem', iptrw);
20845: N11', 'TMenuItem', iptrw);
20846: SaveScreenshot', 'TMenuItem', iptrw);
20847: Tutorial101', 'TMenuItem', iptrw);
20848: SQLSyntax1', 'TMenuItem', iptrw);
20849: SynSQLSyn1', 'TSynSQLSyn', iptrw);
20850: Console1', 'TMenuItem', iptrw);
20851: SynXMLSyn1', 'TSynXMLSyn', iptrw);
20852: XMLSyntax1', 'TMenuItem', iptrw);
20853: ComponentCount1', 'TMenuItem', iptrw);
20854: NewInstance1', 'TMenuItem', iptrw);
20855: toolbtnTutorial', 'TToolButton', iptrw);
20856: Memory1', 'TMenuItem', iptrw);
20857: SynJavaSyn1', 'TSynJavaSyn', iptrw);
20858: JavaSyntax1', 'TMenuItem', iptrw);
20859: SyntaxCheck1', 'TMenuItem', iptrw);
20860: Tutorial10Statistics1', 'TMenuItem', iptrw);
20861: ScriptExplorer1', 'TMenuItem', iptrw);
20862: FormOutput1', 'TMenuItem', iptrw);
```

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20863: ArduinoDump1', 'TMenuItem', iptrw);
20864: AndroidDump1', 'TMenuItem', iptrw);
20865: GotoEnd1', 'TMenuItem', iptrw);
20866: AllResourceList1', 'TMenuItem', iptrw);
20867: ToolButton4', 'TToolButton', iptrw);
20868: tbtn6res', 'TToolButton', iptrw);
20869: Tutorial11Forms1', 'TMenuItem', iptrw);
20870: Tutorial12SQL1', 'TMenuItem', iptrw);
20871: ResourceExplore1', 'TMenuItem', iptrw);
20872: Info1', 'TMenuItem', iptrw);
20873: N12', 'TMenuItem', iptrw);
20874: CryptoBox1', 'TMenuItem', iptrw);
20875: Tutorial13Ciphering1', 'TMenuItem', iptrw);
20876: CipherFile2', 'TMenuItem', iptrw);
20877: N13', 'TMenuItem', iptrw);
20878: ModulesCount1', 'TMenuItem', iptrw);
20879: AddOns2', 'TMenuItem', iptrw);
20880: N4GewinntGame1', 'TMenuItem', iptrw);
20881: DocuforAddOns1', 'TMenuItem', iptrw);
20882: Tutorial14Async1', 'TMenuItem', iptrw);
20883: Lessons15Review1', 'TMenuItem', iptrw);
20884: SynPHPSyn1', 'TSynPHPSyn', iptrw);
20885: PHPSyntax1', 'TMenuItem', iptrw);
20886: Breakpoint1', 'TMenuItem', iptrw);
20887: SerialRS2321', 'TMenuItem', iptrw);
20888: N14', 'TMenuItem', iptrw);
20889: SynCSSyn1', 'TSynCSSyn', iptrw);
20890: CSyntax2', 'TMenuItem', iptrw);
20891: Calculator1', 'TMenuItem', iptrw);
20892: tbtnSerial', 'TToolButton', iptrw);
20893: ToolButton8', 'TToolButton', iptrw);
20894: Tutorial151', 'TMenuItem', iptrw);
20895: N15', 'TMenuItem', iptrw);
20896: N16', 'TMenuItem', iptrw);
20897: ControlBar1', 'TControlBar', iptrw);
20898: ToolBar2', 'TToolBar', iptrw);
20899: BtnOpen', 'TToolButton', iptrw);
20900: BtnSave', 'TToolButton', iptrw);
20901: BtnPrint', 'TToolButton', iptrw);
20902: BtnColors', 'TToolButton', iptrw);
20903: btnClassReport', 'TToolButton', iptrw);
20904: BtnRotateRight', 'TToolButton', iptrw);
20905: BtnFullScreen', 'TToolButton', iptrw);
20906: BtnFitToWindowSize', 'TToolButton', iptrw);
20907: BtnZoomMinus', 'TToolButton', iptrw);
20908: BtnZoomPlus', 'TToolButton', iptrw);
20909: Panel1', 'TPanel', iptrw);
20910: LabelBrettgroesse', 'TLabel', iptrw);
20911: CB1SCList', 'TComboBox', iptrw);
20912: ImageListNormal', 'TImageList', iptrw);
20913: spbtnexploy', 'TSpeedButton', iptrw);
20914: spbtnexample', 'TSpeedButton', iptrw);
20915: spbsaveas', 'TSpeedButton', iptrw);
20916: imglogobox', 'TImage', iptrw);
20917: EnlargeFont1', 'TMenuItem', iptrw);
20918: EnlargeFont2', 'TMenuItem', iptrw);
20919: ShrinkFont1', 'TMenuItem', iptrw);
20920: ThreadDemo1', 'TMenuItem', iptrw);
20921: HEXEditor1', 'TMenuItem', iptrw);
20922: HEXView1', 'TMenuItem', iptrw);
20923: HEXInspect1', 'TMenuItem', iptrw);
20924: SynExporterHTML1', 'TSynExporterHTML', iptrw);
20925: ExporttoHTML1', 'TMenuItem', iptrw);
20926: ClassCount1', 'TMenuItem', iptrw);
20927: HTMLOutput1', 'TMenuItem', iptrw);
20928: HEXEditor2', 'TMenuItem', iptrw);
20929: Minesweeper1', 'TMenuItem', iptrw);
20930: N17', 'TMenuItem', iptrw);
20931: PicturePuzzle1', 'TMenuItem', iptrw);
20932: sbvc1help', 'TSpeedButton', iptrw);
20933: DependencyWalker1', 'TMenuItem', iptrw);
20934: WebScanner1', 'TMenuItem', iptrw);
20935: View1', 'TMenuItem', iptrw);
20936: mnToolbar1', 'TMenuItem', iptrw);
20937: mnStatusbar2', 'TMenuItem', iptrw);
20938: mnConsole2', 'TMenuItem', iptrw);
20939: mnCoolbar2', 'TMenuItem', iptrw);
20940: mnSplitter2', 'TMenuItem', iptrw);
20941: WebServer1', 'TMenuItem', iptrw);
20942: Tutorial17Server1', 'TMenuItem', iptrw);
20943: Tutorial18Arduinol1', 'TMenuItem', iptrw);
20944: SynPerlSyn1', 'TSynPerlSyn', iptrw);
20945: PerlSyntax1', 'TMenuItem', iptrw);
20946: SynPythonSyn1', 'TSynPythonSyn', iptrw);
20947: PythonSyntax1', 'TMenuItem', iptrw);
20948: DMathLibrary1', 'TMenuItem', iptrw);
20949: IntfNavigator1', 'TMenuItem', iptrw);
20950: EnlargeFontConsole1', 'TMenuItem', iptrw);
20951: ShrinkFontConsole1', 'TMenuItem', iptrw);
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20952: SetInterfaceList1', 'TMenuItem', iptrw);
20953: popintfList', 'TPopupMenu', iptrw);
20954: intfAdd1', 'TMenuItem', iptrw);
20955: intfDelete1', 'TMenuItem', iptrw);
20956: intfRefactor1', 'TMenuItem', iptrw);
20957: Defactor1', 'TMenuItem', iptrw);
20958: Tutorial19COMArduinol', 'TMenuItem', iptrw);
20959: Tutorial20Regex', 'TMenuItem', iptrw);
20960: N18', 'TMenuItem', iptrw);
20961: ManualE1', 'TMenuItem', iptrw);
20962: FullTextFinder1', 'TMenuItem', iptrw);
20963: Move1', 'TMenuItem', iptrw);
20964: FractalDemo1', 'TMenuItem', iptrw);
20965: Tutorial21Android1', 'TMenuItem', iptrw);
20966: Tutorial0Function1', 'TMenuItem', iptrw);
20967: SimuLogBox1', 'TMenuItem', iptrw);
20968: OpenExamples1', 'TMenuItem', iptrw);
20969: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
20970: JavaScriptSyntax1', 'TMenuItem', iptrw);
20971: Halt1', 'TMenuItem', iptrw);
20972: CodeSearch1', 'TMenuItem', iptrw);
20973: SynRubySyn1', 'TSynRubySyn', iptrw);
20974: RubySyntax1', 'TMenuItem', iptrw);
20975: Undol', 'TMenuItem', iptrw);
20976: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
20977: LinuxShellScript1', 'TMenuItem', iptrw);
20978: Renamel', 'TMenuItem', iptrw);
20979: spdcodesearch', 'TSpeedButton', iptrw);
20980: Preview1', 'TMenuItem', iptrw);
20981: Tutorial22Services1', 'TMenuItem', iptrw);
20982: Tutorial23Realtime1', 'TMenuItem', iptrw);
20983: Configuration1', 'TMenuItem', iptrw);
20984: MP3Player1', 'TMenuItem', iptrw);
20985: DLLSpy1', 'TMenuItem', iptrw);
20986: SynURIOpener1', 'TSynURIOpener', iptrw);
20987: SynURISyn1', 'TSynURISyn', iptrw);
20988: URILinksClicks1', 'TMenuItem', iptrw);
20989: EditReplace1', 'TMenuItem', iptrw);
20990: Gotoline1', 'TMenuItem', iptrw);
20991: ActiveLineColor1', 'TMenuItem', iptrw);
20992: ConfigFile1', 'TMenuItem', iptrw);
20993: Sort1Intflist', 'TMenuItem', iptrw);
20994: Redol', 'TMenuItem', iptrw);
20995: Tutorial24CleanCode1', 'TMenuItem', iptrw);
20996: Tutorial25Configuration1', 'TMenuItem', iptrw);
20997: IndentSelection1', 'TMenuItem', iptrw);
20998: UnindentSection1', 'TMenuItem', iptrw);
20999: SkyStyle1', 'TMenuItem', iptrw);
21000: N19', 'TMenuItem', iptrw);
21001: CountWords1', 'TMenuItem', iptrw);
21002: imbookmarkimages', 'TImageList', iptrw);
21003: Bookmark11', 'TMenuItem', iptrw);
21004: N20', 'TMenuItem', iptrw);
21005: Bookmark21', 'TMenuItem', iptrw);
21006: Bookmark31', 'TMenuItem', iptrw);
21007: Bookmark41', 'TMenuItem', iptrw);
21008: SynMultiSyn1', 'TSynMultiSyn', iptrw);
21009:
21010: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
21011: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
21012: Procedure PSScriptCompile( Sender : TPSScript)
21013: Procedure Compile1Click( Sender : TObject)
21014: Procedure PSExecute( Sender : TPSScript)
21015: Procedure open1Click( Sender : TObject)
21016: Procedure Save2Click( Sender : TObject)
21017: Procedure Savebefore1Click( Sender : TObject)
21018: Procedure Largefont1Click( Sender : TObject)
21019: Procedure FormActivate( Sender : TObject)
21020: Procedure SBytecode1Click( Sender : TObject)
21021: Procedure FormKeyPress( Sender : TObject; var Key : Char)
21022: Procedure Saveas3Click( Sender : TObject)
21023: Procedure Clear1Click( Sender : TObject)
21024: Procedure Slinenumbers1Click( Sender : TObject)
21025: Procedure About1Click( Sender : TObject)
21026: Procedure Search1Click( Sender : TObject)
21027: Procedure FormCreate( Sender : TObject)
21028: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
21029: var Action : TSynReplaceAction)
21030: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
21031: Procedure WordWrap1Click( Sender : TObject)
21032: Procedure SearchNext1Click( Sender : TObject)
21033: Procedure Replace1Click( Sender : TObject)
21034: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
21035: Procedure ShowInclude1Click( Sender : TObject)
21036: Procedure Printout1Click( Sender : TObject)
21037: Procedure mnuPrintFont1Click( Sender : TObject)
21038: Procedure IncludelClick( Sender : TObject)
21039: Procedure FormDestroy( Sender : TObject)
21040: Procedure FormClose( Sender : TObject; var Action : TCloseAction)

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21041: Procedure UpdateView1Click( Sender : TObject)
21042: Procedure CodeCompletionList1Click( Sender : TObject)
21043: Procedure SaveOutput1Click( Sender : TObject)
21044: Procedure ExportClipboard1Click( Sender : TObject)
21045: Procedure Close1Click( Sender : TObject)
21046: Procedure Manual1Click( Sender : TObject)
21047: Procedure LoadLastFile1Click( Sender : TObject)
21048: Procedure Memo1Change( Sender : TObject)
21049: Procedure Decompile1Click( Sender : TObject)
21050: Procedure StepInto1Click( Sender : TObject)
21051: Procedure StepOut1Click( Sender : TObject)
21052: Procedure Reset1Click( Sender : TObject)
21053: Procedure cedebugAfterExecute( Sender : TPSScript)
21054: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
21055: Procedure cedebugCompile( Sender : TPSScript)
21056: Procedure cedebugExecute( Sender : TPSScript)
21057: Procedure cedebugIdle( Sender : TObject)
21058: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
21059: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
21060: Procedure BreakPointMenuClick( Sender : TObject)
21061: Procedure DebugRun1Click( Sender : TObject)
21062: Procedure tutorial4Click( Sender : TObject)
21063: Procedure ImportfromClipboard1Click( Sender : TObject)
21064: Procedure ImportfromClipboard2Click( Sender : TObject)
21065: Procedure tutorial1Click( Sender : TObject)
21066: Procedure ShowSpecChars1Click( Sender : TObject)
21067: Procedure StatusBar1DblClick( Sender : TObject)
21068: Procedure PSScriptLine( Sender : TObject)
21069: Procedure OpenDirectory1Click( Sender : TObject)
21070: Procedure procMessClick( Sender : TObject)
21071: Procedure tbtnUseCaseClick( Sender : TObject)
21072: Procedure EditFont1Click( Sender : TObject)
21073: Procedure tutorial21Click( Sender : TObject)
21074: Procedure tutorial31Click( Sender : TObject)
21075: Procedure HTMLSyntax1Click( Sender : TObject)
21076: Procedure ShowInterfaces1Click( Sender : TObject)
21077: Procedure Tutorial5Click( Sender : TObject)
21078: Procedure ShowLastException1Click( Sender : TObject)
21079: Procedure PlayMP31Click( Sender : TObject)
21080: Procedure AllFunctionsList1Click( Sender : TObject)
21081: Procedure texSyntax1Click( Sender : TObject)
21082: Procedure GetEMails1Click( Sender : TObject)
21083: procedure DelphiSite1Click(Sender: TObject);
21084: procedure TerminalStyle1Click(Sender: TObject);
21085: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
21086: procedure ShellStyle1Click(Sender: TObject);
21087: procedure Console1Click(Sender: TObject); //3.2
21088: procedure BigScreen1Click(Sender: TObject);
21089: procedure Tutorial91Click(Sender: TObject);
21090: procedure SaveScreenshotClick(Sender: TObject);
21091: procedure Tutorial101Click(Sender: TObject);
21092: procedure SQLSyntax1Click(Sender: TObject);
21093: procedure XMLSyntax1Click(Sender: TObject);
21094: procedure ComponentCount1Click(Sender: TObject);
21095: procedure NewInstance1Click(Sender: TObject);
21096: procedure CSyntax1Click(Sender: TObject);
21097: procedure Tutorial6Click(Sender: TObject);
21098: procedure New1Click(Sender: TObject);
21099: procedure AllObjectsList1Click(Sender: TObject);
21100: procedure LoadBytocode1Click(Sender: TObject);
21101: procedure CipherFile1Click(Sender: TObject); //V3.5
21102: procedure NewInstance1Click(Sender: TObject);
21103: procedure toolbtnTutorialClick(Sender: TObject);
21104: procedure Memory1Click(Sender: TObject);
21105: procedure JavaSyntax1Click(Sender: TObject);
21106: procedure SyntaxCheck1Click(Sender: TObject);
21107: procedure ScriptExplorer1Click(Sender: TObject);
21108: procedure FormOutput1Click(Sender: TObject); //V3.6
21109: procedure GotoEnd1Click(Sender: TObject);
21110: procedure AllResourceList1Click(Sender: TObject);
21111: procedure tbtn6resClick(Sender: TObject); //V3.7
21112: procedure Info1Click(Sender: TObject);
21113: procedure Tutorial10Statistics1Click(Sender: TObject);
21114: procedure Tutorial11Forms1Click(Sender: TObject);
21115: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
21116: procedure ResourceExplore1Click(Sender: TObject);
21117: procedure Info1Click(Sender: TObject);
21118: procedure CryptoBox1Click(Sender: TObject);
21119: procedure ModulesCount1Click(Sender: TObject);
21120: procedure N4GewinntGame1Click(Sender: TObject);
21121: procedure PHPSyntax1Click(Sender: TObject);
21122: procedure SerialRS2321Click(Sender: TObject);
21123: procedure CSyntax2Click(Sender: TObject);
21124: procedure Calculator1Click(Sender: TObject);
21125: procedure Tutorial13Ciphering1Click(Sender: TObject);
21126: procedure Tutorial14Async1Click(Sender: TObject);
21127: procedure PHPSyntax1Click(Sender: TObject);
21128: procedure BtnZoomPlusClick(Sender: TObject);
21129: procedure BtnZoomMinusClick(Sender: TObject);

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21130: procedure btnClassReportClick(Sender: TObject);
21131: procedure ThreadDemolClick(Sender: TObject);
21132: procedure HEXView1Click(Sender: TObject);
21133: procedure ExporttoHTML1Click(Sender: TObject);
21134: procedure Minesweeper1Click(Sender: TObject);
21135: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
21136: procedure sbvclhelpClick(Sender: TObject);
21137: procedure DependencyWalker1Click(Sender: TObject);
21138: procedure CBISCLListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
21139: procedure WebScanner1Click(Sender: TObject);
21140: procedure mnToolbar1Click(Sender: TObject);
21141: procedure mnStatusbar2Click(Sender: TObject);
21142: procedure mnConsole2Click(Sender: TObject);
21143: procedure mnCoolbar2Click(Sender: TObject);
21144: procedure mnSplitter2Click(Sender: TObject);
21145: procedure WebServer1Click(Sender: TObject);
21146: procedure PerlSyntax1Click(Sender: TObject);
21147: procedure PythonSyntax1Click(Sender: TObject);
21148: procedure DMathLibrary1Click(Sender: TObject);
21149: procedure IntfNavigator1Click(Sender: TObject);
21150: procedure FullTextFinder1Click(Sender: TObject);
21151: function AppName: string;
21152: function ScriptName: string;
21153: function LastName: string;
21154: procedure FractalDemolClick(Sender: TObject);
21155: procedure SimuLogBox1Click(Sender: TObject);
21156: procedure OpenExamples1Click(Sender: TObject);
21157: procedure Halt1Click(Sender: TObject);
21158: procedure Stop;
21159: procedure CodeSearch1Click(Sender: TObject);
21160: procedure RubySyntax1Click(Sender: TObject);
21161: procedure Undo1Click(Sender: TObject);
21162: procedure LinuxShellsScript1Click(Sender: TObject);
21163: procedure WebScannerDirect(urls: string);
21164: procedure WebScanner(urls: string);
21165: procedure LoadInterfaceList2;
21166: procedure DLLSpy1Click(Sender: TObject);
21167: procedure Memo1Db1Click(Sender: TObject);
21168: procedure URILinksClicks1Click(Sender: TObject);
21169: procedure Gotoline1Click(Sender: TObject);
21170: procedure ConfigFile1Click(Sender: TObject);
21171: Procedure Sort1IntflistClick( Sender : TObject )
21172: Procedure Redo1Click( Sender : TObject )
21173: Procedure Tutorial24CleanCode1Click( Sender : TObject )
21174: Procedure IndentSelection1Click( Sender : TObject )
21175: Procedure UnindentSection1Click( Sender : TObject )
21176: Procedure SkyStyle1Click( Sender : TObject )
21177: Procedure CountWords1Click( Sender : TObject )
21178: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark );
21179: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
21180: Procedure Bookmark11Click( Sender : TObject )
21181: Procedure Bookmark21Click( Sender : TObject )
21182: Procedure Bookmark31Click( Sender : TObject );
21183: Procedure Bookmark41Click( Sender : TObject );
21184: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
21185: 'STATMemoryReport', 'boolean', iptrw);
21186: 'IPPort', 'integer', iptrw);
21187: 'COMPPort', 'integer', iptrw);
21188: 'lbintlist', 'TListBox', iptrw);
21189: Function GetStatChange : boolean;
21190: Procedure SetStatChange( vstat : boolean );
21191: Function GetActFileName : string;
21192: Procedure SetActFileName( vname : string );
21193: Function GetLastFileName : string;
21194: Procedure SetLastFileName( vname : string );
21195: Procedure WebScannerDirect( urls : string );
21196: Procedure LoadInterfaceList2;
21197: Function GetStatExecuteShell : boolean;
21198: Procedure DoEditorExecuteCommand( EditorCommand : word );
21199: function GetActiveLineColor: TColor;
21200: procedure SetActivelineColor(acolor: TColor);
21201: procedure ScriptListbox1Click(Sender: TObject);
21202: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
21203: procedure EnlargeGutter1Click(Sender: TObject);
21204: procedure Tetris1Click(Sender: TObject);
21205: procedure ToDoList1Click(Sender: TObject);
21206: procedure ProcessList1Click(Sender: TObject);
21207: procedure MetricReport1Click(Sender: TObject);
21208: procedure ProcessList1Click(Sender: TObject);
21209: procedure TCP.Sockets1Click(Sender: TObject);
21210: procedure ConfigUpdate1Click(Sender: TObject);
21211: procedure ADOWorkbench1Click(Sender: TObject);
21212: procedure SocketServer1Click(Sender: TObject);
21213: procedure FormDemolClick(Sender: TObject);
21214: procedure Richedit1Click(Sender: TObject);
21215: procedure SimpleBrowser1Click(Sender: TObject);
21216: procedure DOSShell1Click(Sender: TObject);
21217: procedure SynExport1Click(Sender: TObject);
21218: procedure ExporttoRTF1Click(Sender: TObject);

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21219: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
21220: procedure SOAPTester1Click(Sender: TObject);
21221: procedure Sniffer1Click(Sender: TObject);
21222: procedure AutoDetectSyntax1Click(Sender: TObject);
21223: procedure FPlot1Click(Sender: TObject);
21224: procedure PasStyle1Click(Sender: TObject);
21225: procedure Tutorial183RGBLED1Click(Sender: TObject);
21226: procedure ReversilClick(Sender: TObject);
21227: procedure Manualmaxbox1Click(Sender: TObject);
21228: procedure BlaisePascalMagazine1Click(Sender: TObject);
21229: procedure AddToDo1Click(Sender: TObject);
21230: procedure CreateGUID1Click(Sender: TObject);
21231: procedure Tutorial27XML1Click(Sender: TObject);
21232: procedure CreateDLLStub1Click(Sender: TObject);
21233: procedure Tutorial28DLL1Click(Sender: TObject);');
21234: procedure ResetKeyPressed(');
21235: procedure KeyPressedFalse;
21236: procedure FileChanges1Click(Sender: TObject);');
21237: procedure OpenGLTry1Click(Sender: TObject);');
21238: procedure AllUnitList1Click(Sender: TObject);');
21239: procedure Tutorial29UMLClick(Sender: TObject);
21240: procedure CreateHeader1Click(Sender: TObject);
21241: procedure Oscilloscope1Click(Sender: TObject);');
21242: procedure Tutorial30WOT1Click(Sender: TObject);');
21243: procedure GetWebScript1Click(Sender: TObject);');
21244: procedure Checkers1Click(Sender: TObject);');
21245: procedure TaskMgr1Click(Sender: TObject);');
21246: procedure WebCam1Click(Sender: TObject);');
21247: procedure Tutorial31Closure1Click(Sender: TObject);');
21248: procedure GEOMapView1Click(Sender: TObject);');
21249: procedure Run1Click(Sender: TObject);
21250: MaxForm1.GPSSatView1Click, 'GPSSatView1Click');
21251: MaxForm1.N3DLabel1Click, 'N3DLabel1Click');
21252: procedure ExternalApp1Click(Sender: TObject);');
21253:
21254:
21255: //-----
21256: //*****mX4 Editor SynEdit Tools API *****
21257: //-----
21258: procedure SIRegister_TCustomSynEdit(CL: TPSPPascalCompiler);
21259: begin
21260:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
21261:   with FindClass('TCustomControl','TCustomSynEdit') do begin
21262:     Constructor Create(AOwner : TComponent)
21263:     SelStart', 'Integer', iptrw);
21264:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
21265:     Procedure UpdateCaret
21266:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
21267:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
21268:     Procedure BeginUndoBlock
21269:     Procedure BeginUpdate
21270:     Function CaretInView : Boolean
21271:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
21272:     Procedure Clear
21273:     Procedure ClearAll
21274:     Procedure ClearBookMark( BookMark : Integer )
21275:     Procedure ClearSelection
21276:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
21277:     Procedure ClearUndo
21278:     Procedure CopyToClipboard
21279:     Procedure CutToClipboard
21280:     Procedure DoCopyToClipboard( const SText : string )
21281:     Procedure EndUndoBlock
21282:     Procedure EndUpdate
21283:     Procedure EnsureCursorPosVisible
21284:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
21285:     Procedure FindMatchingBracket
21286:     Function GetMatchingBracket : TBufferCoord
21287:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
21288:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
21289:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
21290:     Function GetHighlighterAttrAtRowCol( const XY : TBufferCoord; var Token : string; var Attr : TSynHighlighterAttributes ) : boolean
21291:     Function GetHighlighterAttrAtRowColEx( const XY : TBufferCoord; var Token : string;
21292:       var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
21293:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
21294:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
21295:     Procedure GotoBookMark( BookMark : Integer )
21296:     Procedure GotolineAndCenter( ALine : Integer )
21297:     Function IdentChars : TSynIdentChars
21298:     Procedure InvalidateGutter
21299:     Procedure InvalidateGutterLine( aLine : integer )
21300:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
21301:     Procedure InvalidateLine( Line : integer )
21302:     Procedure InvalidateLines( FirstLine, LastLine : integer )
21303:     Procedure InvalidateSelection
21304:     Function IsBookmark( BookMark : integer ) : boolean
21305:     Function IsPointInSelection( const Value : TBufferCoord ) : boolean
21306:     Procedure LockUndo
21307:

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21308: Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
21309: Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
21310: Function LineToRow( aLine : integer ) : integer
21311: Function RowToLine( aRow : integer ) : integer
21312: Function NextWordPos : TBufferCoord
21313: Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
21314: Procedure PasteFromClipboard
21315: Function WordStart : TBufferCoord
21316: Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
21317: Function WordEnd : TBufferCoord
21318: Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
21319: Function PrevWordPos : TBufferCoord
21320: Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
21321: Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
21322: Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
21323: Procedure Redo
21324: Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer );
21325: Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
21326: Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
21327: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
21328: Procedure SelectAll
21329: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
21330: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
21331: Procedure SetDefaultKeystrokes
21332: Procedure SetSelWord
21333: Procedure SetWordBlock( Value : TBufferCoord )
21334: Procedure Undo
21335: Procedure UnlockUndo
21336: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
21337: Procedure AddKeyUpHandler( aHandler : TKeyEvent )
21338: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
21339: Procedure AddKeyDownHandler( aHandler : TKeyEvent )
21340: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
21341: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
21342: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
21343: Procedure AddFocusControl( aControl : TWinControl )
21344: Procedure RemoveFocusControl( aControl : TWinControl )
21345: Procedure AddMouseDownHandler( aHandler : TMouseEvent )
21346: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
21347: Procedure AddMouseUpHandler( aHandler : TMouseEvent )
21348: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
21349: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent )
21350: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent )
21351: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
21352: Procedure RemoveLinesPointer
21353: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
21354: Procedure UnHookTextBuffer
21355: BlockBegin', 'TBufferCoord', iptrw);
21356: BlockEnd', 'TBufferCoord', iptrw);
21357: CanPaste', 'Boolean', iptr);
21358: CanRedo', 'boolean', iptr);
21359: CanUndo', 'boolean', iptr);
21360: CaretX', 'Integer', iptrw);
21361: CaretY', 'Integer', iptrw);
21362: CaretXY', 'TBufferCoord', iptrw);
21363: ActiveLineColor', 'TColor', iptrw);
21364: DisplayX', 'Integer', iptr);
21365: DisplayY', 'Integer', iptr);
21366: DisplayXY', 'TDisplayCoord', iptr);
21367: DisplayLineCount', 'integer', iptr);
21368: CharsInWindow', 'Integer', iptr);
21369: CharWidth', 'integer', iptr);
21370: Font', 'TFont', iptrw);
21371: GutterWidth', 'Integer', iptr);
21372: Highlighter', 'TSynCustomHighlighter', iptrw);
21373: LeftChar', 'Integer', iptrw);
21374: LineHeight', 'integer', iptr);
21375: LinesInWindow', 'Integer', iptr);
21376: LineText', 'string', iptrw);
21377: Lines', 'TStrings', iptrw);
21378: Marks', 'TSynEditMarkList', iptr);
21379: MaxScrollWidth', 'integer', iptrw);
21380: Modified', 'Boolean', iptrw);
21381: PaintLock', 'Integer', iptr);
21382: ReadOnly', 'Boolean', iptrw);
21383: SearchEngine', 'TSynEditSearchCustom', iptrw);
21384: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
21385: SelTabBlock', 'Boolean', iptr);
21386: SelTabLine', 'Boolean', iptr);
21387: SelText', 'string', iptrw);
21388: StateFlags', 'TSynStateFlags', iptr);
21389: Text', 'string', iptrw);
21390: TopLine', 'Integer', iptrw);
21391: WordAtCursor', 'string', iptr);
21392: WordAtMouse', 'string', iptr);
21393: UndoList', 'TSynEditUndoList', iptr);
21394: RedoList', 'TSynEditUndoList', iptr);
21395: OnProcessCommand', 'TProcessCommandEvent', iptrw);
21396: BookMarkOptions', 'TSynBookMarkOpt', iptrw);

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21397:   BorderStyle', 'TSynBorderStyle', iptrw);
21398:   ExtraLineSpacing', 'integer', iptrw);
21399:   Gutter', 'TSynGutter', iptrw);
21400:   HideSelection', 'boolean', iptrw);
21401:   InsertCaret', 'TSynEditCaretType', iptrw);
21402:   InsertMode', 'boolean', iptrw);
21403:   IsScrolling', 'Boolean', iptr);
21404:   Keystrokes', 'TSynEditKeyStrokes', iptrw);
21405:   MaxUndo', 'Integer', iptrw);
21406:   Options', 'TSynEditorOptions', iptrw);
21407:   OverwriteCaret', 'TSynEditCaretType', iptrw);
21408:   RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
21409:   ScrollHintColor', 'TColor', iptrw);
21410:   ScrollHintFormat', 'TScrollHintFormat', iptrw);
21411:   ScrollBars', 'TScrollStyle', iptrw);
21412:   SelectedColor', 'TSynSelectedColor', iptrw);
21413:   SelectionMode', 'TSynSelectionMode', iptrw);
21414:   ActiveSelectionMode', 'TSynSelectionMode', iptrw);
21415:   TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
21416:   WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
21417:   WordWrapGlyph', 'TSynGlyph', iptrw);
21418:   OnChange', 'TNNotifyEvent', iptrw);
21419:   OnClearBookmark', 'TPlaceMarkEvent', iptrw);
21420:   OnCommandProcessed', 'TProcessCommandEvent', iptrw);
21421:   OnContextHelp', 'TContextHelpEvent', iptrw);
21422:   OnDropFiles', 'TDropFilesEvent', iptrw);
21423:   OnGutterClick', 'TGutterClickEvent', iptrw);
21424:   OnGutterGetText', 'TGutterGetTextEvent', iptrw);
21425:   OnGutterPaint', 'TGutterPaintEvent', iptrw);
21426:   OnMouseCursor', 'TMouseCursorEvent', iptrw);
21427:   OnPaint', 'TPaintEvent', iptrw);
21428:   OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
21429:   OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
21430:   OnReplaceText', 'TReplaceTextEvent', iptrw);
21431:   OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
21432:   OnStatusChange', 'TStatusChangeEvent', iptrw);
21433:   OnPaintTransient', 'TPaintTransient', iptrw);
21434:   OnScroll', 'TScrollEvent', iptrw);
21435: end;
21436: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
21437: Function GetPlaceableHighlighters : TSynHighlighterList
21438: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
21439: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
21440: Procedure GetEditorCommandValues( Proc : TGetStrProc)
21441: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
21442: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
21443: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
21444: Function ConvertCodeStringToExtended( AString : String) : String
21445: Function ConvertExtendedToCodeString( AString : String) : String
21446: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
21447: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
21448: Function IndexToEditorCommand( const AIndex : Integer) : Integer
21449:
21450: TSynEditorOption = (
21451:   eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
21452:   eoAutoIndent,                 //Will indent caret on newlines with same amount of leading whitespace as
21453:                           //preceding line
21454:   eoAutoSizeMaxScrollWidth,     //Automatically resizes the MaxScrollWidth property when inserting text
21455:   eoDisableScrollArrows,        //Disables the scroll bar arrow buttons when you can't scroll in that
21456:                           //direction any more
21457:   eoDragDropEditing,            //Allows to select a textblock and drag it in document to another location
21458:   eoDropFiles,                  //Allows the editor accept OLE file drops
21459:   eoEnhanceHomeKey,             //enhances home key positioning, similar to visual studio
21460:   eoEnhanceEndKey,              //enhances End key positioning, similar to JDeveloper
21461:   eoGroupUndo,                  //When undoing/redoing actions,handle all cont.changes same kind in onecall
21462:                           //instead undoing/redoing each command separately
21463:   eoHalfPageScroll,             //By scrolling with page-up/page-down commands,only scroll half page attime
21464:   eoHideShowScrollbars,          //if enabled, then scrollbars will only show if necessary.
21465:   If you have ScrollPastEOL,    then it the horizontal bar will always be there (it uses MaxLength instead)
21466:   eoKeepCaretX,                //When moving through lines w/o cursor Past EOL, keeps X position of cursor
21467:   eoNoCaret,                   //Makes it so the caret is never visible
21468:   eoNoSelection,                //Disables selecting text
21469:   eoRightMouseMovesCursor,      //When clicking with right mouse for popup menu, moves cursor to location
21470:   eoScrollByOneLess,             //Forces scrolling to be one less
21471:   eoScrollHintFollows,           //The scroll hint follows the mouse when scrolling vertically
21472:   eoScrollPastEof,              //Allows the cursor to go past the end of file marker
21473:   eoScrollPastEol,              //Allows cursor to go past last character into white space at end of a line
21474:   eoShowScrollHint,              //Shows a hint of the visible line numbers when scrolling vertically
21475:   eoShowSpecialChars,            //Shows the special Characters
21476:   eoSmartTabDelete,              //similar to Smart Tabs, but when you delete characters
21477:   eoSmartTabs,                  //When tabbing, cursor will go to non-white space character of previous line
21478:   eoSpecialLineDefaultFg,        //disables the foreground text color override using OnSpecialLineColor event
21479:   eoTabIndent,                  //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
21480:   eoTabsToSpaces,                //Converts a tab character to a specified number of space characters
21481:   eoTrimTrailingSpaces         //Spaces at the end of lines will be trimmed and not saved
21482:
21483: *****Important Editor Short Cuts*****;
21484: Double click to select a word and count words with highlightning.
21485: Triple click to select a line.

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21486:     CTRL+SHIFT+click to extend a selection.
21487:     Drag with the ALT key down to select columns of text !!!
21488:     Drag and drop is supported.
21489:     Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
21490:     Type CTRL+A to select all.
21491:     Type CTRL+N to set a new line.
21492:     Type CTRL+T to delete a line or token. //Tokenizer
21493:     Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
21494:     Type CTRL+Shift+T to add ToDo in line and list.
21495:     Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
21496:     Type CTRL[0..9] to jump or get to bookmarks.
21497:     Type Home to position cursor at beginning of current line and End to position it at end of line.
21498:     Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
21499:     Page Up and Page Down work as expected.
21500:     CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
21501:     using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
21502:
21503: { $ Short Key Positions Ctrl<A-Z>: }
21504: def
21505:     <A> Select All
21506:     <B> Count Words
21507:     <C> Copy
21508:     <D> Internet Start
21509:     <E> Script List
21510:     <F> Find
21511:     <G> Goto
21512:     <H> Mark Line
21513:     <I> Interface List
21514:     <J> Code Completion
21515:     <K> Console
21516:     <L> Interface List Box
21517:     <M> Font Larger -
21518:     <N> New Line
21519:     <O> Open File
21520:     <P> Font Smaller +
21521:     <Q> Quit
21522:     <R> Replace
21523:     <S> Save!
21524:     <T> Delete Line
21525:     <U> Use Case Editor
21526:     <V> Paste
21527:     <W> URI Links
21528:     <X> Reserved for coding use internal
21529:     <Y> Delete Line
21530:     <Z> Undo
21531:
21532: ref
21533:     F1 Help
21534:     F2 Syntax Check
21535:     F3 Search Next
21536:     F4 New Instance
21537:     F5 Line Mark /Breakpoint
21538:     F6 Goto End
21539:     F7 Debug Step Into
21540:     F8 Debug Step Out
21541:     F9 Compile
21542:     F10 Menu
21543:     F11 Word Count Highlight
21544:     F12 Reserved for coding use internal
21545:
21546:     AddRegisteredVariable('Application', 'TApplication');
21547:     AddRegisteredVariable('Screen', 'TScreen');
21548:     AddRegisteredVariable('Self', 'TForm');
21549:     AddRegisteredVariable('Memo1', 'TSynMemo');
21550:     AddRegisteredVariable('memo2', 'TMemo');
21551:     AddRegisteredVariable('maxForm1', 'TMaxform1'); //!
21552:     AddRegisteredVariable('debugout', 'Tdebugoutput'); //!
21553:     AddRegisteredVariable('hlog', 'THotlog'); //!
21554:     AddRegisteredVariable( it ,integer); //for closure!!
21555:     AddRegisteredVariable( sr ,string); //for closure
21556:     AddRegisteredVariable( bt ,boolean); //for closure
21557:     AddRegisteredVariable( ft ,double); //for closure
21558:     AddRegisteredVariable( srlist ,TStringlist); //for closures
21559:
21560: def ReservedWords: array[0..82] of string =
21561:     ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
21562:      'constructor', 'default', 'destructor', 'dispointerface', 'div', 'do',
21563:      'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
21564:      'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
21565:      'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
21566:      'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
21567:      'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
21568:      'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
21569:      'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
21570:      'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
21571:      'public', 'published', def, ref, using, typedef, memo1', 'memo2', 'doc', 'maxform1', 'it');
21572:     AllowedChars: array[0..5] of string = ('.', '[', ']', ',', t,t1,t2,t3: boolean;
21573: //----- ****End of mx4 Public Tools API ****
21574: //*****

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21575: //-----
21576:
21577: Amount of Functions: 13930
21578: Amount of Procedures: 8516
21579: Amount of Constructors: 1382
21580: Totals of Calls: 23828
21581: SHA1: Win of 3.9.9.120 3EB12E5729BDA745373C2743F9DD1E93C9295D
21582:
21583:
21584: ****
21585: Doc Short Manual with 50 Tips!
21586: ****
21587: - Install: just save your maxboxdef.ini before and then extract the zip file!
21588: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
21589: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
21590: - Menu: With <Ctrl><F3> you can search for code on examples
21591: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
21592: - Menu: Set Interface Naviagator in menu /View/Intf Navigator
21593: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
21594:
21595: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
21596: - Inifile: Refresh (reload) the inifile after edit with ..../Help/Config Update
21597: - Context Menu: You can printout your scripts as a pdf-file or html-export
21598: - Context: You do have a context menu with the right mouse click
21599:
21600: - Menu: With the UseCase Editor you can convert graphic formats too.
21601: - Menu: On menu Options you find Addons as compiled scripts
21602: - IDE: Menu Program: Run Only is faster, after F2 - You don't need a mouse use shortcuts
21603: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
21604: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
21605: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
21606:           or ttimer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
21607:
21608: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
21609: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
21610: - Code: If you code a loop till key-pressed use function: isKeyPressed;
21611: - Code: Macro set the macros #name,, #paAdministrorth, #file,startmaxbox_extract_funcList399.txt
21612: - Code: change Syntax in autoboot macro 'maxbootscript.txt'
21613: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
21614:           to delete and Click and mark to drag a bookmark
21615: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
21616: - IDE: A file info with system and script information you find in menu Program/Information
21617: - IDE: After change the config file in help you can update changes in menu Help/Config Update
21618: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
21619: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
21620: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
21621: - Editor: Set Bookmarks to check your work in app or code
21622: - Editor: With <Ctrl H> you set {$Active Line Color} and F11 you get Word Count Statistic on Output too
21623: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..../Help/ToDo List
21624: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
21625:
21626: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
21627: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
21628: - Menu: Set Interface Naviagator also with toggle <Ctrl L> or /View/Intf Navigator
21629: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
21630: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
21631: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
21632: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
21633: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
21634: - IDE menu /Help/Tools/ open the Task Manager
21635:
21636: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
21637: - Add on when no browser is available start /Options/Add ons/Easy Browser
21638: - Add on SOAP Tester with SOP POST File
21639: - Add on IP Protocol Sniffer with List View
21640: - Add on OpenGL mX Robot Demo for android
21641: - Add on Checkers Game, Add on Oscilloscope /View GEO Map View3
21642:
21643: - Menu: Help/Tools as a Tool Section with DOS Opener
21644: - Menu Editor: export the code as RTF File
21645: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
21646: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
21647: - Context: Auto Detect of Syntax depending on file extension
21648: - Code: some Windows API function start with w in the name like wGetAtomName();
21649: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
21650: - IDE File Check with menu ..View/File Changes/...
21651: - Context: Create a Header with Create Header in Navigator List at right window
21652: - Code: use SysErrorMessage to get a real Error Description, Ex.
21653:           RemoveDir('c:\NoSuchFolder');
21654:           writeln('System Error Message: ' + SysErrorMessage(GetLastError));
21655: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
21656: - Editor: with <Ctrl W> you can click on hyperlinks in Code - CTRL Click
21657:
21658: - using DLL example in maxbox: //function: {*****}
21659:   Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
21660:                                     cb: DWORD): BOOL; //stdcall;;
21661:   External 'GetProcessMemoryInfo@psapi.dll stdcall';
21662:   Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
21663:   External 'OpenProcess@kernel32.dll stdcall';

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21664:
21665:  GCC Compile Ex Script
21666:  procedure TFormMain_btnCompileClick(Sender: TObject);
21667:  begin
21668:    AProcess:= TProcess.Create(Nil);
21669:    try
21670:      AProcess.CommandLine := 'gcc.exe "' + OpenDialog1.FileName + '"'
21671:      + ' -o "' + OpenDialog2.FileName + '"';
21672:    AProcess.Options:= AProcess.Options + [poWaitOnExit, poUsePipes];
21673:    AProcess.Execute;
21674:    Memo2.Lines.BeginUpdate;
21675:    Memo2.Lines.Clear;
21676:    Memo2.Lines.LoadFromStream(AProcess.Output);
21677:    Memo2.Lines.EndUpdate;
21678:  finally
21679:    AProcess.Free;
21680:  end;
21681:
21682: Stopwatch pattern
21683: Timel:= Time;
21684: writeln(formatdatetime('start: hh:mm:ss:zzz',Time))
21685: if initAndStartBoard then
21686:   writeln('Filesize: '+inttostr(filesize(FILESAVE)));
21687:   writeln(formatDateTime('stop: hh:mm:ss:zzz',Time))
21688:   PrintF('%d %s',[Trunc((Time-Timel)*24),
21689:   FormatDateTime('h runtime: nn:ss:zzz',Time-Timel)])
21690:
21691: POST git-receive-pack (chunked)
21692: Pushing to https://github.com/maxkleiner/maXbox3.git
21693: To https://github.com/maxkleiner/maXbox3.git f127d21..c6a98da masterbox2 -> masterbox2
21694: updating local tracking ref 'refs/remotes/maXbox3Remote/masterbox2'
21695:
21696: History Shell Hell
21697: PCT Precompile Technology , mX4 ScriptStudio
21698: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
21699: DMATH, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
21700: emax layers: system-package-component-unit-class-function-block
21701: new keywords def ref using maXcalcF
21702: UML: use case act class state seq pac comp dep - lib lab
21703: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
21704: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
21705: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
21706: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
21707: 1 DLL Report, 24 Units add, DRTTable, Remote+, Cindy functions!
21708: DLL Report, UML Tutor, 32 Units add, DRTTable, Remote+, Cindy functions!
21709: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
21710: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, ParaDice 3D Cube Polygraph, OCR
21711: GetScript or GetWebScript, GPS Example, Profiler, Checkers, Toolbox commons
21712: Add 15 Units, Wav resources, RoundTo, OpenOffice, Pipes
21713: TFixedCriticalSection, Xplatform beta, GCC Command Pipe
21714: Inno Install and Setup Routines
21715: Add 32 Units, Wav res, RoundTo, OpenOffice, Pipes, GSM2
21716: TFixedCriticalSection, Xplatform beta, GCC Command Pipe
21717: VfW (Video), FindFirst3, Resfiler, AssemblyCache, UnitTest
21718: 9 Color LED, LED Resources, Runtime LED, it + sr var , morse generator
21719: Add 5 Units, 1 Tutors, maXmap, OpenStreetView, MAPX
21720: Function Menu/View/GEO Map View, DownloadFile, wgetX, sensors
21721: StreamUtils, IDL Syntax, OpenStreetMap, runByteCode, sensor panel, CGI of Powtils
21722: ByteCode2, IPUtils2, GEOCode, CGI-Powtils, GPS_2, External App
21723:
21724: Ref:
21725: https://unibe-ch.academia.edu/MaxKleiner
21726: http://www.slideshare.net/maxkleiner1
21727: http://www.scribd.com/max_kleiner
21728: http://www.delphiforfun.org/Programs/Utilities/index.htm
21729: http://www.slideshare.net/maxkleiner1
21730: http://s3.amazonaws.com/PreviewLinks/22959.html
21731: http://www.softwareschule.ch/arduino_training.pdf
21732: http://www.jrsoftware.org/isinfo.php
21733: http://www.be-precision.com/products/precision-builder/express/
21734: http://www.blaisepascal.eu/
21735: http://www.delphibasics.co.uk/
21736: http://www.youtube.com/watch?v=av89HAbqAsI
21737: http://www.angelfire.com/his/delphizeus/modal.html
21738: http://www.retroarchive.org/garbo/pc/turbopas/index.html
21739: https://github.com/dilshan/signalman/blob/master/SignalManTemplate.pas
21740: http://delphi.org/2014/01/every-android-api-for-delphi/
21741: https://en.wikipedia.org/wiki/User:Maxkleiner
21742: http://en.wikipedia.org/wiki/Megido_%28Free_Pascal%29
21743: https://bitbucket.org/max_kleiner/maxbox3
21744: https://bitbucket.org/max_kleiner/maxbox3/downloads
21745:
21746:
21747: UrlGoogleQrCode='http://chart.apis.google.com/chart?chs=%dx%d&cht=qr&chl=%s';
21748: UrlMapQuestAPICode2='http://open.mapquestapi.com/nominatim/v1/search.php?format=%s&json_callback
21749: =renderBasicSearchNarrative&q=%s';
21750: UrlMapQuestAPIReverse='http://open.mapquestapi.com/nominatim/v1/reverse.php?format=
21751: %s&json_callback=renderExampleThreeResults&lat=%s&lon=%s';
21752:

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21753:
21754: function OpenMap(const Data: string): boolean;
21755: var encURL: string;
21756: begin
21757:   encURL:= Format(UrlMapQuestAPICode2,['html',HTTPEncode(Data)]);
21758:   try
21759:     //HttpGetEncodedURL, mapStream); //WinInet
21760:     Result:= UrlDownloadToFile(Nil,PChar(encURL),PChar(Exepath+'openmapx.html'),0,Nil)= 0;
21761:     //OpenDoc(Exepath+'openmapx.html');
21762:     S_ShellExecute(Exepath+'openmapx.html','','seCmdOpen');
21763:   finally
21764:     encURL:= '';
21765:   end;
21766: end;
21767:
21768: procedure GetGEOMap(C_form,apath: string; const Data: string);
21769: var encodedURL: string;
21770:   mapStream: TMemoryStream;
21771: begin
21772:   //encodedURL:= Format(UrlGoogleQrCode,[Width,Height, C_Level, HTTPEncode(Data)]);
21773:   encodedURL:= Format(UrlMapQuestAPICode2,[c_form,HTTPEncode(Data)]);
21774:   mapStream:= TMemoryStream.create;
21775:   try
21776:     Wininet_HttpGet(EncodedURL, mapStream); //WinInet
21777:     mapStream.Position:= 0;
21778:     mapStream.Savetofile(apath); // OpenDoc(apath);
21779:     S_ShellExecute(apath,'',seCmdOpen);
21780:   finally
21781:     mapStream.Free;
21782:   end;
21783: end;
21784:
21785:
21786:
21787:
21788: ****
21789: unit List asm internal end
21790: ****
21791: 01 unit RIRegister_Utils_Routines(exec); //Delphi
21792: 02 unit SIRegister_IdStrings //Indy Sockets
21793: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
21794: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
21795: 05 unit IFSI_WinFormlpuzzle; //maXbox
21796: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
21797: 07 unit RegisterDateTimelibrary_R(exec); //Delphi
21798: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
21799: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
21800: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
21801: 11 unit uPSI_IdTCPConnection; //Indy some functions
21802: 12 unit uPSICompiler.pas; //PS kernel functions
21803: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
21804: 14 unit uPSI_Printers.pas //Delphi VCL
21805: 15 unit uPSI_MPlayer.pas //Delphi VCL
21806: 16 unit uPSC_comobj; //COM Functions
21807: 17 unit uPSI_Clipbrd; //Delphi VCL
21808: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
21809: 19 unit uPSI_SQLExpr; //DBX3
21810: 20 unit uPSI_ADOdb; //ADODB
21811: 21 unit uPSI_StrHlpr; //String Helper Routines
21812: 22 unit uPSI_Dateutils; //Expansion to DateTimelib
21813: 23 unit uPSI_Fileutils; //Expansion to Sys/File Utils
21814: 24 unit JUUtils / gsUtils; //Jedi / Metabase
21815: 25 unit JvFunctions_max; //Jedi Functions
21816: 26 unit HTTPParser; //Delphi VCL
21817: 27 unit HTTPUtil; //Delphi VCL
21818: 28 unit uPSI_XMLUtil; //Delphi VCL
21819: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
21820: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
21821: 31 unit uPSI_Maskutils; //RTL Edit and Mask functions
21822: 32 unit uPSI_MyBigInt; //big integer class with Math
21823: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
21824: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
21825: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
21826: 36 unit uPSI_IdHashMessageDigest //Indy Crypto;
21827: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
21828: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
21829: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
21830: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto & OpenSSL;
21831: 41 unit uPSI_FileCtrl; //Delphi RTL
21832: 42 unit uPSI_Outline; //Delphi VCL
21833: 43 unit uPSI_ScktComp; //Delphi RTL
21834: 44 unit uPSI_Calendar; //Delphi VCL
21835: 45 unit uPSI_VListView; //VListView;
21836: 46 unit uPSI_DBGrids; //Delphi VCL
21837: 47 unit uPSI_DBCtrls; //Delphi VCL
21838: 48 unit ide_debugoutput; //maXbox
21839: 49 unit uPSI_ComCtrls; //Delphi VCL
21840: 50 unit uPSC_stdctrls+; //Delphi VCL
21841: 51 unit uPSI_Dialogs; //Delphi VCL

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21842: 52 unit uPSI_StdConvs;                                //Delphi RTL
21843: 53 unit uPSI_DBClient;                               //Delphi RTL
21844: 54 unit uPSI_DBPlatform;                            //Delphi RTL
21845: 55 unit uPSI_Provider;                             //Delphi RTL
21846: 56 unit uPSI_FMTBcd;                               //Delphi RTL
21847: 57 unit uPSI_DBCGrids;                            //Delphi VCL
21848: 58 unit uPSI_CDSUtil;                             //MIDAS
21849: 59 unit uPSI_VarHlpr;                            //Delphi RTL
21850: 60 unit uPSI_ExtDlg;                             //Delphi VCL
21851: 61 unit sdpStopwatch;                           //maXbox
21852: 62 unit uPSI_JclStatistics;                      //JCL
21853: 63 unit uPSI_JclLogic;                            //JCL
21854: 64 unit uPSI_JclMiscel;                           //JCL
21855: 65 unit uPSI_JclMath_max;                         //JCL RTL
21856: 66 unit uPSI_uTPLb_StreamUtils;                  //LockBox 3
21857: 67 unit uPSI_MathUtils;                           //BCB
21858: 68 unit uPSI_JclMultimedia;                     //JCL
21859: 69 unit uPSI_WideStrUtils;                        //Delphi API/RTL
21860: 70 unit uPSI_GraphUtil;                           //Delphi RTL
21861: 71 unit uPSI_TypeTrans;                           //Delphi RTL
21862: 72 unit uPSI_HTTPApp;                            //Delphi VCL
21863: 73 unit uPSI_DBWeb;                             //Delphi VCL
21864: 74 unit uPSI_DBBdeWeb;                           //Delphi VCL
21865: 75 unit uPSI_DBXpressWeb;                        //Delphi VCL
21866: 76 unit uPSI_ShadowWnd;                           //Delphi VCL
21867: 77 unit uPSI_ToolWin;                            //Delphi VCL
21868: 78 unit uPSI_Tabs;                             //Delphi VCL
21869: 79 unit uPSI_JclGraphUtils;                      //JCL
21870: 80 unit uPSI_JclCounter;                           //JCL
21871: 81 unit uPSI_JclSysInfo;                          //JCL
21872: 82 unit uPSI_JclSecurity;                         //JCL
21873: 83 unit uPSI_JclFileUtils;                       //JCL
21874: 84 unit uPSI_IdUserAccounts;                      //Indy
21875: 85 unit uPSI_IdAuthentication;                   //Indy
21876: 86 unit uPSI_uTPLb_AES;                           //LockBox 3
21877: 87 unit uPSI_IdHashSHA1;                          //LockBox 3
21878: 88 unit uTPLb_BlockCipher;                        //LockBox 3
21879: 89 unit uPSI_ValEdit.pas;                         //Delphi VCL
21880: 90 unit uPSI_JvVCLUtils;                          //JCL
21881: 91 unit uPSI_JvDBUtil;                            //JCL
21882: 92 unit uPSI_JvDBUtils;                           //JCL
21883: 93 unit uPSI_JvAppUtils;                          //JCL
21884: 94 unit uPSI_JvCtrlUtils;                         //JCL
21885: 95 unit uPSI_JvFormToHtml;                        //JCL
21886: 96 unit uPSI_JvParsing;                           //JCL
21887: 97 unit uPSI_SerDlg;                            //Toolbox
21888: 98 unit uPSI_Serial;                            //Toolbox
21889: 99 unit uPSI_JvComponent;                        //JCL
21890: 100 unit uPSI_JvCalc;                            //JCL
21891: 101 unit uPSI_JvBdeUtils;                        //JCL
21892: 102 unit uPSI_JvDateUtil;                         //JCL
21893: 103 unit uPSI_JvGenetic;                          //JCL
21894: 104 unit uPSI_JclBase;                            //JCL
21895: 105 unit uPSI_JvUtils;                            //JCL
21896: 106 unit uPSI_JvStrUtil;                          //JCL
21897: 107 unit uPSI_JvStrUtils;                         //JCL
21898: 108 unit uPSI_JvFileUtil;                         //JCL
21899: 109 unit uPSI_JvMemoryInfos;                     //JCL
21900: 110 unit uPSI_JvComputerInfo;                    //JCL
21901: 111 unit uPSI_JvgCommClasses;                   //JCL
21902: 112 unit uPSI_JvgLogics;                          //JCL
21903: 113 unit uPSI_JvLED;                            //JCL
21904: 114 unit uPSI_JvTurtle;                           //JCL
21905: 115 unit uPSI_SortThds; unit uPSI_ThSort;        //maXbox
21906: 116 unit uPSI_JvgUtils;                           //JCL
21907: 117 unit uPSI_JvExprParser;                      //JCL
21908: 118 unit uPSI_HexDump;                           //Borland
21909: 119 unit uPSI_DBLogDlg;                          //VCL
21910: 120 unit uPSI_SqlTimSt;                           //RTL
21911: 121 unit uPSI_JvHTMLParser;                      //JCL
21912: 122 unit uPSI_JvgXMLSerializer;                  //JCL
21913: 123 unit uPSI_JvJCLUtils;                        //JCL
21914: 124 unit uPSI_JvStrings;                          //JCL
21915: 125 unit uPSI_uTPLb_IntegerUtils;                //TurboPower
21916: 126 unit uPSI_uTPLb_HugeCardinal;               //TurboPower
21917: 127 unit uPSI_uTPLb_HugeCardinalUtils;          //TurboPower
21918: 128 unit uPSI_SynRegExpr;                        //SynEdit
21919: 129 unit uPSI_StUtils;                           //SysTools4
21920: 130 unit uPSI_StToHTML;                           //SysTools4
21921: 131 unit uPSI_StStrms;                           //SysTools4
21922: 132 unit uPSI_StFIN;                            //SysTools4
21923: 133 unit uPSI_StAstroP;                          //SysTools4
21924: 134 unit uPSI_StStat;                            //SysTools4
21925: 135 unit uPSI_StNetCon;                          //SysTools4
21926: 136 unit uPSI_StDecMth;                          //SysTools4
21927: 137 unit uPSI_StOStr;                            //SysTools4
21928: 138 unit uPSI_StPtrns;                           //SysTools4
21929: 139 unit uPSI_StNetMsg;                          //SysTools4
21930: 140 unit uPSI_StMath;                            //SysTools4

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21931: 141 unit uPSI_StExpEng;                                //SysTools4
21932: 142 unit uPSI_StCRC;                                 //SysTools4
21933: 143 unit uPSI_StExport;                               //SysTools4
21934: 144 unit uPSI_StExpLog;                             //SysTools4
21935: 145 unit uPSI_ActnList;                            //Delphi VCL
21936: 146 unit uPSI_jpeg;                                //Borland
21937: 147 unit uPSI_StRandom;                           //SysTools4
21938: 148 unit uPSI_StDict;                            //SysTools4
21939: 149 unit uPSI_StBCD;                            //SysTools4
21940: 150 unit uPSI_StTxtDat;                           //SysTools4
21941: 151 unit uPSI_StRegEx;                           //SysTools4
21942: 152 unit uPSI_IMouse;                            //VCL
21943: 153 unit uPSI_SyncObjs;                           //VCL
21944: 154 unit uPSI_AsyncCalls;                          //Hausladen
21945: 155 unit uPSI_ParallelJobs;                         //Saraiva
21946: 156 unit uPSI_Variants;                            //VCL
21947: 157 unit uPSI_VarCmplx;                           //VCL Wolfram
21948: 158 unit uPSI_DTDSchema;                           //VCL
21949: 159 unit uPSI_ShLwApi;                            //Brakel
21950: 160 unit uPSI_IBUtils;                            //VCL
21951: 161 unit uPSI_CheckLst;                            //VCL
21952: 162 unit uPSI_JvSimpleXml;                          //JCL
21953: 163 unit uPSI_JclSimpleXml;                         //JCL
21954: 164 unit uPSI_JvXmlDatabase;                        //JCL
21955: 165 unit uPSI_JvMaxPixel;                           //JCL
21956: 166 unit uPSI_JvItemsSearchs;                      //JCL
21957: 167 unit uPSI_StExpEng2;                           //SysTools4
21958: 168 unit uPSI_StGenLog;                            //SysTools4
21959: 169 unit uPSI_JvLogFile;                            //Jcl
21960: 170 unit uPSI_CPort;                                //ComPort Lib v4.11
21961: 171 unit uPSI_CPortCtl;                            //ComPort
21962: 172 unit uPSI_CPortEsc;                            //ComPort
21963: 173 unit BarCodeScaner;                            //ComPort
21964: 174 unit uPSI_JvGraph;                            //JCL
21965: 175 unit uPSI_JvComCtrls;                           //JCL
21966: 176 unit uPSI_GUITesting;                          //D Unit
21967: 177 unit uPSI_JvFindFiles;                           //JCL
21968: 178 unit uPSI_StSystem;                            //SysTools4
21969: 179 unit uPSI_JvKeyboardStates;                     //JCL
21970: 180 unit uPSI_JvMail;                                //JCL
21971: 181 unit uPSI_JclConsole;                           //JCL
21972: 182 unit uPSI_JclLANMan;                           //JCL
21973: 183 unit uPSI_IdCustomHTTPServer;                   //Indy
21974: 184 unit IdHTTPServer;                            //Indy
21975: 185 unit uPSI_IdTCPServer;                           //Indy
21976: 186 unit uPSI_IdSocketHandle;                      //Indy
21977: 187 unit uPSI_IdIOHandlerSocket;                   //Indy
21978: 188 unit IdIOHandler;                            //Indy
21979: 189 unit uPSI_cututils;                            //Bloodshed
21980: 190 unit uPSI_BoldUtils;                            //boldsoft
21981: 191 unit uPSI_IdSimpleServer;                      //Indy
21982: 192 unit uPSI_IdSSLOpenSSL;                         //Indy
21983: 193 unit uPSI_IdMultipartFormData;                  //Indy
21984: 194 unit uPSI_SynURIOpener;                          //SynEdit
21985: 195 unit uPSI_PerlRegEx;                            //PCRE
21986: 196 unit uPSI_IdHeaderList;                          //Indy
21987: 197 unit uPSI_StFirst;                             //SysTools4
21988: 198 unit uPSI_JvCtrls;                            //JCL
21989: 199 unit uPSI_IdTrivialFTPBase;                    //Indy
21990: 200 unit uPSI_IdTrivialFTP;                          //Indy
21991: 201 unit uPSI_IdUDPBase;                            //Indy
21992: 202 unit uPSI_IdUDPClient;                          //Indy
21993: 203 unit uPSI_utypes;                            //for DMath.DLL
21994: 204 unit uPSI_ShellAPI;                            //Borland
21995: 205 unit uPSI_IdRemoteCMDClient;                   //Indy
21996: 206 unit uPSI_IdRemoteCMDServer;                   //Indy
21997: 207 unit IdRexecServer;                            //Indy
21998: 208 unit IdRexec; (unit uPSI_IdRexec;)           //Indy
21999: 209 unit IdUDPServer;                            //Indy
22000: 210 unit IdTimeUDPServer;                          //Indy
22001: 211 unit IdTimeServer;                            //Indy
22002: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;)       //Indy
22003: 213 unit uPSI_IdIPWatch;                           //Indy
22004: 214 unit uPSI_IdIrcServer;                          //Indy
22005: 215 unit uPSI_IdMessageCollection;                 //Indy
22006: 216 unit uPSI_cPEM;                                //Fundamentals 4
22007: 217 unit uPSI_cFundamentUtils;                     //Fundamentals 4
22008: 218 unit uPSI_uwinplot;                            //DMath
22009: 219 unit uPSI_xrtl_util_CPUUtils;                  //ExtentedRTL
22010: 220 unit uPSI_GR32_System;                           //Graphics32
22011: 221 unit uPSI_cFileUtils;                           //Fundamentals 4
22012: 222 unit uPSI_cDateTime; (timemachine)            //Fundamentals 4
22013: 223 unit uPSI_cTimers; (high precision timer)      //Fundamentals 4
22014: 224 unit uPSI_cRandom;                            //Fundamentals 4
22015: 225 unit uPSI_ueval;                             //DMath
22016: 226 unit uPSI_xrtl_net_URIUtils;                  //ExtentedRTL
22017: 227 unit xrtl_net_URIUtils;                         //ExtendedRTL
22018: 228 unit uPSI_ufft; (FFT)                         //DMath
22019: 229 unit uPSI_DBXChannel;                           //Delphi

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22020: 230 unit uPSI_DBXIndyChannel;           //Delphi Indy
22021: 231 unit uPSI_xrtl_util_COMCat;         //ExtendedRTL
22022: 232 unit uPSI_xrtl_util_StrUtils;       //ExtendedRTL
22023: 233 unit uPSI_xrtl_util_VariantUtils;   //ExtendedRTL
22024: 234 unit uPSI_xrtl_util_FileUtils;      //ExtendedRTL
22025: 235 unit xrtl_util_Compat;              //ExtendedRTL
22026: 236 unit uPSI_OleAuto;                  //Borland
22027: 237 unit uPSI_xrtl_util_COMUtils;       //ExtendedRTL
22028: 238 unit uPSI_CmAdmCtl;                 //Borland
22029: 239 unit uPSI_ValEdit2;                 //VCL
22030: 240 unit uPSI_GR32; //Graphics32        //Graphics32
22031: 241 unit uPSI_GR32_Image;               //Graphics32
22032: 242 unit uPSI_xrtl_util_TimeUtils;     //ExtendedRTL
22033: 243 unit uPSI_xrtl_util_TimeZone;      //ExtendedRTL
22034: 244 unit uPSI_xrtl_util_TimeStamp;     //ExtendedRTL
22035: 245 unit uPSI_xrtl_util_Map;           //ExtendedRTL
22036: 246 unit uPSI_xrtl_util_Set;           //ExtendedRTL
22037: 247 unit uPSI_CPortMonitor;             //ComPort
22038: 248 unit uPSI_STIniStm;                //SysTools4
22039: 249 unit uPSI_GR32_ExtImage;           //Graphics32
22040: 250 unit uPSI_GR32.OrdinalMaps;        //Graphics32
22041: 251 unit uPSI_GR32_Rasterizers;        //Graphics32
22042: 252 unit uPSI_xrtl_util_Exception;    //ExtendedRTL
22043: 253 unit uPSI_xrtl_util_Value;         //ExtendedRTL
22044: 254 unit uPSI_xrtl_util_Compare;       //ExtendedRTL
22045: 255 unit uPSI_FlatSB;                  //VCL
22046: 256 unit uPSI_JvAnalogClock;           //JCL
22047: 257 unit uPSI_JvAlarms;                //JCL
22048: 258 unit uPSI_JvSQLS;                  //JCL
22049: 259 unit uPSI_JvDBSecur;               //JCL
22050: 260 unit uPSI_JvDBQBE;                 //JCL
22051: 261 unit uPSI_JvStarfield;              //JCL
22052: 262 unit uPSI_JVCLMiscal;              //JCL
22053: 263 unit uPSI_JvProfiler32;             //JCL
22054: 264 unit uPSI_JvDirectories;            //JCL
22055: 265 unit uPSI_JclSchedule;              //JCL
22056: 266 unit uPSI_JclSvcCtrl;               //JCL
22057: 267 unit uPSI_JvSoundControl;           //JCL
22058: 268 unit uPSI_JvBDESQLScript;           //JCL
22059: 269 unit uPSI_JvgDigits;                //JCL>
22060: 270 unit uPSI_ImgList;                  //TCustomImageList
22061: 271 unit uPSI_JclMIDI;                  //JCL>
22062: 272 unit uPSI_JclWinMidi;               //JCL>
22063: 273 unit uPSI_JclNTFS;                 //JCL>
22064: 274 unit uPSI_JclAppInst;               //JCL>
22065: 275 unit uPSI_JvRle;                   //JCL>
22066: 276 unit uPSI_JvRas32;                 //JCL>
22067: 277 unit uPSI_JvImageDrawThread;        //JCL>
22068: 278 unit uPSI_JvImageWindow;             //JCL>
22069: 279 unit uPSI_JvTransparentForm;        //JCL>
22070: 280 unit uPSI_JvWinDialogs;              //JCL>
22071: 281 unit uPSI_JvSimLogic;               //JCL>
22072: 282 unit uPSI_JvSimIndicator;            //JCL>
22073: 283 unit uPSI_JvSimPID;                 //JCL>
22074: 284 unit uPSI_JvSimPIDLinker;            //JCL>
22075: 285 unit uPSI_IdRFCReply;               //Indy
22076: 286 unit uPSI_IdIdent;                  //Indy
22077: 287 unit uPSI_IdIdentServer;             //Indy
22078: 288 unit uPSI_JvPatchFile;               //JCL
22079: 289 unit uPSI_StNetPfm;                 //SysTools4
22080: 290 unit uPSI_StNet;                   //SysTools4
22081: 291 unit uPSI_JclPeImage;               //JCL
22082: 292 unit uPSI_JclPrint;                 //JCL
22083: 293 unit uPSI_JclMime;                  //JCL
22084: 294 unit uPSI_JvRichEdit;                //JCL
22085: 295 unit uPSI_JvDBRichEd;               //JCL
22086: 296 unit uPSI_JvDice;                   //JCL
22087: 297 unit uPSI_JvFloatEdit;               //JCL 3.9.8
22088: 298 unit uPSI_JvDirFrm;                 //JCL
22089: 299 unit uPSI_JvDualList;                //JCL
22090: 300 unit uPSI_JvSwitch;                 //JCL
22091: 301 unit uPSI_JvTimerLst;                //JCL
22092: 302 unit uPSI_JvMemTable;               //JCL
22093: 303 unit uPSI_JvObjStr;                 //JCL
22094: 304 unit uPSI_StLArr;                  //SysTools4
22095: 305 unit uPSI_StWmDCpy;                //SysTools4
22096: 306 unit uPSI_StText;                  //SysTools4
22097: 307 unit uPSI_StNTLog;                 //SysTools4
22098: 308 unit uPSI_xrtl_math_Integer;        //ExtendedRTL
22099: 309 unit uPSI_JvImagPrvw;               //JCL
22100: 310 unit uPSI_JvFormPatch;              //JCL
22101: 311 unit uPSI_JvPicClip;                //JCL
22102: 312 unit uPSI_JvDataConv;               //JCL
22103: 313 unit uPSI_JvCpuUsage;               //JCL
22104: 314 unit uPSI_JclUnitConv_mx2;           //JCL
22105: 315 unit JvDualListForm;                //JCL
22106: 316 unit uPSI_JvCpuUsage2;               //JCL
22107: 317 unit uPSI_JvParserForm;              //JCL
22108: 318 unit uPSI_JvJanTreeView;             //JCL

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22109: 319 unit uPSI_JvTransLED; //JCL
22110: 320 unit uPSI_JvPlaylist; //JCL
22111: 321 unit uPSI_JvFormAutoSize; //JCL
22112: 322 unit uPSI_JvYearGridEditForm; //JCL
22113: 323 unit uPSI_JvMarkupCommon; //JCL
22114: 324 unit uPSI_JvChart; //JCL
22115: 325 unit uPSI_JvXPCore; //JCL
22116: 326 unit uPSI_JvXPCoreUtils; //JCL
22117: 327 unit uPSI_StatsClasses; //mX4
22118: 328 unit uPSI_ExtCtrls2; //VCL
22119: 329 unit uPSI_JvUrlGrabbers; //JCL
22120: 330 unit uPSI_JvXmlTree; //JCL
22121: 331 unit uPSI_JvWavePlayer; //JCL
22122: 332 unit uPSI_JvUnicodeCanvas; //JCL
22123: 333 unit uPSI_JvTFUtils; //JCL
22124: 334 unit uPSI_IdServerIOHandler; //Indy
22125: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
22126: 336 unit uPSI_IdMessageCoder; //Indy
22127: 337 unit uPSI_IdMessageCoderMIME; //Indy
22128: 338 unit uPSI_IdMIMETypes; //Indy
22129: 339 unit uPSI_JvConverter; //JCL
22130: 340 unit uPSI_JvCsvParse; //JCL
22131: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
22132: 342 unit uPSI_ExcelExport; (Nat:TJSExcelExport) //JCL
22133: 343 unit uPSI_JvDBGridExport; //JCL
22134: 344 unit uPSI_JvgExport; //JCL
22135: 345 unit uPSI_JvSerialMaker; //JCL
22136: 346 unit uPSI_JvWin32; //JCL
22137: 347 unit uPSI_JvPaintFX; //JCL
22138: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
22139: 349 unit uPSI_JvValidators; (preview) //JCL
22140: 350 unit uPSI_JvNTEventLog; //JCL
22141: 351 unit uPSI_ShellZipTool; //mX4
22142: 352 unit uPSI_JvJoystick; //JCL
22143: 353 unit uPSI_JvMailSlots; //JCL
22144: 354 unit uPSI_JclComplex; //JCL
22145: 355 unit uPSI_SynPdf; //Synopse
22146: 356 unit uPSI_Registry; //VCL
22147: 357 unit uPSI_TlHelp32; //VCL
22148: 358 unit uPSI_JclRegistry; //JCL
22149: 359 unit uPSI_JvAirBrush; //JCL
22150: 360 unit uPSI_mORMotReport; //Synopse
22151: 361 unit uPSI_JclLocales; //JCL
22152: 362 unit uPSI_SynEdit; //SynEdit
22153: 363 unit uPSI_SynEditTypes; //SynEdit
22154: 364 unit uPSI_SynMacroRecorder; //SynEdit
22155: 365 unit uPSI_LongIntList; //SynEdit
22156: 366 unit uPSI_devutils; //DevC
22157: 367 unit uPSI_SynEditMiscClasses; //SynEdit
22158: 368 unit uPSI_SynEditRegexSearch; //SynEdit
22159: 369 unit uPSI_SynEditHighlighter; //SynEdit
22160: 370 unit uPSI_SynHighlighterPas; //SynEdit
22161: 371 unit uPSI_JvSearchFiles; //JCL
22162: 372 unit uPSI_SynHighlighterAny; //Lazarus
22163: 373 unit uPSI_SynEditKeyCmds; //SynEdit
22164: 374 unit uPSI_SynEditMiscProcs; //SynEdit
22165: 375 unit uPSI_SynEditKbdHandler; //SynEdit
22166: 376 unit uPSI_JvAppInst; //JCL
22167: 377 unit uPSI_JvAppEvent; //JCL
22168: 378 unit uPSI_JvAppCommand; //JCL
22169: 379 unit uPSI_JvAnimTitle; //JCL
22170: 380 unit uPSI_JvAnimatedImage; //JCL
22171: 381 unit uPSI_SynEditExport; //SynEdit
22172: 382 unit uPSI_SynExportHTML; //SynEdit
22173: 383 unit uPSI_SynExportRTF; //SynEdit
22174: 384 unit uPSI_SynEditSearch; //SynEdit
22175: 385 unit uPSI_fMain_back; //mXbox;
22176: 386 unit uPSI_JvZoom; //JCL
22177: 387 unit uPSI_PMrand; //PM
22178: 388 unit uPSI_JvSticker; //JCL
22179: 389 unit uPSI_XmlVerySimple; //mX4
22180: 390 unit uPSI_Services; //ExtPascal
22181: 391 unit uPSI_ExtPascalUtils; //ExtPascal
22182: 392 unit uPSI_SocketsDelphi; //ExtPascal
22183: 393 unit uPSI_StBarC; //SysTools
22184: 394 unit uPSI_StDbBarC; //SysTools
22185: 395 unit uPSI_StBarPN; //SysTools
22186: 396 unit uPSI_StDbPNBC; //SysTools
22187: 397 unit uPSI_StDb2DBC; //SysTools
22188: 398 unit uPSI_StMoney; //SysTools
22189: 399 unit uPSI_JvForth; //JCL
22190: 400 unit uPSI_RestRequest; //mX4
22191: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
22192: 402 unit uPSI_JvXmlDatabase; //update //JCL
22193: 403 unit uPSI_StAstro; //SysTools
22194: 404 unit uPSI_StSort; //SysTools
22195: 405 unit uPSI_StDate; //SysTools
22196: 406 unit uPSI_StDateSt; //SysTools
22197: 407 unit uPSI_StBase; //SysTools

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22198: 408 unit uPSI_StVInfo;                                //SysTools
22199: 409 unit uPSI_JvBrowseFolder;                          //JCL
22200: 410 unit uPSI_JvBoxProcs;                            //JCL
22201: 411 unit uPSI_urandom;  (unit uranuvag;)           //DMath
22202: 412 unit uPSI_usimann;  (unit ugenalg;)            //DMath
22203: 413 unit uPSI_JvHighlighter;                         //JCL
22204: 414 unit uPSI_Diff;                                 //mX4
22205: 415 unit uPSI_SpringWinAPI;                         //DSpring
22206: 416 unit uPSI_StBits;                               //SysTools
22207: 417 unit uPSI_TomDBQue;                            //mX4
22208: 418 unit uPSI_MultilangTranslator;                  //mX4
22209: 419 unit uPSI_HyperLabel;                           //mX4
22210: 420 unit uPSI_Starter;                             //mX4
22211: 421 unit uPSI_FileAssoc;                           //devC
22212: 422 unit uPSI_devFileMonitorX;                      //devC
22213: 423 unit uPSI_devrunt;                            //devC
22214: 424 unit uPSI_devExec;                            //devC
22215: 425 unit uPSI_oyxUtils;                           //devC
22216: 426 unit uPSI_DosCommand;                          //devC
22217: 427 unit uPSI_CppTokenizer;                        //devC
22218: 428 unit uPSI_JvHLPParser;                         //devC
22219: 429 unit uPSI_JclMapi;                            //JCL
22220: 430 unit uPSI_JclShell;                           //JCL
22221: 431 unit uPSI_JclCOM;                            //JCL
22222: 432 unit uPSI_GR32_Math;                           //Graphics32
22223: 433 unit uPSI_GR32_LowLevel;                      //Graphics32
22224: 434 unit uPSI_SimpleHl;                           //mX4
22225: 435 unit uPSI_GR32_Filters;                        //Graphics32
22226: 436 unit uPSI_GR32_VectorMaps;                   //Graphics32
22227: 437 unit uPSI_cXMLFunctions;                     //Fundamentals 4
22228: 438 unit uPSI_JvTimer;                            //JCL
22229: 439 unit uPSI_cHTTPUtils;                         //Fundamentals 4
22230: 440 unit uPSI_cTLSUtils;                          //Fundamentals 4
22231: 441 unit uPSI_JclGraphics;                        //JCL
22232: 442 unit uPSI_JclSynch;                           //Indy
22233: 443 unit uPSI_IdTelnet;                           //Indy
22234: 444 unit uPSI_IdTelnetServer;                    //Indy
22235: 445 unit uPSI_IdEcho;                            //Indy
22236: 446 unit uPSI_IdEchoServer;                      //Indy
22237: 447 unit uPSI_IdEchoUDP;                          //Indy
22238: 448 unit uPSI_IdEchoUDPServer;                   //Indy
22239: 449 unit uPSI_IdSocks;                           //Indy
22240: 450 unit uPSI_IdAntiFreezeBase;                  //Indy
22241: 451 unit uPSI_IdHostnameServer;                  //Indy
22242: 452 unit uPSI_IdTunnelCommon;                   //Indy
22243: 453 unit uPSI_IdTunnelMaster;                   //Indy
22244: 454 unit uPSI_IdTunnelSlave;                     //Indy
22245: 455 unit uPSI_IdRSH;                            //Indy
22246: 456 unit uPSI_IdRSHServer;                       //Indy
22247: 457 unit uPSI_Spring_Cryptography_Utils;        //Spring4Delphi
22248: 458 unit uPSI_MapReader;                          //devC
22249: 459 unit uPSI_LibTar;                            //devC
22250: 460 unit uPSI_IdStack;                           //Indy
22251: 461 unit uPSI_IdBlockCipherIntercept;           //Indy
22252: 462 unit uPSI_IdChargenServer;                  //Indy
22253: 463 unit uPSI_IdFTPServer;                      //Indy
22254: 464 unit uPSI_IdException;                      //Indy
22255: 465 unit uPSI_utexplot;                          //DMath
22256: 466 unit uPSI_uwinstr;                           //DMath
22257: 467 unit uPSI_VarRecUtils;                      //devC
22258: 468 unit uPSI_JvStringListToHtml;                //JCL
22259: 469 unit uPSI_JvStringHolder;                   //Indy
22260: 470 unit uPSI_IdCoder;                           //Indy
22261: 471 unit uPSI_SynHighlighterDfm;                //Synedit
22262: 472 unit uHighlighterProcs;  in 471          //Synedit
22263: 473 unit uPSI_LazFileUtils;                     //LCL
22264: 474 unit uPSI_IDECmdLine;                        //LCL
22265: 475 unit uPSI_lazMasks;                          //LCL
22266: 476 unit uPSI_ip_misc;                           //mX4
22267: 477 unit uPSI_Barcod;                           //LCL
22268: 478 unit uPSI_SimpleXML;                        //LCL
22269: 479 unit uPSI_JclIniFiles;                      //JCL
22270: 480 unit uPSI_D2XXUnit;  {$X-}                //FTDI
22271: 481 unit uPSI_JclDateTime;                      //JCL
22272: 482 unit uPSI_JclEDI;                           //JCL
22273: 483 unit uPSI_JclMiscel2;                      //JCL
22274: 484 unit uPSI_JclValidation;                   //JCL
22275: 485 unit uPSI_JclAnsiStrings;  {-PString}    //JCL
22276: 486 unit uPSI_SynEditMiscProcs2;                //Synedit
22277: 487 unit uPSI_JclStreams;                        //JCL
22278: 488 unit uPSI_QRCode;                           //mX4
22279: 489 unit uPSI_BlockSocket;                      //ExtPascal
22280: 490 unit uPSI_Masks_Utils;                      //VCL
22281: 491 unit uPSI_synautil;                         //Synapse!
22282: 492 unit uPSI_JclMath_Class;                    //JCL RTL
22283: 493 unit ugamdist; //Gamma function           //DMath
22284: 494 unit uibeta, ucorrel; //IBeta             //DMath
22285: 495 unit uPSI_SRMgr;                            //mX4
22286: 496 unit uPSI_HotLog;                           //mX4

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22287: 497 unit uPSI_DebugBox; //mX4
22288: 498 unit uPSI_ustrings; //DMath
22289: 499 unit uPSI_uregtest; //DMath
22290: 500 unit uPSI_usimplex; //DMath
22291: 501 unit uPSI_uhyper; //DMath
22292: 502 unit uPSI_IdHL7; //Indy
22293: 503 unit uPSI_IdIPMCastBase, //Indy
22294: 504 unit uPSI_IdIPMCastServer; //Indy
22295: 505 unit uPSI_IdIPMCastClient; //Indy
22296: 506 unit uPSI_unlfit; //nlregression //DMath
22297: 507 unit uPSI_IdRawHeaders; //Indy
22298: 508 unit uPSI_IdRawClient; //Indy
22299: 509 unit uPSI_IdRawFunctions; //Indy
22300: 510 unit uPSI_IdTCPstream; //Indy
22301: 511 unit uPSI_IdSNPP; //Indy
22302: 512 unit uPSI_St2DBarC; //SysTools
22303: 513 unit uPSI_ImageWin; //VCL
22304: 514 unit uPSI_CustomDrawTreeView; //VCL
22305: 515 unit uPSI_GraphWin; //VCL
22306: 516 unit uPSI_actionMain; //VCL
22307: 517 unit uPSI_StSpawn; //SysTools
22308: 518 unit uPSI_CtlPanel; //VCL
22309: 519 unit uPSI_IdLPR; //Indy
22310: 520 unit uPSI_SockRequestInterpreter; //Indy
22311: 521 unit uPSI_ulambert; //DMath
22312: 522 unit uPSI_ucholeski; //DMath
22313: 523 unit uPSI_SimpledDS; //VCL
22314: 524 unit uPSI_DBXSqlScanner; //VCL
22315: 525 unit uPSI_DBXMetaDataTable; //VCL
22316: 526 unit uPSI_Chart; //TEE
22317: 527 unit uPSI_TeeProcs; //TEE
22318: 528 unit mXBDEUtils; //mX4
22319: 529 unit uPSI_MDIEdit; //VCL
22320: 530 unit uPSI_CopyPrsr; //VCL
22321: 531 unit uPSI_SockApp; //VCL
22322: 532 unit uPSI_AppEvnts; //VCL
22323: 533 unit uPSI_ExtActns; //VCL
22324: 534 unit uPSI_TeEngine; //TEE
22325: 535 unit uPSI_CoolMain; //browser //VCL
22326: 536 unit uPSI_StCRC; //SysTools
22327: 537 unit uPSI_StDecMth2; //SysTools
22328: 538 unit uPSI_frmExportMain; //Synedit
22329: 539 unit uPSI_SynDBEdit; //Synedit
22330: 540 unit uPSI_SynEditWildcardSearch; //Synedit
22331: 541 unit uPSI_BoldComUtils; //BOLD
22332: 542 unit uPSI_BoldIsoDateTime; //BOLD
22333: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
22334: 544 unit uPSI_BoldXMLRequests; //BOLD
22335: 545 unit uPSI_BoldStringList; //BOLD
22336: 546 unit uPSI_BoldfileHandler; //BOLD
22337: 547 unit uPSI_BoldContainers; //BOLD
22338: 548 unit uPSI_BoldQueryUserDlg; //BOLD
22339: 549 unit uPSI_BoldWinINet; //BOLD
22340: 550 unit uPSI_BoldQueue; //BOLD
22341: 551 unit uPSI_JvPcx; //JCL
22342: 552 unit uPSI_IdWhois; //Indy
22343: 553 unit uPSI_IdWhoisServer; //Indy
22344: 554 unit uPSI_IdGopher; //Indy
22345: 555 unit uPSI_IdDateTimeStamp; //Indy
22346: 556 unit uPSI_IdDayTimeServer; //Indy
22347: 557 unit uPSI_IdDayTimeUDP; //Indy
22348: 558 unit uPSI_IdDayTimeUDPServer; //Indy
22349: 559 unit uPSI_IdDICTServer; //Indy
22350: 560 unit uPSI_IdDiscardServer; //Indy
22351: 561 unit uPSI_IdDiscardUDPServer; //Indy
22352: 562 unit uPSI_IdMappedFTP; //Indy
22353: 563 unit uPSI_IdMappedPortTCP; //Indy
22354: 564 unit uPSI_IdGopherServer; //Indy
22355: 565 unit uPSI_IdQotdServer; //Indy
22356: 566 unit uPSI_JvRgbToHtml; //JCL
22357: 567 unit uPSI_JvRemLog; //JCL
22358: 568 unit uPSI_JvSysComp; //JCL
22359: 569 unit uPSI_JvtMTL; //JCL
22360: 570 unit uPSI_JvWinampAPI; //JCL
22361: 571 unit uPSI_MSysUtils; //mX4
22362: 572 unit uPSI_ESBMaths; //ESB
22363: 573 unit uPSI_ESBMaths2; //ESB
22364: 574 unit uPSI_uLkJSON; //Lk
22365: 575 unit uPSI_ZURL; //Zeos
22366: 576 unit uPSI_ZSysUtils; //Zeos
22367: 577 unit unaUtils internals //UNA
22368: 578 unit uPSI_ZMatchPattern; //Zeos
22369: 579 unit uPSI_ZClasses; //Zeos
22370: 580 unit uPSI_ZCollections; //Zeos
22371: 581 unit uPSI_ZEncoding; //Zeos
22372: 582 unit uPSI_IdRawBase; //Indy
22373: 583 unit uPSI_IdNTLM; //Indy
22374: 584 unit uPSI_IdNNTP; //Indy
22375: 585 unit uPSI_usniffer; //PortScanForm //mX4

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22376: 586 unit uPSI_IdCoderMIME;                                //Indy
22377: 587 unit uPSI_IdCoderUUE;                                //Indy
22378: 588 unit uPSI_IdCoderXXE;                                //Indy
22379: 589 unit uPSI_IdCoder3to4;                               //Indy
22380: 590 unit uPSI_IdCookie;                                 //Indy
22381: 591 unit uPSI_IdCookieManager;                            //Indy
22382: 592 unit uPSI_WDOSocketUtils;                            //WDOS
22383: 593 unit uPSI_WDOSplcUtils;                             //WDOS
22384: 594 unit uPSI_WDOSPorts;                                //WDOS
22385: 595 unit uPSI_WDOSResolvers;                            //WDOS
22386: 596 unit uPSI_WDOSTimers;                               //WDOS
22387: 597 unit uPSI_WDOSPlcs;                                //WDOS
22388: 598 unit uPSI_WDOSPneumatics;                           //WDOS
22389: 599 unit uPSI_IdFingerServer;                            //Indy
22390: 600 unit uPSI_IdDDNSResolver;                            //Indy
22391: 601 unit uPSI_IdHTTPWebBrokerBridge;                   //Indy
22392: 602 unit uPSI_IdIntercept;                              //Indy
22393: 603 unit uPSI_IdIPMCastBase;                            //Indy
22394: 604 unit uPSI_IdLogBase;                                //Indy
22395: 605 unit uPSI_IdIOHandlerStream;                         //Indy
22396: 606 unit uPSI_IdMappedPortUDP;                           //Indy
22397: 607 unit uPSI_IdQOTDUDPServer;                          //Indy
22398: 608 unit uPSI_IdQOTDUDP;                               //Indy
22399: 609 unit uPSI_IdSysLog;                                //Indy
22400: 610 unit uPSI_IdSysLogServer;                            //Indy
22401: 611 unit uPSI_IdSysLogMessage;                           //Indy
22402: 612 unit uPSI_IdTimeServer;                            //Indy
22403: 613 unit uPSI_IdTimeUDP;                               //Indy
22404: 614 unit uPSI_IdTimeUDPServer;                          //Indy
22405: 615 unit uPSI_IdUserAccounts;                           //Indy
22406: 616 unit uPSI_TextUtils;                                //mX4
22407: 617 unit uPSI_MandelbrotEngine;                          //mX4
22408: 618 unit uPSI_delphi_arduino_Unit1;                     //mX4
22409: 619 unit uPSI_DTDSCHEMA2;                             //mX4
22410: 620 unit uPSI_fpilotMain;                               //DMath
22411: 621 unit uPSI_FindFileIter;                            //mX4
22412: 622 unit uPSI_PppState;     (JclStrHashMap)           //PPP
22413: 623 unit uPSI_PppParser;                               //PPP
22414: 624 unit uPSI_PppLexer;                               //PPP
22415: 625 unit uPSI_PCharUtils;                            //PPP
22416: 626 unit uPSI_uJSON;                                  //WU
22417: 627 unit uPSI_JclStrHashMap;                           //JCL
22418: 628 unit uPSI_JclHookExcept;                           //JCL
22419: 629 unit uPSI_EncdDecd;                               //VCL
22420: 630 unit uPSI_SockAppReg;                            //VCL
22421: 631 unit uPSI_PJFileHandle;                           //PJ
22422: 632 unit uPSI_PJEnvVars;                            //PJ
22423: 633 unit uPSI_PJPipe;                                //PJ
22424: 634 unit uPSI_PJPipeFilters;                          //PJ
22425: 635 unit uPSI_PJConsoleApp;                           //PJ
22426: 636 unit uPSI_UConsoleAppEx;                          //PJ
22427: 637 unit uPSI_DbSocketChannelNative;                  //VCL
22428: 638 unit uPSI_DbxDatagenerator;                      //VCL
22429: 639 unit uPSI_DBXClient;                             //VCL
22430: 640 unit uPSI_IdLogEvent;                            //Indy
22431: 641 unit uPSI_Reversi;                               //mX4
22432: 642 unit uPSI_Geometry;                             //mX4
22433: 643 unit uPSI_IdSMTPServer;                           //Indy
22434: 644 unit uPSI_Textures;                             //mX4
22435: 645 unit uPSI_IBX;                                  //VCL
22436: 646 unit uPSI_IWDBCommon;                           //VCL
22437: 647 unit uPSI_SortGrid;                            //mX4
22438: 648 unit uPSI_IB;                                   //VCL
22439: 649 unit uPSI_IBScript;                            //VCL
22440: 650 unit uPSI_JvCSVBaseControls;                   //JCL
22441: 651 unit uPSI_Jvg3DColors;                          //JCL
22442: 652 unit uPSI_JvHLEditor; //beat                 //JCL
22443: 653 unit uPSI_JvShellHook;                           //JCL
22444: 654 unit uPSI_DBCommon2;                            //VCL
22445: 655 unit uPSI_JvSHFileOperation;                   //JCL
22446: 656 unit uPSI_uFileExport;                           //mX4
22447: 657 unit uPSI_JvDialogs;                            //JCL
22448: 658 unit uPSI_JvDBTreeview;                          //JCL
22449: 659 unit uPSI_JvDBUltimGrid;                         //JCL
22450: 660 unit uPSI_JvDBQueryParamsForm;                  //JCL
22451: 661 unit uPSI_JvExControls;                          //JCL
22452: 662 unit uPSI_JvBDEMemTable;                        //JCL
22453: 663 unit uPSI_JvCommStatus;                          //JCL
22454: 664 unit uPSI_JvMailSlots2;                          //JCL
22455: 665 unit uPSI_JvgWinMask;                            //JCL
22456: 666 unit uPSI_StEclipse;                            //SysTools
22457: 667 unit uPSI_StMime;                               //SysTools
22458: 668 unit uPSI_StList;                               //SysTools
22459: 669 unit uPSI_StMerge;                             //SysTools
22460: 670 unit uPSI_StStrS;                             //SysTools
22461: 671 unit uPSI_StTree;                             //SysTools
22462: 672 unit uPSI_StVArr;                             //SysTools
22463: 673 unit uPSI_StRegIni;                            //SysTools
22464: 674 unit uPSI_urkf;                               //DMath

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22465: 675 unit uPSI_usvd;                                //DMath
22466: 676 unit uPSI_DepWalkUtils;                         //JCL
22467: 677 unit uPSI_OptionsFrm;                            //JCL
22468: 678 unit yuvconverts;                               //mX4
22469: 679 uPSI_JvPropAutoSave;                            //JCL
22470: 680 uPSI_AclAPI;                                  //alcinoe
22471: 681 uPSI_AviCap;                                 //alcinoe
22472: 682 uPSI_ALAVLBinaryTree;                          //alcinoe
22473: 683 uPSI_ALFcMisc;                                //alcinoe
22474: 684 uPSI_ALStringList;                            //alcinoe
22475: 685 uPSI_ALQuickSortList;                          //alcinoe
22476: 686 uPSI_ALStaticText;                            //alcinoe
22477: 687 uPSI_ALJSONDoc;                               //alcinoe
22478: 688 uPSI_ALGSMComm;                             //alcinoe
22479: 689 uPSI_ALWindows;                             //alcinoe
22480: 690 uPSI_ALMultiPartFormDataParser;                //alcinoe
22481: 691 uPSI_ALHttpCommon;                           //alcinoe
22482: 692 uPSI_ALWebSpider;                            //alcinoe
22483: 693 uPSI_ALHttpClient;                           //alcinoe
22484: 694 uPSI_ALFcHTML;                                //alcinoe
22485: 695 uPSI_ALFTPClient;                            //alcinoe
22486: 696 uPSI_ALInternetMessageCommon;                 //alcinoe
22487: 697 uPSI_ALWininetHttpClient;                     //alcinoe
22488: 698 uPSI_ALWinInetFTPClient;                      //alcinoe
22489: 699 uPSI_ALWinHttpWrapper;                        //alcinoe
22490: 700 uPSI_ALWinHttpClient;                          //alcinoe
22491: 701 uPSI_ALFcWinSock;                            //alcinoe
22492: 702 uPSI_ALFcSQL;                                //alcinoe
22493: 703 uPSI_ALFcCGI;                                //alcinoe
22494: 704 uPSI_ALFcExecute;                            //alcinoe
22495: 705 uPSI_ALFcFile;                                //alcinoe
22496: 706 uPSI_ALFcMimeType;                           //alcinoe
22497: 707 uPSI_ALPhpRunner;                            //alcinoe
22498: 708 uPSI_ALGraphic;                             //alcinoe
22499: 709 uPSI_ALIniFiles;                            //alcinoe
22500: 710 uPSI_ALMemCachedClient;                      //alcinoe
22501: 711 unit uPSI_MyGrids;                            //mX4
22502: 712 uPSI_ALMultiPartMixedParser;                  //alcinoe
22503: 713 uPSI_ALSMTPCClient;                          //alcinoe
22504: 714 uPSI_ALNNTPClient;                           //alcinoe
22505: 715 uPSI_ALHintBalloon;                           //alcinoe
22506: 716 unit uPSI_ALXmlDoc;                           //alcinoe
22507: 717 unit uPSI_IPCThrd;                            //VCL
22508: 718 unit uPSI_MonForm;                            //VCL
22509: 719 unit uPSI_TeCanvas;                           //Orpheus
22510: 720 unit uPSI_Ovcmisc;                            //Orpheus
22511: 721 unit uPSI_ovcfiler;                           //Orpheus
22512: 722 unit uPSI_ovcstate;                           //Orpheus
22513: 723 unit uPSI_ovccoco;                           //Orpheus
22514: 724 unit uPSI_ovcrvexp;                           //Orpheus
22515: 725 unit uPSI_OvcFormatSettings;                  //Orpheus
22516: 726 unit uPSI_OvcUtils;                           //Orpheus
22517: 727 unit uPSI_ovcstore;                           //Orpheus
22518: 728 unit uPSI_ovcstr;                            //Orpheus
22519: 729 unit uPSI_ovcmru;                            //Orpheus
22520: 730 unit uPSI_ovccmd;                            //Orpheus
22521: 731 unit uPSI_ovctimer;                           //Orpheus
22522: 732 unit uPSI_ovcintl;                            //Orpheus
22523: 733 uPSI_AfCircularBuffer;                      //AsyncFree
22524: 734 uPSI_AfUtils;                                //AsyncFree
22525: 735 uPSI_AfSafeSync;                            //AsyncFree
22526: 736 uPSI_AfComPortCore;                          //AsyncFree
22527: 737 uPSI_AfComPort;                             //AsyncFree
22528: 738 uPSI_AfPortControls;                         //AsyncFree
22529: 739 uPSI_AfDataDispatcher;                       //AsyncFree
22530: 740 uPSI_AfViewers;                             //AsyncFree
22531: 741 uPSI_AfDataTerminal;                         //AsyncFree
22532: 742 uPSI_SimplePortMain;                         //AsyncFree
22533: 743 unit uPSI_ovcclock;                           //Orpheus
22534: 744 unit uPSI_o32intlst;                          //Orpheus
22535: 745 unit uPSI_o32ledlabel;                        //Orpheus
22536: 746 unit uPSI_AlMySqlClient;                     //alcinoe
22537: 747 unit uPSI_ALFBXClient;                        //alcinoe
22538: 748 unit uPSI_ALFcSQL;                            //alcinoe
22539: 749 unit uPSI_AsyncTimer;                          //mX4
22540: 750 unit uPSI_ApplicationFileIO;                  //mX4
22541: 751 unit uPSI_PsAPI;                             //VCLé
22542: 752 uPSI_ovcuser;                                //Orpheus
22543: 753 uPSI_ovcurl;                                //Orpheus
22544: 754 uPSI_ovcvlb;                                //Orpheus
22545: 755 uPSI_ovccolor;                             //Orpheus
22546: 756 uPSI_ALFBXlib;                             //alcinoe
22547: 757 uPSI_ovcmeter;                             //Orpheus
22548: 758 uPSI_ovcpeakm;                            //Orpheus
22549: 759 uPSI_O32BGSty;                            //Orpheus
22550: 760 uPSI_ovcBidi;                                //Orpheus
22551: 761 uPSI_ovctcarry;                            //Orpheus
22552: 762 uPSI_DXPUtils;                            //mX4
22553: 763 uPSI_ALMultiPartBaseParser;                  //alcinoe

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22554: 764 uPSI_ALMultiPartAlternativeParser;           //alcinoe
22555: 765 uPSI_ALPOP3Client;                         //alcinoe
22556: 766 uPSI_SmallUtils;                           //mX4
22557: 767 uPSI_MakeApp;                            //Orpheus
22558: 768 uPSI_O32MouseMon;                         //Orpheus
22559: 769 uPSI_OvcCache;                           //Orpheus
22560: 770 uPSI_ovccalc;                            //Orpheus
22561: 771 uPSI_Joystick;                           //OpenGL
22562: 772 uPSI_ScreenSaver;                         //OpenGL
22563: 773 uPSI_XCollection;                        //OpenGL
22564: 774 uPSI_Polynomials;                        //OpenGL
22565: 775 uPSI_PersistentClasses, //9.86          //OpenGL
22566: 776 uPSI_VectorLists;                         //OpenGL
22567: 777 uPSI_XOpenGL;                            //OpenGL
22568: 778 uPSI_MeshUtils;                          //OpenGL
22569: 779 unit uPSI_JclSysUtils;                  //JCL
22570: 780 unit uPSI_JclBorlandTools;               //JCL
22571: 781 unit JclFileUtils_max;                  //JCL
22572: 782 uPSI_AfDataControls;                    //AsyncFree
22573: 783 uPSI_GLSilhouette;                     //OpenGL
22574: 784 uPSI_JclSysUtils_class;                 //JCL
22575: 785 uPSI_JclFileUtils_class;                //JCL
22576: 786 uPSI_FileUtil;                          //JCL
22577: 787 uPSI_changefind;                        //mX4
22578: 788 uPSI_CmdIntf;                           //mX4
22579: 789 uPSI_fservice;                          //mX4
22580: 790 uPSI_Keyboard;                          //OpenGL
22581: 791 uPSI_VRMLParser;                       //OpenGL
22582: 792 uPSI_GLFileVRML;                      //OpenGL
22583: 793 uPSI_Octree;                           //OpenGL
22584: 794 uPSI_GLPolyhedron;                     //OpenGL
22585: 795 uPSI_GLCrossPlatform;                  //OpenGL
22586: 796 uPSI_GLParticles;                     //OpenGL
22587: 797 uPSI_GLNavigator;                      //OpenGL
22588: 798 uPSI_GLStarRecord;                    //OpenGL
22589: 799 uPSI_GLTextureCombiners;              //OpenGL
22590: 800 uPSI_GLCanvas;                         //OpenGL
22591: 801 uPSI_GeometryBB;                       //OpenGL
22592: 802 uPSI_GeometryCoordinates;              //OpenGL
22593: 803 uPSI_VectorGeometry;                  //OpenGL
22594: 804 uPSI_BumpMapping;                     //OpenGL
22595: 805 uPSI_TGA;                            //OpenGL
22596: 806 uPSI_GLVectorFileObjects;             //OpenGL
22597: 807 uPSI_IMM;                           //VCL
22598: 808 uPSI_CategoryButtons;                 //VCL
22599: 809 uPSI_ButtonGroup;                    //VCL
22600: 810 uPSI_DbExcept;                        //VCL
22601: 811 uPSI_AxCtrls;                         //VCL
22602: 812 uPSI_GL_actorUnit1;                  //OpenGL
22603: 813 uPSI_StdVCL;                         //VCL
22604: 814 unit CurvesAndSurfaces;              //OpenGL
22605: 815 uPSI_DataAwareMain;                  //AsyncFree
22606: 816 uPSI_TabNotBk;                        //VCL
22607: 817 uPSI_udwsfiler;                     //mX4
22608: 818 uPSI_synaip;                         //Synapse!
22609: 819 uPSI_synacode;                      //Synapse
22610: 820 uPSI_synachar;                      //Synapse
22611: 821 uPSI_synamisc;                      //Synapse
22612: 822 uPSI_synaser;                       //Synapse
22613: 823 uPSI_synaincv;                     //Synapse
22614: 824 uPSI_tlntrsend;                     //Synapse
22615: 825 uPSI_pingsend;                      //Synapse
22616: 826 uPSI_blksock;                        //Synapse
22617: 827 uPSI_asnlutil;                      //Synapse
22618: 828 uPSI_dnssend;                        //Synapse
22619: 829 uPSI_clamsend;                      //Synapse
22620: 830 uPSI_ldapsend;                      //Synapse
22621: 831 uPSI_mimemess;                      //Synapse
22622: 832 uPSI_slogsend;                      //Synapse
22623: 833 uPSI_mimepart;                      //Synapse
22624: 834 uPSI_mimeinln;                      //Synapse
22625: 835 uPSI_ftpsend;                       //Synapse
22626: 836 uPSI_ftptsend;                      //Synapse
22627: 837 uPSI_httpsend;                      //Synapse
22628: 838 uPSI_sntpsend;                      //Synapse
22629: 839 uPSI_smtpsend;                      //Synapse
22630: 840 uPSI_snmpsend;                      //Synapse
22631: 841 uPSI_imapsend;                      //Synapse
22632: 842 uPSI_pop3send;                      //Synapse
22633: 843 uPSI_nntpsend;                      //Synapse
22634: 844 uPSI_ssl_cryptlib;                  //Synapse
22635: 845 uPSI_ssl_openssl;                  //Synapse
22636: 846 uPSI_synhttp_daemon;                //Synapse
22637: 847 uPSI_NetWork;                        //mX4
22638: 848 uPSI_PingThread;                    //Synapse
22639: 849 uPSI_JvThreadTimer;                 //JCL
22640: 850 unit uPSI_wwSystem;                  //InfoPower
22641: 851 unit uPSI_IdComponent;               //Indy
22642: 852 unit uPSI_IdIOHandlerThrottle;       //Indy

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22643: 853 unit uPSI_Themes; //VCL
22644: 854 unit uPSI_StdStyleActnCtrls; //VCL
22645: 855 unit uPSI_UDDIHelper; //VCL
22646: 856 unit uPSI_IdIMAP4Server; //Indy
22647: 857 uPSI_VariantSymbolTable; //VCL //3.9.9.92
22648: 858 uPSI_udf_glob; //mX4
22649: 859 uPSI_TabGrid; //VCL
22650: 860 uPSI_JsDBTreeView; //mX4
22651: 861 uPSI_JsSendMail; //mX4
22652: 862 uPSI_dbTvRecordList; //mX4
22653: 863 uPSI_TreeVwEx; //mX4
22654: 864 uPSI_ECDdataLink; //mX4
22655: 865 uPSI_dbTree; //mX4
22656: 866 uPSI_dbTreeCBox; //mX4
22657: 867 unit uPSI_Debug; //TfrmDebug //mX4
22658: 868 uPSI_TimeFncs; //mX4
22659: 869 uPSI_FileIntf; //VCL
22660: 870 uPSI_SockTransport; //RTL
22661: 871 unit uPSI_WinInet; //RTL
22662: 872 unit uPSI_WWSTR; //mX4
22663: 873 uPSI_DBLookup; //VCL
22664: 874 uPSI_Hotspot; //mX4
22665: 875 uPSI_HList; //History List //mX4
22666: 876 unit uPSI_DrTable; //VCL
22667: 877 uPSI_TConnect; //VCL
22668: 878 uPSI_DataBkr; //VCL
22669: 879 uPSI_HTTPIntr; //VCL
22670: 880 unit uPSI_Mathbox; //mX4
22671: 881 uPSI_cyIndy; //cY
22672: 882 uPSI_cySysUtils; //cY
22673: 883 uPSI_cyWinUtils; //cY
22674: 884 uPSI_cyStrUtils; //cY
22675: 885 uPSI_cyObjUtils; //cY
22676: 886 uPSI_cyDateUtils; //cY
22677: 887 uPSI_cyBDE; //cY
22678: 888 uPSI_cyClasses; //cY
22679: 889 uPSI_cyGraphics; //3.9.9.94_2 //cY
22680: 890 unit uPSI_cyTypes; //cY
22681: 891 uPSI_JvDateTimePicker; //JCL
22682: 892 uPSI_JvCreateProcess; //JCL
22683: 893 uPSI_JvEasterEgg; //JCL
22684: 894 uPSI_WinSvc; //3.9.9.94_3 //VCL
22685: 895 uPSI_SvcMgr; //VCL
22686: 896 unit uPSI_JvPickDate; //JCL
22687: 897 unit uPSI_JvNotify; //JCL
22688: 898 uPSI_JvStrHlder; //JCL
22689: 899 unit uPSI_JclNTFS2; //JCL
22690: 900 uPSI_Jcl18087 //math coprocessor //JCL
22691: 901 uPSI_JvAddPrinter; //JCL
22692: 902 uPSI_JvCabfile; //JCL
22693: 903 uPSI_JvDataEmbedded; //JCL
22694: 904 unit uPSI_U_HexView; //mX4
22695: 905 uPSI_UWavein4; //mX4
22696: 906 uPSI_AMixer; //mX4
22697: 907 uPSI_JvaScrollText; //mX4
22698: 908 uPSI_JvArrow; //mX4
22699: 909 unit uPSI.UrlMon; //mX4
22700: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
22701: 911 unit uPSI_U_Oscilloscope4; //TOscfrmMain; //DFF
22702: 912 unit uPSI_DFFUtils; //DFF
22703: 913 unit uPSI_MathsLib; //DFF
22704: 914 uPSI_UIntList; //DFF
22705: 915 uPSI_UGetParents; //DFF
22706: 916 unit uPSI_UGeometry; //DFF
22707: 917 unit uPSI_UAstronomy; //DFF
22708: 918 unit uPSI_UCardComponentV2; //DFF
22709: 919 unit uPSI_UTGraphSearch; //DFF
22710: 920 unit uPSI_UParser10; //DFF
22711: 921 unit uPSI_cyIEUtils; //cY
22712: 922 unit uPSI_UcomboV2; //DFF
22713: 923 uPSI_cyBaseComm; //cY
22714: 924 uPSI_cyAppInstances; //cY
22715: 925 uPSI_cyAttract; //cY
22716: 926 uPSI_cyDERUtils; //cY
22717: 927 unit uPSI_cyDocER; //cY
22718: 928 unit uPSI_ODBC; //mX
22719: 929 unit uPSI_AssocExec; //mX
22720: 930 uPSI_cyBaseCommRoomConnector; //cY
22721: 931 uPSI_cyCommRoomConnector; //cY
22722: 932 uPSI_cyCommunicate; //cY
22723: 933 uPSI_cyImage; //cY
22724: 934 uPSI_cyBaseContainer; //cY
22725: 935 uPSI_cyModalContainer; //cY
22726: 936 uPSI_cyFlyingContainer; //cY
22727: 937 uPSI_RegStr; //VCL
22728: 938 uPSI_HtmlHelpViewer; //VCL
22729: 939 unit uPSI_cyInifrom; //cY
22730: 940 unit uPSI_cyVirtualGrid; //cY
22731: 941 uPSI_Profiler; //DA

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22732: 942 uPSI_BackgroundWorker, //DA
22733: 943 uPSI_WavePlay, //DA
22734: 944 uPSI_WaveTimer, //DA
22735: 945 uPSI_WaveUtils; //DA
22736: 946 uPSI_NamedPipes, //TB
22737: 947 uPSI_NamedPipeServer, //TB
22738: 948 unit uPSI_process, //TB
22739: 949 unit uPSI_DPUtils; //TB
22740: 950 unit uPSI_CommonTools; //TB
22741: 951 uPSI_DataSendToWeb, //TB
22742: 952 uPSI_StarCalc, //TB
22743: 953 uPSI_D2_XPVistaHelperU //TB
22744: 954 unit uPSI_NetTools //TB
22745: 955 unit uPSI_Pipes //TB
22746: 956 uPSI_ProcessUnit, //mX
22747: 957 uPSI_adGSM, //mX
22748: 958 unit uPSI_BetterADODataSet; //mX
22749: 959 unit uPSI_AdSelCom; //FTT //mX
22750: 960 unit unit uPSI_dwsXPlatform; //DWS
22751: 961 uPSI_AdSocket; //mX Turbo Power
22752: 962 uPSI_AdPacket; //mX
22753: 963 uPSI_AdPort; //mX
22754: 964 uPSI_PathFunc; //Inno
22755: 965 uPSI_CmnFunc; //Inno
22756: 966 uPSI_CmnFunc2; //Inno Setup
22757: 967 unit uPSI_BitmapImage; //mX4
22758: 968 unit uPSI_ImageGrabber; //mX4
22759: 969 uPSI_SecurityFunc, //Inno
22760: 970 uPSI_RedirFunc, //Inno
22761: 971 uPSI_FIFO, (MemoryStream) //mX4
22762: 972 uPSI_Int64Em, //Inno
22763: 973 unit uPSI_InstFunc; //Inno
22764: 974 unit uPSI_LibFusion; //Inno
22765: 975 uPSI_SimpleExpression; //Inno
22766: 976 uPSI_unitResourceDetails, //XN
22767: 977 uPSI_unitResFile, //XN
22768: 978 unit uPSI_simpleComport; //mX4
22769: 979 unit uPSI_AfViewershelpers; //Async
22770: 980 unit uPSI_Console; //mX4
22771: 981 unit uPSI_AnalogMeter; //TB
22772: 982 unit uPSI_XPrinter, //TB
22773: 983 unit uPSI_IniFiles; //VCL
22774: 984 unit uPSI_lazIniFiles; //FP
22775: 985 uPSI_testutils; //FP
22776: 986 uPSI_ToolsUnit; (DBTests) //FP
22777: 987 uPSI_fpcunit //FP
22778: 988 uPSI_testdecorator; //FP
22779: 989 unit uPSI_fpcunittests; //FP
22780: 990 unit uPSI_cTCPBuffer; //Fundamentals 4
22781: 991 unit uPSI_Glut, //OpenGL
22782: 992 uPSI_LEDBitmaps, //mX4
22783: 993 uPSI_FileClass, //Inno
22784: 994 uPSI_UtilsClass, //mX4
22785: 995 uPSI_ComPortInterface; //Kit //mX4
22786: 996 unit uPSI_SwitchLed; //mX4
22787: 997 unit uPSI_cyDmmCanvas; //cY
22788: 998 uPSI_uColorFunctions; //DFD
22789: 999 uPSI_uSettings; //DDFF
22790: 1000 uPSI_cyDebug.pas //cY
22791: 1001 uPSI_cyColorMatrix; //cY
22792: 1002 unit uPSI_cyCopyFiles; //cY
22793: 1003 unit uPSI_cySearchfiles; //cY
22794: 1004 unit uPSI_cyBaseMeasure; //cY
22795: 1005 unit uPSI_PJIStrams; //DD
22796: 1006 unit uPSI_cyRunTimeResize; //cY
22797: 1007 unit uPSI_jcontrolutils; //cY
22798: 1008 unit uPSI_kcMapView; (+GEONames) //kc
22799: 1009 unit uPSI_kcMapViewDESynapse; //kc
22800: 1010 unit uPSI_cparserutils; (+GIS_SysUtils) //kc
22801: 1011 unit uPSI_LedNumber; //TurboPower
22802: 1012 unit uPSI_StStrL; //SysTools
22803: 1013 unit uPSI_indGnouMeter; //LAZ
22804: 1014 unit uPSI_Sensors; //LAZ
22805: 1015 unit uPSI_pwmain; //cgi of powtills //Pow
22806: 1016 unit uPSI_HTMLUtil; //Pow
22807: 1017 unit uPSI_synwrap1; //httpsend //Pow
22808: 1018 unit StreamWrap1 //Pow
22809: 1019 unit uPSI_pwmain; //Pow
22810: 1020 unit pwtypes //Pow
22811: 1021 uPSI_W32VersionInfo //LAZ
22812: 1022 unit uPSI_IpAnim; //LAZ
22813: 1023 unit uPSI_IpUtils; //iputils2(TurboPower) //TP
22814: 1024 unit uPSI_LrtPoTools; //LAZ
22815: 1025 unit uPSI_Laz_DOM; //LAZ
22816: 1026 unit uPSI_hhAvComp; //LAZ
22817: 1027 unit uPSI_GPS2; //mX4
22818: 1028 unit uPSI_GPS; //mX4
22819: 1029 unit uPSI_GPSUDemo; // formtemplate TFDemo//mX4
22820: 1030 unit uPSI_NMEA; // GPS //mX4

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22821: 1031 unit uPSI_ScreenThreeDLab; //mX4
22822: 1032 unit uPSI_Spin; //VCL
22823: 1033 unit uPSI_DynaZip; //mX4
22824: 1034 unit uPSI_clockExpert; //TB
22825: 1035 unit debugLn //mX4
22826: 1036 uPSI_SortUtils; //Jcl
22827: 1037 uPSI_BitmapConversion; //Jcl
22828: 1038 unit uPSI_JclTD32; //Jcl
22829: 1039 unit uPSI_ZDbcUtils; //Zeos
22830: 1040 unit uPSI_ZScriptParser; //Zeos
22831: 1041 uPSI_JvIni; //JCL
22832: 1042 uPSI_JvFtpGrabber; //JCL
22833: 1043 unit uPSI_NeuralNetwork; //OCL
22834: 1044 unit uPSI_StExpr; //SysTools
22835: 1045 unit uPSI_GR32_Geometry; //GR32
22836: 1046 unit uPSI_GR32_Containers; //GR32
22837: 1047 unit uPSI_GR32_Backends_VCL, //GR32
22838: 1048 unit uPSI_StSaturn; //Venus+Mercury+Mars++ //SysTools
22839: 1049 unit uPSI_JclParseUses; //JCL
22840: 1050 unit uPSI_JvFinalize; //JCL
22841: 1051 unit uPSI_panUnit1; //GLScene
22842: 1052 unit uPSI_DD83ul; //Arduino Tester //mX4
22843:
22844:
22845: //////////////////////////////// //Form Template Library FTL
22846: //Form Template Library FTL
22847: //////////////////////////////// //Form Template Library FTL
22848:
22849: 36 FTL For Form Building out of the Script, eg. 399_form_templates.txt
22850:
22851: 045 unit uPSI_VListView TFormListView;
22852: 263 unit uPSI_JvProfiler32; TProfReport
22853: 270 unit uPSI_ImgList; TCustomImageList
22854: 278 unit uPSI_JvImageWindow; TJvImageWindow
22855: 317 unit uPSI_JvParserForm; TJvHTMLParserForm
22856: 497 unit uPSI_DebugBox; TDebugBox
22857: 513 unit uPSI_ImageWin; TImageForm, TImageForm2
22858: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm
22859: 515 unit uPSI_GraphWin; TGraphWinForm
22860: 516 unit uPSI_actionMain; TActionForm
22861: 518 unit uPSI_CtlPanel; TAppletApplication
22862: 529 unit uPSI_MDIEdit; TEditForm
22863: 535 unit uPSI_CoolMain; {browser} TWebMainForm
22864: 538 unit uPSI_frmExportMain; TSynexportForm
22865: 585 unit uPSI_usniffer; //PortScanForm TSniffForm
22866: 600 unit uPSI_ThreadForm; TThreadSortForm
22867: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
22868: 620 unit uPSI_fpplotMain; TfplotForm1
22869: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog
22870: 677 unit uPSI_OptionsFrm; TfrmOptions
22871: 718 unit uPSI_MonForm; TMonitorForm
22872: 742 unit uPSI_SimplePortMain; TPortForm1
22873: 770 unit uPSI_ovccalc; TOvcCalculator //widget
22874: 810 unit uPSI_DbExcept; TDbEngineErrorDlg
22875: 812 unit uPSI_GL_actorUnit1; TglActorForm1 //OpenGL Robot
22876: 846 unit uPSI_synhttp_daemon; TTCPHttpDaemon, TTCPHttpThrd, TPingThread
22877: 867 unit uPSI_Debug; TfrmDebug
22878: 904 unit uPSI_U_HexView; THexForm2
22879: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOscfrmMain
22880: 959 unit uPSI_AdSelCom; TComSelectForm
22881: 1029 unit uPSI_GPSUDemo; TFDemo
22882: 1031 unit uPSI_ScreenThreeDLab; TFormLab3D
22883: 1051 unit uPSI_panUnit1; TPanForm1 //GLScene
22884: 1052 unit uPSI_DD83ul; {Arduino Tester Frm} TDD83f1
22885:
22886: ex.:with TEditForm.create(self) do begin
22887:   caption:= 'Template Form Tester';
22888:   FormStyle:= fsStayOnTop;
22889:   with editor do begin
22890:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf
22891:     SelStart:= 0;
22892:     Modified:= False;
22893:   end;
22894: end;
22895: with TWebMainForm.create(self) do begin
22896:   URLs.Text:= 'http://www.kleiner.ch';
22897:   URLsClick(self); Show;
22898: end;
22899: with TSynexportForm.create(self) do begin
22900:   Caption:= 'Synexport HTML RTF tester';
22901:   Show;
22902: end;
22903: with TThreadSortForm.create(self) do begin
22904:   showmodal; free;
22905: end;
22906: with TCustomDrawForm.create(self) do begin
22907:   width:=820; height:=820;
22908:   image1.height:= 600; //add properties
22909:   image1.picture.bitmap:= image2.picture.bitmap;

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22910:     //SelectionBackground1Click(self) CustomDraw1Click(self);
22911:     Background1.click;
22912:     bitmap1.click; Tile1.click;
22913:     Showmodal;
22914:     Free;
22915:   end;
22916:   with TfplotForm1.Create(self) do begin
22917:     BtnPlotClick(self);
22918:     Showmodal; Free;
22919:   end;
22920:   with TOvcCalculator.create(self) do begin
22921:     parent:= aForm;
22922:     //free;
22923:     setbounds(550,510,200,150);
22924:     displaystr:= 'maXcalc';
22925:   end;
22926:   with THexForm2.Create(self) do begin
22927:     ShowModal;
22928:     Free;
22929:   end;
22930:
22931: function CheckBox: string;
22932: var idHTTP: TIdHTTP;
22933: begin
22934:   result:= 'version not found';
22935:   if IsInternet then begin
22936:     idHTTP:= TIdHTTP.Create(NIL);
22937:     try
22938:       result:= idHTTP.Get(MXVERSIONFILE2);
22939:       result:= result[1]+result[2]+result[3]+result[4]+result[5];
22940:       if result = MBVER2 then begin
22941:         //output.Font.Style:= [fsbold];
22942:         //Speak(' A new Version '+vstr+' of max box is available! ');
22943:         result:= ('!!!! OK. You have latest Version: '+result+ ' available at '+MXSITE);
22944:       end; //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
22945:     finally
22946:       idHTTP.Free
22947:     end;
22948:   end;
22949: end;
22950:
22951: //Runtime Functions Edition
22952: function ApWinExecAndWait32(fileName:PChar; CommandLine:PChar; Visibility:Integer):Integer;
22953: function KillTask(ExeFileName: string): Integer;
22954: procedure KillProcess(hWindowHandle: HWnd);
22955: function FindWindowByTitle(WindowTitle: string): Hwnd;
22956: function IntToFloat(i: Integer): double;
22957: function AddThousandsSeparator(S: string; myChr: Char): string;
22958: function mciSendString(cmd: PChar; ret: PChar; len: integer; callback: integer): cardinal;
22959: procedure FormAnimation(Sender: TObject; adelay: integer);
22960: procedure LoadResourceFile2(afile:string; ms:TMemoryStream);
22961: function putBinResTo(binresname: pchar; newpath: string): boolean;
22962: procedure ExecuteHyperlink(Sender: TObject; HyperLinkClick: TJvHyperLinkClickEvent; const LinkName: string););
22963: function IsHyperLink(Canvas:TCanvas;Rect:TRect;const Text:string; MouseX,MouseY:Integer;var HyperLink:string):Bool
22964: Function GetWindowThreadProcessId( hWnd : HWND; var dwProcessId : DWORD ) : DWORD; ''
22965: Function GetWindowTask( hWnd : HWND ) : THandle;;
22966: Function LoadBitmap( hInstance : HINST; lpBitmapName : PChar ) : HBITMAP;;
22967: Function GetCommConfig(hCommDev: THandle; var lpCC: TCommConfig; var lpdwSize: DWORD): BOOL;;
22968: function WinExecAndWait32(fileName: string; Visibility: Integer): Longword;
22969:
22970:   command1:= 'play "'+songpath+'maxbox.wav"';
22971:   command2:= 'play "'+songpath+'moon.wav"';
22972:   SendMCICmd('open waveaudio shareable'); //parallels
22973:   SendMCICmd('play "G:\sonysavefeb2014\maxbox\maxbox3_back\examples\maxbox.wav"');
22974:   SendMCICmd('play "G:\sonysavefeb2014\maxbox\maxbox3_back\examples\moon.wav"');
22975:   SendMCICmd('close waveaudio');
22976:
22977: /////////////////////////////////
22978: All maXbox Tutorials Table of Content 2014
22979: ///////////////////////////////
22980: Tutorial 00 Function-Coding (Blix the Programmer)
22981: Tutorial 01 Procedural-Coding
22982: Tutorial 02 OO-Programming
22983: Tutorial 03 Modular Coding
22984: Tutorial 04 UML Use Case Coding
22985: Tutorial 05 Internet Coding
22986: Tutorial 06 Network Coding
22987: Tutorial 07 Game Graphics Coding
22988: Tutorial 08 Operating System Coding
22989: Tutorial 09 Database Coding
22990: Tutorial 10 Statistic Coding
22991: Tutorial 11 Forms Coding
22992: Tutorial 12 SQL DB Coding
22993: Tutorial 13 Crypto Coding
22994: Tutorial 14 Parallel Coding
22995: Tutorial 15 Serial RS232 Coding
22996: Tutorial 16 Event Driven Coding

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22997: Tutorial 17 Web Server Coding
22998: Tutorial 18 Arduino System Coding
22999: Tutorial 18_3 RGB LED System Coding
23000: Tutorial 19 WinCOM /Arduino Coding
23001: Tutorial 20 Regular Expressions RegEx
23002: Tutorial 21 Android Coding (coming 2013)
23003: Tutorial 22 Services Programming
23004: Tutorial 23 Real Time Systems
23005: Tutorial 24 Clean Code
23006: Tutorial 25 maXbox Configuration I+II
23007: Tutorial 26 Socket Programming with TCP
23008: Tutorial 27 XML & TreeView
23009: Tutorial 28 DLL Coding (available)
23010: Tutorial 29 UML Scripting (2014)
23011: Tutorial 30 Web of Things (2014)
23012: Tutorial 31 Closures (2014)
23013: Tutorial 32 SQL Firebird (coming 2014)
23014: Tutorial 33 Oscilloscope (coming 2015)
23015: Tutorial 34 GPS Navigation (2014)
23016: Tutorial 35 Web Box (available)
23017: Tutorial 36 Unit Testing (coming 2015)
23018: Tutorial 37 API Coding (coming 2015)
23019: Tutorial 38 3D Coding (coming 2015)
23020: Tutorial 39 GEO Map Coding (available)
23021: Tutorial 39_1 GEO Map Layers Coding (available)
23022: Tutorial 40 REST Coding (coming 2015)
23023:
23024:
23025: Doc ref Docu for all Type Class and Const in maXbox_types.pdf
23026: using Docu for this file is maxbox_functions_all.pdf
23027: PEP - Pascal Education Program Low Lib Lab ShellHell
23028:
23029:
23030: http://stackoverflow.com/tags/pascalscript/hot
23031: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
23032: http://sourceforge.net/projects/maxbox #locs:51620
23033: http://sourceforge.net/apps/mediawiki/maxbox
23034: http://www.blaisepascal.eu/
23035: https://github.com/maxkleiner/maxbox3.git
23036: http://www.heise.de/download/maxbox-1176464.html
23037: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
23038: https://www.facebook.com/pages/Programming-maXbox/166844836691703
23039: http://www.softwareschule.ch/arduino_training.pdf
23040: http://www.delphiarea.com
23041: http://www.freepascal.org/docs-html/rtl/strutils/index-5.html
23042: http://entwickler-konferenz.de/2014/speakers/max-kleiner
23043: http://www.heise.de/download/maxbox-1176464.html
23044:
23045:
23046:
23047: All maxbox Examples List
23048: https://github.com/maxkleiner/maxbox3/releases
23049: ****
23050: 000_pas_baseconvert.txt
23051: 000_pas_baseconvert.txt_encrypt
23052: 000_pas_baseconvert.txt_decrypt
23053: 001_1_pas_functest - Kopie.txt
23054: 001_1_pas_functest.txt
23055: 001_1_pas_functest2.txt
23056: 001_1_pas_functest_clx2.txt
23057: 001_1_pas_functest_clx2_2.txt
23058: 001_1_pas_functest_openarray.txt
23059: 001_pas_lottogen.txt
23060: 001_pas_lottogen_template.txt
23061: 001_pas_lottogen_txtcopy
23062: 002_pas_russianroulette.txt
23063: 002_pas_russianroulette.txtcopy
23064: 002_pas_russianroulette.txtcopy_decrypt
23065: 002_pas_russianroulette.txtcopy_encrypt
23066: 003_pas_motion.txt
23067: 003_pas_motion.txtcopy
23068: 004_pas_search.txt
23069: 004_pas_search_replace.txt
23070: 004_search_replace_allfunctionlist.txt
23071: 005_pas_oodesign.txt
23072: 005_pas_shelllink.txt
23073: 006_pas_oobatch.txt
23074: 007_pas_streamcopy.txt
23075: 008_EINMALEINS_FUNC.TXT
23076: 008_explanation.txt
23077: 008_pas_verwechselst.txt
23078: 008_pas_verwechselst_ibz_bern_func.txt
23079: 008_stack_ibz.TXT
23080: 009_pas_umrunner.txt
23081: 009_pas_umrunner_all.txt
23082: 009_pas_umrunner_componenttest.txt
23083: 009_pas_umrunner_solution.txt
23084: 009_pas_umrunner_solution_2step.txt
23085: 010_pas_oodesign_solution.txt
282_fadengraphik.txt
283_SQL_API_messagetimeout.txt
284_SysTools4.txt
285_MineForm_GR32.TXT
285_MineForm_GR32main.TXT
285_MineForm_GR32mainsolution.TXT
285_MineForm_propas.TXT
285_MineForm_propas2.TXT
285_minesweeper2.TXT
285_Patterns_process.txt
286_colormixer_jpeg_charcounter.txt
286_colormixer_jpeg_charcounter2.txt
287_eventhandling.txt
287_eventhandling2.txt
287_eventhandling2_negpower.txt
288_bitblt.txt
288_bitblt_resize.txt
289_regression.txt
289_regression2.txt
290_bestofbox.txt
290_bestofbox2.txt
290_bestofbox3.txt
291_3sort_visual_thread.txt
292_refactoring2.txt
293_bold_utils.txt
293_ib_utils.txt
293_ib_utils_timetest.txt
294_maxcalc_demo.txt
294_maxcalc_demo2.txt
295_easter_calendar.txt
295_easter_calendar2.txt
295_easter_combobox.txt
297_atomimage.txt
297_atomimage2.txt
297_atomimage3.txt
297_atomimage4.txt

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23086: 011_pas_puzzlepas_defect.txt
23087: 012_pas_umrunner_solution.txt
23088: 012_pas_umrunner_solution2.txt
23089: 013_pas_linenumber.txt
23090: 014_pas_primetest.txt
23091: 014_pas_primetest_first.txt
23092: 014_pas_primetest_sync.txt
23093: 015_pas_designbycontract.txt
23094: 015_pas_designbycontract_solution.txt
23095: 016_pas_searchrec.txt
23096: 017_chartgen.txt
23097: 018_data_simulator.txt
23098: 019_dez_to_bin.txt
23099: 019_dez_to_bin_grenzwert_ibz.txt
23100: 020_proc_feedback.txt
23101: 021_pas_symkey.txt
23102: 021_pas_symkey_solution.txt
23103: 022_pas_filestreams.txt
23104: 023_pas_find_searchrec.txt
23105: 023_pas_pathfind.txt
23106: 024_pas_TFileStream_records.txt
23107: 025_prime_direct.txt
23108: 026_pas_memorystream.txt
23109: 027_pas_shellexecute_beta.txt
23110: 027_pas_shellexecute_solution.txt
23111: 028_pas_dataset.txt
23112: 029_pas_assignfile.txt
23113: 029_pas_assignfile_dragndropexe.txt
23114: 030_palindrome_2.txt
23115: 030_palindrome_tester.txt
23116: 030_pas_recursion.txt
23117: 030_pas_recursion2.txt
23118: 031_pas_hashcode.txt
23119: 032_pas_crc_const.txt
23120: 033_pas_cipher.txt
23121: 033_pas_cipher_def.txt
23122: 033_pas_cipher_file_2_solution.txt
23123: 034_pas_soundbox.txt
23124: 035_pas_crcscript.txt
23125: 035_pas_CRCscript_modbus.txt
23126: 036_pas_includetest.txt
23127: 036_pas_includetest_basta.txt
23128: 037_pas_define_demo32.txt
23129: 038_pas_box_demonstrator.txt
23130: 039_pas_dllcall.txt
23131: 040_paspointer.txt
23132: 040_paspointer_old.txt
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23134: 041_pasplotter_plus.txt
23135: 042_pas_kgv_ggt.txt
23136: 043_pas_proceduretype.txt
23137: 044_pas_14queens_solwith14.txt
23138: 044_pas_8queens.txt
23139: 044_pas_8queens_sol2.txt
23140: 044_pas_8queens_solutions.txt
23141: 044_queens_performer.txt
23142: 044_queens_performer2.txt
23143: 044_queens_performer2tester.txt
23144: 045_pas_listhandling.txt
23145: 046_pas_records.txt
23146: 047_pas_modula10.txt
23147: 048_pas_romans.txt
23148: 049_pas_ifdemo.txt
23149: 049_pas_ifdemo_BROKER.txt
23150: 050_pas_primetest2.txt
23151: 050_pas_primetester_thieves.txt
23152: 050_program_starter.txt
23153: 050_program_starter_performance.txt
23154: 051_pas_findtext_solution.txt
23155: 052_pas_text_as_stream.txt
23156: 052_pas_text_as_stream_include.txt
23157: 053_pas_singleton.txt
23158: 054_pas_speakpassword.txt
23159: 054_pas_speakpassword2.txt
23160: 054_pas_speakpassword_searchtest.txt
23161: 055_pas_factorylist.txt
23162: 056_pas_demeter.txt
23163: 057_pas_dirfinder.txt
23164: 058_pas_filefinder.txt
23165: 058_pas_filefinder_pdf.txt
23166: 058_pas_filefinder_screview.txt
23167: 058_pas_filefinder_screview2.txt
23168: 058_pas_filefinder_screview3.txt
23169: 059_pas_timertest.txt
23170: 059_pas_timertest_2.txt
23171: 059_pas_timertest_time_solution.txt
23172: 059_timerobject_starter2.txt
23173: 059_timerobject_starter2_ibz2_async.txt
23174: 059_timerobject_starter2_uml.txt

297_maxonmotor.TXT
297_maxon_atomimage9.txt
298_bitblt_animation.txt
298_bitblt_animation2.txt
298_bitblt_animation3.txt
298_bitblt_animation4.txt
298_bitblt_animation4_screensaver.txt
298_bitblt_animation5_screensaver.txt
299_animation.txt
299_animationmotor_arduino.txt
299_animation_formprototype.txt
299_realtimeclock_arduino.txt
299_realtimeclock_arduino2.txt
300_treeview.txt
300_treeview_test.txt
300_treeview_test2.txt
300_treeview_test3.txt
301_LED_Arduino3.txt
301_led_arduino3_simple.txt
301_led_arduino3_simplecode.txt
301_log_arduino.txt
301_log_arduino2.txt
301_SQL_DBfirebird3.txt
301_SQL_DBfirebird4.txt
302_LCLActivity_java.txt
302_LED_DataLogger.txt
303_Android_LCLActivity_java.txt
303_webserver.txt
303_webserver2.txt
303_webserver_alldocs2.txt
303_webserver_alldocs2_tester.txt
303_webserver_minimal.txt
303_webserver_simple.txt
304_st_system.txt
305_indy_elizahttpserver.TXT
305_indy_elizahttpserver2.TXT
305_indy_elizahttpserver3.TXT
305_indy_elizahttpserver4file.TXT
305_webserver_arduino.txt
305_webserver_arduino2.txt
305_webserver_arduino3.txt
305_webserver_arduino3ibz.txt
305_webserver_arduino3ibz_rgb_led.txt
305_webserver_arduino3test.txt
306_SPS_http_command.txt
307_all_booleanlogic.txt
308_bitbox3.txt
308_bitbox3_exec.txt
308_boolean_animation.txt
308_boolean_animation2.txt
309_regex_power.txt
309_regex_powertester2.txt
309_regex_powertester3.txt
310_regex_decorator.TXT
312_ListView.txt
313_dmath_dll.txt
314_fundamentals4_tester.TXT
315_funcplot_dmath.TXT
316_cfileutils_cdatetime_tester.TXT
317_excel_export_tester.TXT
318_excel_export.TXT
318_excel_export2.TXT
318_excel_export3.TXT
318_excel_export3_tester.TXT
319_superfunctions_math.TXT
319_superfunctions_mathdefect.TXT
320_superfunctions.TXT
320_superfunctions2.TXT
321_SQL_Excel.txt
321_SQL_Excel2.txt
321_SQL_Excel_Export.txt
321_SQL_ExportExec.txt
321_SQL_ExportTest.txt
321_SQL_SAS_tester3.txt
321_SQL_SAS_tester3_selfcompile.txt
321_SQL_SAS_tester3_selfcompile2.txt
321_SQL_SAS_tester4.txt
321_SQL_SAS_updater.txt
322_timezones.TXT
323_datefind_fulltext_search.txt
323_datefind_fulltext_searchtester.txt
324_interfacenavi.TXT
325_ampelsteuerung.txt
325_analogclock.txt
326_world_analogclock.txt
326_world_analogclock2.txt
327_atomimage_clock.txt
328_starfield.txt
329_starfield2.txt

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23175: 059_timerobject_starter2_uml_main.txt          330_myclock.txt
23176: 059_timerobject_starter4_ibz.txt            330_myclock2.txt
23177: 060_pas_datefind.txt                      331_SQL_DBfirebird4.txt
23178: 060_pas_datefind_exceptions2.txt          332_jprofiler.txt
23179: 060_pas_datefind_exceptions_CHECKTEST.txt 332_jprofiler_form.txt
23180: 060_pas_datefind_fulltext.txt             332_jprofiler_form2.txt
23181: 060_pas_datefind_plus.txt                 333_querybyexample.txt
23182: 060_pas_datefind_plus_mydate.txt          333_querybyexample2.txt
23183: 061_pas_randomwalk.txt                   334_jvutils_u.txt
23184: 061_pas_randomwalk_plus.txt              335_atomimage5.txt
23185: 062_paskorrelation.txt                  335_atomimage6.txt
23186: 063_pas_calculateform.txt               335_atomimage7.txt
23187: 063_pas_calculateform_2list.txt          336_digiclock.txt
23188: 064_pas_timetest.txt                    336_digiclock2.txt
23189: 065_pas_bitcounter.txt                  336_digiclock2test.txt
23190: 066_pas_eliza.txt                      336_digiclock3.txt
23191: 066_pas_eliza_include_sol.txt           337_4games.txt
23192: 067_pas_morse.txt                     337_4games_inone.txt
23193: 068_pas_piezo_sound.txt                338_compress.txt
23194: 069_LED_Matrix_R1_3_6_NV_PSchaer.TXT   338_compress2.txt
23195: 069_my_LEDBOX.TXT                     339_ntfs.txt
23196: 069_pas_ledmatrix.txt                 340_docudtype.txt
23197: 069_pas_LEDMATRIX_Alphabet.txt        340_logsimulation.txt
23198: 069_pas_LEDMATRIX_Alphabet_run.txt    340_logsimulation2.txt
23199: 069_pas_LEDMATRIX_Alphabet_tester.txt 340_soundControltype.txt
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23201: 069_pas_ledmatrix_fixedit.txt         341_blix_clock2.txt
23202: 069_pas_LEDMATRIX_soundbox.txt        341_blix_clock_tester.txt
23203: 069_pas_LEDMATRIX_soundbox2.txt       342_set_enumerator.txt
23204: 069_Richter_MATRIX.TXT                343_dice2.txt
23205: 070_pas_functionplot.txt              344_pe_header.txt
23206: 070_pas_functionplotter2.txt          344_pe_header2.txt
23207: 070_pas_functionplotter2_mx4.txt      345_velocity.txt
23208: 070_pas_functionplotter2_tester.txt   346_conversions.txt
23209: 070_pas_functionplotter3.txt          347_pictureview.txt
23210: 070_pas_functionplotter4.txt          348_duallistview.txt
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23212: 070_pas_functionplotter_elliptic.txt  350_parserform.txt
23213: 070_pas_function_helmholtz.txt       351_chartform.txt
23214: 070_pas_textcheck_experimental.txt    351_chartform2.txt
23215: 071_pas_graphics.txt                 351_chartform3.txt
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23220: 072_pas_fractals_2.txt               355_life_of_PI.txt
23221: 072_pas_fractals_blackhole.txt        356_3D_printer.txt
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23226: 072_pas_fractals_performance_mx4.txt  360_JvPaintFX.TXT
23227: 073_pas_forms.txt                   361_heartbeat_wave.TXT
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23230: 074_pas_chartgenerator_solution_back.txt 363_compress_services2.txt
23231: 074_pas_charts.txt                  364_pdf_services.txt
23232: 075_bitmap_Artwork2.txt             365_memorystream.txt
23233: 075_pas_bitmappuzzle.txt           365_memorystream2.txt
23234: 075_pas_bitmappuzzle24.prod.txt    365_memorystream_test.txt
23235: 075_pas_bitmappuzzle2_prod.txt     365_U_HexView.txt
23236: 075_pas_bitmappuzzle3.txt          366_mp3player.txt
23237: 075_pas_bitmapsolve.txt            366_mp3player2.txt
23238: 075_pas_bitmap_Artwork.txt         366_mp3player2_themestest.txt
23239: 075_pas_puzzlepas_solution.txt    367_silvi_player_widgets.txt
23240: 076_pas_3dcube.txt                 367_silvi_player_widgets2.txt
23241: 076_pas_circle.txt                 367_widgets.txt
23242: 077_pas_mmshow.txt                368_configuration_demo.txt
23243: 078_pas_pi.txt                   369_macro_demo.txt
23244: 079_pas_3dcube_animation.txt     370_callback2grid.TXT
23245: 079_pas_3dcube_animation4.txt    370_richedit.txt
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23248: 080_pas_hanoi2.txt               370_synedit2.txt
23249: 080_pas_hanoi2_file.txt          370_synedit2_mxtester.txt
23250: 080_pas_hanoi2_sol.txt          370_synedit2_mxtester2.txt
23251: 080_pas_hanoi2_tester.txt        371_maxbook_v4tester.txt
23252: 080_pas_hanoi2_tester_fast.txt   372_stackkibz2_memoryalloc.TXT
23253: 080_pas_hanoi3.txt               372_synedit_export.txt
23254: 081_pas_chartist2.txt            373_batman.txt
23255: 082_pas.biorythmus.txt          373_fractals_tvout.txt
23256: 082_pas.biorythmus_solution.txt  374_realtime_random.txt
23257: 082_pas.biorythmus_solution_3.txt 374_realtime_random2.txt
23258: 082_pas.biorythmus_test.txt     374_realtime_randomtest.txt
23259: 083_pas_GITARRE.txt            374_realtime_randomtest2.txt
23260: 083_pas_soundbox_tones.txt      375_G9_musicbox.txt
23261: 084_pas_waves.txt              376_collections_list.txt
23262: 085_mxsinus_logo.txt           377_simpleXML.txt
23263: 085_sinus_plot_waves.txt       377_smartXML.txt

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23264: 086_pas_graph_arrow_heart.txt
23265: 087_bitmap_loader.txt
23266: 087_pas_bitmap_solution.txt
23267: 087_pas_bitmap_solution2.txt
23268: 087_pas_bitmap_subimage.txt
23269: 087_pas_bitmap_test.txt
23270: 088_pas_soundbox2_mp3.txt
23271: 088_pas_soundbox_mp3.txt
23272: 088_pas_sphere_2.txt
23273: 089_pas_gradient.txt
23274: 089_pas_maxland2.txt
23275: 090_pas_sudoku4.txt
23276: 090_pas_sudoku4_2.txt
23277: 091_pas_cube4.txt
23278: 092_pas_statistics4.txt
23279: 093_variance.txt
23280: 093_variance_debug.txt
23281: 094_pas_daysold.txt
23282: 094_pas_stat_date.txt
23283: 095_pas_ki_simulation.txt
23284: 096_pas_geisen_problem.txt
23285: 096_pas_montyhall_problem.txt
23286: 097_lotto_proofofconcept.txt
23287: 097_pas_lottocombinations_beat_plus.txt
23288: 097_pas_lottocombinations_beat_plus2.txt
23289: 097_pas_lottocombinations_universal.txt
23290: 097_pas_lottosimulation.txt
23291: 098_pas_chartgenerator_plus.txt
23292: 099_pas_3D_show.txt
23293: 200_big_numbers.txt
23294: 200_big_numbers2.txt
23295: 201_streamload_xml.txt
23296: 202_systemcheck.txt
23297: 203_webservice_simple_intftester.txt
23298: 204_webservice_simple.txt
23299: 205_future_value_service.txt
23300: 206_DTD_string_functions.txt
23301: 207_ibz2_async_process.txt
23302: 208_crc32_hash.txt
23303: 209_cryptohash.txt
23304: 210_public_private.txt
23305: 210_public_private_cryptosystem.txt
23306: 211_wipe_pattern.txt
23307: 211_wipe_pattern2.txt
23308: 211_wipe_pattern_solution.txt
23309: 212_pas_statisticmodule4.TXT
23310: 212_pas_statisticmodule4.txt
23311: 212_statisticmodule4.txt
23312: 213_pas_BBP_Algo.txt
23313: 214_mxdocudemo.txt
23314: 214_mxdocudemo2.txt
23315: 214_mxdocudemo3.txt
23316: 215_hints_test.TXT
23317: 216_warnings_test.TXT
23318: 217_pas_heartbeat.txt
23319: 218_biorhythmus_studio.txt
23320: 219_cipherbox.txt
23321: 219_crypt_source_comtest_solution.TXT
23322: 220_cipherbox_form.txt
23323: 220_cipherbox_form2.txt
23324: 221_bcd_explain.txt
23325: 222_memoform.txt
23326: 223_directorybox.txt
23327: 224_dialogs.txt
23328: 225_sprite_animation.txt
23329: 226_ASCII_Grid2.TXT
23330: 227_animation.txt
23331: 227_animation2.txt
23332: 228_android_calendar.txt
23333: 229_android_game.txt
23334: 229_android_game_tester.txt
23335: 230_DataProvider.txt
23336: 230_DataSetProvider.txt
23337: 230_DataSetXMLBackupScholz.txt
23338: 231_DBGrid_access.txt
23339: 231_DBGrid_XMLaccess.txt
23340: 231_DBGrid_XMLaccess2.txt
23341: 231_DBGrid_XMLaccess_locatetester.txt
23342: 231_DBGrid_XML_CDS_local.txt
23343: 232_outline.txt
23344: 232_outline_2.txt
23345: 233_modular_form.txt
23346: 234_debugoutform.txt
23347: 235_fastform.TXT
23348: 236_componentpower.txt
23349: 236_componentpower_back.txt
23350: 237_pas_4forms.txt
23351: 238_lottogen_form.txt
23352: 239_pas_sierpinski.txt

377_smartXMLWorkshop.txt
377_smartXMLWorkshop2.txt
378_queryperformance3.txt
378_REST1.txt
378_REST2.txt
379_timefunc.txt
379_timefuncTesterfilemon.txt
380_coolfunc.txt
380_coolfunc2.txt
380_coolfunc_tester.txt
381_bitcoin_simulation.txt
382_GRMATH.TXT
382_GRMATH_PI_Proof.TXT
382_GRMATH_Riemann.TXT
383_MDAC_DCOM.txt
384_TeamViewerID.TXT
386_InternetRadio.TXT
387_fulltextfinder.txt
387_fulltextfinder_cleancode.txt
387_fulltextfinder_fast.txt
387_fulltext_getscripttest.txt
388_TCPServerSock.TXT
388_TCPServerSock2.TXT
388_TCPServerSockClient.TXT
389_TAR_Archive.TXT
389_TAR_Archive_test.TXT
389_TAR_Archive_test2.TXT
390_Callback3.TXT
390_Callback3Rec.TXT
390_CallbackClean.TXT
390_StringlistHTML.TXT
391_ToDo_List.TXT
392_Barcode.TXT
392_Barcode2.TXT
392_Barcode23.TXT
392_Barcode2scholz.TXT
392_Barcode3scholz.TXT
393_QRCode.TXT
393_QRCode2.TXT
393_QRCode2Direct.TXT
393_QRCode2DirectIndy.TXT
393_QRCode2Direct_detlef.TXT
393_QRCode3.TXT
394_networkgraph.TXT
394_networkgraph_depwalkutilstest.TXT
394_networkgraph_depwalkutilstest2.TXT
395_USBController.TXT
396_Sort.TXT
397_Hotlog.TXT
397_Hotlog2.TXT
398_ustrings.txt
399_form_templates.txt
400_fploottchart.TXT
400_fploottchart2.TXT
400_fploottchart2teetest.TXT
400_QRCodeMarket.TXT
401_tfilerun.txt
402_richedit2.txt
403_outlookspy.txt
404_simplebrowser.txt
405_datefinder_today.txt
406_portscan.txt
407_indydemo.txt
408_testroboter.txt
409_excel_control.txt
410_keyboardevent.txt
411_json_test.txt
412_Zeosutils.txt
413_listview2.txt
414_avrdude_flash.txt
415_avrdude_writehex.txt
416_sonar_startscriptEKON.TXT
416_sonar_startscriptEKON_reporting.TXT
417_GRMATH_PI_Proof2.TXT
418_functional_paradigm.txt
419_archimedes_spiral.txt
419_archimedes_spiral2.txt
420_archimedes_arduino.txt
420_Lissajous.txt
421_PI_Power.TXT
421_PI_Power2.TXT
422_world_bitboxx.txt
423_game_of_life.TXT
423_game_of_life2.TXT
423_game_of_life3.TXT
423_game_of_life3_test.TXT
423_game_of_life4.TXT
423_game_of_life4_kryptum.TXT
424_opengl_tester.txt

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23353: 239_pas_sierpinski2.txt          425_reversi_game.txt
23354: 240_unitGlobal_tester.txt       426_IBUtils.TXT
23355: 241_db3_sql_tutorial.txt        427_IBDatabase.TXT
23356: 241_db3_sql_tutorial2.txt       428_SortGrid.TXT
23357: 241_db3_sql_tutorial2fix.txt    429_fileclass.txt
23358: 241_db3_sql_tutorial3.txt       430_fileoperation.txt
23359: 241_db3_sql_tutorial3connect.txt 430_fileoperation_tester.txt
23360: 241_db3_sql_tutorial3_fpstest.txt 431_performance_index.txt
23361: 241_RTL_SET2.txt               432_shortstring_routines.txt
23362: 241_RTL_SET2_tester.txt         433_video_avicap.txt
23363: 242_Component_Control.txt      433_video_avicap2.txt
23364: 243_tutorial_loader.txt        434_GSM_module.TXT
23365: 244_script_loader_loop.txt     435_httpcommon.txt
23366: 245_formapp2.txt              436_GraphicsSplitter.txt
23367: 245_formapp2_tester.txt        436_GraphicSplitter_form.txt
23368: 245_formapp2_testerX.txt      436_GraphicSplitter_form2.txt
23369: 246_httpapp.txt              436_teetest_screen.TXT
23370: 247_datecalendar.txt          436_teetest_screen2.TXT
23371: 248_ASCII_Grid2_sorted.TXT    437_WinAPItop.txt
23372: 249_picture_grid.TXT          437_WinAPItop_Firebirdtester.txt
23373: 250_tipsandtricks2.txt        438_OvInternational.txt
23374: 250_tipsandtricks3.txt        439_AsyncFreeDemo.txt
23375: 250_tipsandtricks3api.txt     439_AsyncFreeDemoForm.txt
23376: 250_tipsandtricks3_admin_elevation.txt 440_DLL_Tutor.txt
23377: 250_tipsandtricks3_tester.txt 440_DLL_Tutor2.txt
23378: 250_tipsandtricks4_tester.txt 440_XML_Tutor.txt
23379: 250_tipsandtricks4_tester2.txt 440_XML_Tutor2.txt
23380: 251_compare_noise_gauss.txt   441_make_app.txt
23381: 251_whitenoise.txt           442_arduino_rgb_led.txt
23382: 251_whitenoise2.txt          443_webserver_arduino_rgb_light.txt
23383: 252_hilbert_turtle.txt        443_webserver_arduino_rgb_light4.txt
23384: 252_pas_hilbert.txt          444_webserver_arduino3ibz_rgb_led_basta.txt
23385: 253_opearatingsystem3.txt     445_datagrid.txt
23386: 254_dynarrays.txt            445_datagrid2.txt
23387: 255_einstein.txt             445_datagrid_android_arduino.txt
23388: 256_findconsts_of_EXE.txt    446_arduino_timer.txt
23389: 256_findfunctions2_of_EXE.txt 447_patternFrm_mx3.txt
23390: 256_findfunctions2_of_EXEaverp.txt 448_Synapse.txt
23391: 256_findfunctions2_of_EXEspec.txt 448_Synapse2.txt
23392: 256_findfunctions3.txt        449_dweb_start_tester.txt
23393: 256_findfunctions_of_EXE.txt  450_Synapse_HTTPS.txt
23394: 257_AES_Cipher.txt           450_Synapse_Mime.txt
23395: 258_AES_cryptobox.txt        450_Synapse_ScanPing.txt
23396: 258_AES_cryptobox2.txt       451_ocx_player.txt
23397: 258_AES_cryptobox2_passdlg.txt 451_OCC_WinPlayer2.txt
23398: 259_AES_crypt_directory.txt  452_dbtreeview.txt
23399: 260_sendmessage_2.TXT       452_dbtreeview2.txt
23400: 260_sendmessage_beta.TXT    453_stdfuncs.txt
23401: 261_probability.txt          454_fileStream.txt
23402: 262_mxoutputdemo4.txt       455_functionfun.txt
23403: 263_async_sound.txt          455_functionfun2.txt
23404: 264_vclutils.txt            455_functionfun2_test.txt
23405: 264_VCL_utils2.txt          457_ressource_grid.txt
23406: 265_timer_API.txt           458_atomimageX.txt
23407: 266_serial_interface.txt    459_cindyfunc.txt
23408: 266_serial_interface2.txt   459_cindyfunc2.txt
23409: 266_serial_interface3.txt   460_TopTenFunctions.txt
23410: 267_ackermann_rec.txt       461_sgiform_calwin.txt
23411: 267_ackermann_variants.txt  462_caesarcipher.txt
23412: 268_DBGrid_tree.txt          463_global_exception.txt
23413: 269_record_grid.TXT         464_function_procedure.txt
23414: 270_Jedi_FunctionPower.txt  464_function_procedure2.txt
23415: 270_Jedi_FunctionPowertester.txt 464_function_procedure3.txt
23416: 271_closures_study_workingset2.txt 465_U_HexView.txt
23417: 271_closures_study_workingset2.txt 466_moon.txt
23418: 272_pas_function_show.txt   466_moon_inputquery.txt
23419: 273_pas_function_show2.txt  4671_cardmagic.txt
23420: 274_library_functions.txt   467_helmholz_graphic.txt
23421: 275_turtle_language.txt     468_URLMon.txt
23422: 275_turtle_language_save.txt 468_URLMon2.txt
23423: 276_save_algo.txt           469_formarrow.txt
23424: 276_save_algo2.txt          469_formarrow_datepicker.txt
23425: 277_functionsfor39.txt     469_formarrow_datepicker_ibz_result.txt
23426: 278_DB_Dialogs.TXT          469_ibzresult.txt
23427: 279_hexer2.TXT             470_DFFUtils_compiled.txt
23428: 279_hexer2macro.TXT        470_DFFUtils_ScrollingLED.txt
23429: 279_hexer2macroback.TXT    470_Oscilloscope.txt
23430: 280_UML_process.txt         470_Oscilloscope_code.txt
23431: 280_UML_process_knabe2.txt  471_cardmagic.txt
23432: 280_UML_process_knabe3.txt  471_cardmagic2.txt
23433: 280_UML_process_TIM_Botzenhardt.txt 472_allcards.TXT
23434: 280_UML_TIM_Seitz.txt      473_comboset.txt
23435: 281_picturepuzzle.txt       474_wakeonlan.txt
23436: 281_picturepuzzle2.txt      474_wakeonlan2.txt
23437: 281_picturepuzzle3.txt      476_getscripttest.txt
23438: 281_picturepuzzle4.txt      477_filenameonly.txt
23439: 479_inputquery.txt          480_regex_pathfinder.txt
23440: 480_regex_pathfinder2.txt   481_processList.txt
23441: 482_processPipe.txt         482_processPipeGCC.txt

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23442: 483_PathFuncTest_mx.txt          484_filefinder3.txt
23443: 485_InnoFunc.txt              486_VideoGrabber.txt
23444: 487_asyncKeyState.txt         488_asyncTerminal.txt
23445: 489_simpleComport.txt        490_webCamproc.txt
23446: 491_analogmeter.txt          492_snowflake2.txt
23447: 493_gadgets.txt             495_fourierfreq.txt
23448: 496_InstallX.txt            497_LED.txt
23449: 498_UnitTesting.txt          499_mulu42.txt
23450: 500_diceoflifes.txt          501_firebird_datasnap_tests.txt
23451: 502_findalldocs.txt         503_led_switch.txt
23452: 504_fileclass.txt           505_debug.txt
23453: 506_colormatrix.txt         507_derutils.txt
23454: 508_simplecomportmorse.txt   509_GEOMap2.txt
23455: 509_509_GEOMap2_SReverse.TXT 510_510_bonn_gpsdata_mx4.pas
23456: 511_LEDLabel.txt            512_LED_moon.txt
23457: 513_StreamIntegration.txt    514_LED_moon2.txt
23458: 515_ledclock3.txt           516_mapview.txt
23459: 517_animation7.txt          518_sensors_meter.txt
23460: 519_powtills.txt            520_run_bytocode.txt
23461: 521_iputils2.txt            522_getgeocode.txt
23462: 523_NMEA.txt               524_NAV_Utils.txt
23463: 525_GEO84s.txt              526_Compass_meter.txt
23464: 527_GPSDemo.txt             528_linescount.txt
23465: 529_profilertest.txt        530_3DLab.txt
23466: 531_profilertest.txt        532_mcicommmand.txt
23467: 533_syncasync_demo.txt      534_arduino_cockpit.TXT
23468: 535_Battleship3.pas         536_ressource_grid2.txt
23469: 537_iniplus.TXT             538_shellbatch.txt
23470: 539_timeturtle123.txt        540_NeuralNetwork.pas
23471: 541_webserver_arduino_motorturtle.txt 542_arduino_sound.txt
23472: 543_MATH_TurboP.PAS          544_UTIL01.PAS
23473: 545_strips.TXT              546_fourier3.pas
23474: 547_regexmaster.TXT          548_STExpressions.TXT
23475: 549_3D_Panorama.txt          550_Expressions.TXT - 550_ADO_OLEDB.txt
23476: 551_ArduinoTester.txt        552_WaitExec32
23477:
23478:
23479: Web Script Examples:
23480:
23481: http://www.softwareschule.ch/examples/performer.txt';
23482: http://www.softwareschule.ch/examples/turtle.txt';
23483: http://www.softwareschule.ch/examples/SQLExport.txt';
23484: http://www.softwareschule.ch/examples/Richter.txt';
23485: http://www.softwareschule.ch/examples/checker.txt';
23486: http://www.softwareschule.ch/examples/demodescript.txt';
23487: http://www.softwareschule.ch/examples/ibzresult.txt';
23488: http://www.softwareschule.ch/examples/performindex.txt
23489: http://www.softwareschule.ch/examples/processlist.txt
23490: http://www.softwareschule.ch/examples/game.txt
23491: http://www.softwareschule.ch/examples/GEOGPS.txt
23492: http://www.softwareschule.ch/examples/turtle2.txt
23493: http://www.softwareschule.ch/examples/asyncterminal.txt
23494:
23495:
23496:
23497: Delphi Basics Run Time Library listing
23498: ****
23499: A
23500: Compiler Directive $A Determines whether data is aligned or packed
23501: Compiler Directive $Align Determines whether data is aligned or packed
23502: Compiler Directive $AppType Determines the application type : GUI or Console
23503: Procedure SysUtils Abort Aborts the current processing with a silent exception
23504: Function System Abs Gives the absolute value of a number (-ve sign is removed)
23505: Directive Abstract Defines a class method only implemented in subclasses
23506: Variable System AbstractErrorProc Defines a proc called when an abstract method is called
23507: Function System Addr Gives the address of a variable, function or procedure
23508: Keyword And Boolean and or bitwise and of two arguments
23509: Type System AnsiChar A character type guaranteed to be 8 bits in size
23510: Function SysUtils AnsiCompareStr Compare two strings for equality
23511: Function SysUtils AnsiCompareText Compare two strings for equality, ignoring case
23512: Function StrUtils AnsiContainsStr Returns true if a string contains a substring
23513: Function StrUtils AnsiEndsStr Returns true if a string ends with a substring
23514: Function StrUtils AnsiIndexStr Compares a string with a list of strings - returns match index
23515: Function StrUtils AnsiLeftStr Extracts characters from the left of a string
23516: Function SysUtils AnsiLowerCase Change upper case characters in a string to lower case
23517: Function StrUtils AnsiMatchStr Returns true if a string exactly matches one of a list of strings
23518: Function StrUtils AnsiMidStr Returns a substring from the middle characters of a string
23519: Function StrUtils AnsiPos Find the position of one string in another
23520: Function StrUtils AnsiReplaceStr Replaces a part of one string with another
23521: Function StrUtils AnsiReverseString Reverses the sequence of letters in a string
23522: Function StrUtils AnsiRightStr Extracts characters from the right of a string
23523: Function StrUtils AnsiStartsStr Returns true if a string starts with a substring
23524: Type System AnsiString A data type that holds a string of AnsiChars
23525: Function SysUtils AnsiUpperCase Change lower case characters in a string to upper case
23526: Procedure System Append Open a text file to allow appending of text to the end
23527: Procedure SysUtils AppendStr Concatenate one string onto the end of another
23528: Function Math ArcCos The Arc Cosine of a number, returned in radians
23529: Function Math ArcSin The Arc Sine of a number, returned in radians
23530: Function System ArcTan The Arc Tangent of a number, returned in radians

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23531: Keyword Array A data type holding indexable collections of data
23532: Keyword As Used for casting object references
23533: Procedure System Assign Assigns a file handle to a binary or text file
23534: Function System Assigned Returns true if a reference is not nil
23535: Procedure System AssignFile Assigns a file handle to a binary or text file
23536: Procedure Printers AssignPrn Treats the printer as a text file - an easy way of printing text
23537:
23538: B
23539: Compiler Directive $B Whether to short cut and and or operations
23540: Compiler Directive $BoolEval Whether to short cut and and or operations
23541: Procedure SysUtils Beep Make a beep sound
23542: Keyword Begin Keyword that starts a statement block
23543: Function System BeginThread Begins a separate thread of code execution
23544: Procedure System BlockRead Reads a block of data records from an untyped binary file
23545: Procedure System BlockWrite Writes a block of data records to an untyped binary file
23546: Type System Boolean Allows just True and False values
23547: Function Classes Bounds Create a TRect value from top left and size values
23548: Procedure System Break Forces a jump out of a single loop
23549: Type System Byte An integer type supporting values 0 to 255
23550:
23551: C
23552: Type System Cardinal The basic unsigned integer type
23553: Keyword Case A mechanism for acting upon different values of an Ordinal
23554: Function StdConv CelsiusToFahrenheit Convert a celsius temperature into fahrenheit
23555: Function SysUtils ChangeFileExt Change the extension part of a file name
23556: Type System Char Variable type holding a single character
23557: Procedure System ChDir Change the working drive plus path for a specified drive
23558: Function System Chr Convert an integer into a character
23559: Keyword Class Starts the declaration of a type of object class
23560: Procedure System Close Closes an open file
23561: Procedure System CloseFile Closes an open file
23562: Variable System CmdLine Holds the execution text used to start the current program
23563: Type System Comp A 64 bit signed integer
23564: Function SysUtils CompareStr Compare two strings to see which is greater than the other
23565: Function SysUtils CompareText Compare two strings for equality, ignoring case
23566: Function Math CompareValue Compare numeric values with a tolerance
23567: Function System Concat Concatenates one or more strings into one string
23568: Keyword Const Starts the definition of fixed data values
23569: Keyword Constructor Defines the method used to create an object from a class
23570: Procedure System Continue Forces a jump to the next iteration of a loop
23571: Function ConvUtils Convert Convert one measurement value to another
23572: Function System Copy Create a copy of part of a string or an array
23573: Function System Cos The Cosine of a number
23574: Function SysUtils CreateDir Create a directory
23575: Type System Currency A floating point type with 4 decimals used for financial values
23576: Variable SysUtils CurrencyDecimals Defines decimal digit count in the Format function
23577: Variable SysUtils CurrencyFormat Defines currency string placement in curr display functions
23578: Variable SysUtils CurrencyString The currency string used in currency display functions
23579: Function SysUtils CurrToStr Convert a currency value to a string
23580: Function SysUtils CurrToStrF Convert a currency value to a string with formatting
23581:
23582: D
23583: Compiler Directive $D Determines whether application debug information is built
23584: Compiler Directive $DebugInfo Determines whether application debug information is built
23585: Compiler Directive $Define Defines a compiler directive symbol - as used by IfDef
23586: Compiler Directive $DefinitionInfo Determines whether application symbol information is built
23587: Function SysUtils Date Gives the current date
23588: Variable SysUtils DateSeparator The character used to separate display date fields
23589: Function SysUtils DateTimeToFileDate Convert a TDateTime value to a File date/time format
23590: Function SysUtils DateTimeToStr Converts TDateTime date and time values to a string
23591: Procedure SysUtils DateTimeToString Rich formatting of a TDateTime variable into a string
23592: Function SysUtils DateToStr Converts a TDateTime date value to a string
23593: Function DateUtils DayOfTheMonth Gives day of month index for a TDateTime value (ISO 8601)
23594: Function DateUtils DayOfTheWeek Gives day of week index for a TDateTime value (ISO 8601)
23595: Function DateUtils DayOfTheYear Gives the day of the year for a TDateTime value (ISO 8601)
23596: Function SysUtils DayOfWeek Gives day of week index for a TDateTime value
23597: Function DateUtils DaysBetween Gives the whole number of days between 2 dates
23598: Function DateUtils DaysInAMonth Gives the number of days in a month
23599: Function DateUtils DaysInAYear Gives the number of days in a year
23600: Function DateUtils DaySpan Gives the fractional number of days between 2 dates
23601: Procedure System Dec Decrement an ordinal variable
23602: Variable SysUtils DecimalSeparator The character used to display the decimal point
23603: Procedure SysUtils DecodeDate Extracts the year, month, day values from a TDateTime var.
23604: Procedure DateUtils DecodeDateTime Breaks a TDateTime variable into its date/time parts
23605: Procedure SysUtils DecodeTime Break a TDateTime value into individual time values
23606: Directive Default Defines default processing for a property
23607: Function Math DegToRad Convert a degrees value to radians
23608: Procedure System Delete Delete a section of characters from a string
23609: Function SysUtils DeleteFile Delete a file specified by its file name
23610: Keyword Destructor Defines the method used to destroy an object
23611: Function SysUtils DirectoryExists Returns true if the given directory exists
23612: Function SysUtils DiskFree Gives the number of free bytes on a specified drive
23613: Function SysUtils DiskSize Gives the size in bytes of a specified drive
23614: Procedure System Dispose Dispose of storage used by a pointer type variable
23615: Keyword Div Performs integer division, discarding the remainder
23616: Keyword Do Defines the start of some controlled action
23617: Type System Double A floating point type supporting about 15 digits of precision
23618: Keyword DownTo Prefixes an decremental for loop target value
23619: Function StrUtils DupeString Creates a string containing copies of a substring

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23620: Directive **Dynamic** Allows a **class** method **to** be overriden in derived classes
 23621:
 23622: E
 23623: Compiler Directive **\$Else** Starts the alternate section **of** an **IfDef** **or** **IfNDef**
 23624: Compiler Directive **\$EndIf** Terminates conditional code compilation
 23625: Compiler Directive **\$ExtendedSyntax** Controls some **Pascal** extension handling
 23626: Keyword **Else** Starts false section **of if, case and try** statements
 23627: Function SysUtils EncodeDate Build a **TDateTime** value from year, month **and** day values
 23628: Function DateUtils EncodeDateTime Build a **TDateTime** value from day **and** time values
 23629: Function SysUtils EncodeTime Build a **TDateTime** value from hour, min, sec **and** msec values
 23630: Keyword **End** Keyword that terminates statement blocks
 23631: Function DateUtils EndOfDay Generate a **TDateTime** value **set to** the very **end of** a day
 23632: Function DateUtils EndOfMonth Generate a **TDateTime** value **set to** the very **end of** a month
 23633: Procedure System EndThread Terminates a thread **with** an exit code
 23634: Function System Eof Returns true **if** a **file** opened **with** Reset **is** at the **end**
 23635: Function System Eoln Returns true **if** the current text **file is** pointing at a line **end**
 23636: Procedure System Erase Erase a **file**
 23637: Variable System ErrorAddr Sets the error address when an application terminates
 23638: Keyword **Except** Starts the error trapping clause **of** a **Try** statement
 23639: Procedure System Exclude Exclude a value **in** a **set** variable
 23640: Procedure System Exit Exit abruptly from a **function or procedure**
 23641: Variable System ErrorCode Sets the return code when an application terminates
 23642: Function System Exp Gives the exponent **of** a number
 23643: Directive System **Export** Makes a **function or procedure** in a DLL externally available
 23644: Type System Extended The floating point **type** with the highest capacity **and** precision
 23645: Function SysUtils ExtractFileDir Extracts the dir part **of** a full **file** name
 23646: Function SysUtils ExtractFileDrive Extracts the drive part **of** a full **file** name
 23647: Function SysUtils ExtractFileExt Extracts the extension part **of** a full **file** name
 23648: Function SysUtils ExtractFileName Extracts the name part **of** a full **file** name
 23649: Function SysUtils ExtractFilePath Extracts the path part **of** a full **file** name
 23650:
 23651: F
 23652: Function StdConv FahrenheitToCelsius Convert a fahrenheit temperature into celsius
 23653: Keyword **File** Defines a typed **or** untyped **file**
 23654: Function SysUtils FileAge Get the last modified date/time **of** a **file** without opening it
 23655: Function SysUtils FileDateToDateTime Converts a **file** date/time format **to** a **TDateTime** value
 23656: Function SysUtils FileExists Returns true **if** the given **file** exists
 23657: Function SysUtils FileGetAttr Gets the attributes **of** a **file**
 23658: Variable System FileMode Defines how Reset opens a binary **file**
 23659: Function System FilePos Gives the **file** position **in** a binary **or** text **file**
 23660: Function SysUtils FileSearch Search **for** a **file** **in** one **or** more directories
 23661: Function SysUtils FileSetAttr Sets the attributes **of** a **file**
 23662: Function SysUtils FileSetDate Set the last modified date **and** time **of** a **file**
 23663: Function System FileSize Gives the size **in** records **of** an open **file**
 23664: Procedure System FillChar Fills **out** a section **of** storage **with** a fill character **or** byte value
 23665: Keyword **Finally** Starts the unconditional code section **of** a **Try** statement
 23666: Function SysUtils FindClose Closes a successful FindFirst **file** search
 23667: Function SysUtils FindCmdLineSwitch Determine whether a certain parameter switch was passed
 23668: Function SysUtils FindFirst Finds all files matching a **file** mask **and** attributes
 23669: Function SysUtils FindNext Find the next **file** after a successful FindFirst
 23670: Function SysUtils FloatToStr Convert a floating point value **to** a **string**
 23671: Function SysUtils FloatToStrF Convert a floating point value **to** a **string** **with** formatting
 23672: Procedure System Flush Flushes buffered text **file** data **to** the **file**
 23673: Keyword **For** Starts a loop that executes a finite number **of** times
 23674: Function SysUtils ForceDirectories Create a new path **of** directories
 23675: Function SysUtils Format Rich formatting **of** numbers **and** text **into** a **string**
 23676: Function SysUtils FormatCurr Rich formatting **of** a currency value **into** a **string**
 23677: Function SysUtils FormatDateTime Rich formatting **of** a **TDateTime** variable **into** a **string**
 23678: Function SysUtils FormatFloat Rich formatting **of** a floating point number **into** a **string**
 23679: Function System Frac The fractional part **of** a floating point number
 23680: Procedure SysUtils FreeAndNil Free memory **for** an **object** **and** set **it to nil**
 23681: Procedure System FreeMem Free memory storage used by a variable
 23682: Keyword System **Function** Defines a subroutine that returns a value
 23683:
 23684: G
 23685: Function SysUtils GetCurrentDir Get the current directory (drive plus directory)
 23686: Procedure System GetDir Get the **default** directory (drive plus path) **for** a specified drive
 23687: Function System GetLastError Gives the error code **of** the last failing Windows API call
 23688: Procedure SysUtils GetLocaleFormatSettings Gets locale values **for** thread-safe functions
 23689: Function System GetMem Get a specified number **of** storage bytes
 23690: Keyword Goto Forces a jump **to** a **label**, regardless **of** nesting
 23691:
 23692: H
 23693: Compiler Directive **\$H** Treat **string** types **as** **AnsiString** **or** **ShortString**
 23694: Compiler Directive **\$Hints** Determines whether Delphi shows compilation hints
 23695: Procedure System Halt Terminates the **program** **with** an optional dialog
 23696: Function System Hi Returns the hi-order byte **of** a (2 byte) Integer
 23697: Function System High Returns the highest value **of** a **type** **or** variable
 23698:
 23699: I
 23700: Compiler Directive **\$I** Allows code **in** an include **file** **to** be incorporated into a **Unit**
 23701: Compiler Directive **\$IfDef** Executes code **if** a conditional symbol has been defined
 23702: Compiler Directive **\$IfNDef** Executes code **if** a conditional symbol has **not** been defined
 23703: Compiler Directive **\$IfOpt** Tests **for** the state **of** a Compiler directive
 23704: Compiler Directive **\$Include** Allows code **in** an include **file** **to** be incorporated into a **Unit**
 23705: Compiler Directive **\$IOChecks** When **on**, an IO operation error throws an exception
 23706: Keyword If Starts a conditional expression **to** determine what **to do** next
 23707: Keyword Implementation Starts the **implementation** (code) section **of** a **Unit**
 23708: Keyword In Used **to** test **if** a value **is** a member **of** a **set**

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23709: Procedure System Inc Increment an ordinal variable
23710: Function DateUtils IncDay Increments a TDateTime variable by + or - number of days
23711: Procedure System Include Include a value in a set variable
23712: Function DateUtils IncMillisecond Increments a TDateTime variable by + or - number of milliseconds
23713: Function DateUtils IncMinute Increments a TDateTime variable by + or - number of minutes
23714: Function SysUtils IncMonth Increments a TDateTime variable by a number of months
23715: Function DateUtils IncSecond Increments a TDateTime variable by + or - number of seconds
23716: Function DateUtils IncYear Increments a TDateTime variable by a number of years
23717: Directive Index Principally defines indexed class data properties
23718: Constant Math Infinity Floating point value of infinite size
23719: Keyword Inherited Used to call the parent class constructor or destructor method
23720: Variable System Input Defines the standard input text file
23721: Function Dialogs InputBox Display a dialog that asks for user text input, with default
23722: Function Dialogs InputQuery Display a dialog that asks for user text input
23723: Procedure System Insert Insert a string into another string
23724: Function System Int The integer part of a floating point number as a float
23725: Type System Int64 A 64 bit sized integer - the largest in Delphi
23726: Type System Integer The basic Integer type
23727: Keyword System Interface Used for Unit external definitions, and as a Class skeleton
23728: Function SysUtils IntToHex Convert an Integer into a hexadecimal string
23729: Function SysUtils IntToStr Convert an integer into a string
23730: Function System IOResult Holds the return code of the last I/O operation
23731: Keyword Is Tests whether an object is a certain class or descendant
23732: Function Math IsInfinite Checks whether a floating point number is infinite
23733: Function SysUtils IsLeapYear Returns true if a given calendar year is a leap year
23734: Function System IsMultiThread Returns true if the code is running multiple threads
23735: Function Math IsNaN Checks to see if a floating point number holds a real number
23736:
23737: L
23738: Compiler Directive $L Determines what application debug information is built
23739: Compiler Directive $LocalSymbols Determines what application debug information is built
23740: Compiler Directive $LongStrings Treat string types as AnsiString or ShortString
23741: Function SysUtils LastDelimiter Find the last position of selected characters in a string
23742: Function System Length Return the number of elements in an array or string
23743: Function System Ln Gives the natural logarithm of a number
23744: Function System Lo Returns the low-order byte of a (2 byte) Integer
23745: Function Math Log10 Gives the log to base 10 of a number
23746: Variable SysUtils LongDateFormat Long version of the date to string format
23747: Variable SysUtils LongDayNames An array of days of the week names, starting 1 = Sunday
23748: Type System LongInt An Integer whose size is guaranteed to be 32 bits
23749: Variable SysUtils LongMonthNames An array of days of the month names, starting 1 = January
23750: Variable SysUtils LongTimeFormat Long version of the time to string format
23751: Type System LongWord A 32 bit unsigned integer
23752: Function System Low Returns the lowest value of a type or variable
23753: Function SysUtils LowerCase Change upper case characters in a string to lower case
23754:
23755: M
23756: Compiler Directive $MinEnumSize Sets the minimum storage used to hold enumerated types
23757: Function Math Max Gives the maximum of two integer values
23758: Constant System MaxInt The maximum value an Integer can have
23759: Constant System MaxLongInt The maximum value an LongInt can have
23760: Function Math Mean Gives the average for a set of numbers
23761: Function Dialogs MessageDlg Displays a message, symbol, and selectable buttons
23762: Function Dialogs MessageDlgPos Displays a message plus buttons at a given screen position
23763: Function Math Min Gives the minimum of two integer values
23764: Constant SysUtils MinsPerDay Gives the number of minutes in a day
23765: Procedure System MkDir Make a directory
23766: Keyword Mod Performs integer division, returning the remainder
23767: Constant SysUtils MonthDays Gives the number of days in a month
23768: Function DateUtils MonthOfTheYear Gives the month of the year for a TDateTime value
23769: Procedure System Move Copy bytes of data from a source to a destination
23770:
23771: N
23772: Constant Math NaN Not a real number
23773: Variable SysUtils NegCurrFormat Defines negative amount formatting in currency displays
23774: Procedure System New Create a new pointer type variable
23775: Constant System Nil A pointer value that is defined as undetermined
23776: Keyword Not Boolean Not or bitwise not of one arguments
23777: Function SysUtils Now Gives the current date and time
23778: Variable Variants Null A variable that has no value
23779:
23780: O
23781: Compiler Directive $O Determines whether Delphi optimises code when compiling
23782: Compiler Directive $Optimization Determines whether Delphi optimises code when compiling
23783: Compiler Directive $OverflowChecks Determines whether Delphi checks integer and enum bounds
23784: Keyword System Object Allows a subroutine data type to refer to an object method
23785: Function System Odd Tests whether an integer has an odd value
23786: Keyword Of Linking keyword used in many places
23787: Keyword On Defines exception handling in a Try Except clause
23788: Keyword Or Boolean or or bitwise or of two arguments
23789: Function System Ord Provides the Ordinal value of an integer, character or enum
23790: Directive Out Identifies a routine parameter for output only
23791: Variable System Output Defines the standard output text file
23792: Directive Overload Allows 2 or more routines to have the same name
23793: Directive Override Defines a method that replaces a virtual parent class method
23794:
23795: P
23796: Keyword Packed Compacts complex data types into minimal storage
23797: Type System PAnsiChar A pointer to an AnsiChar value

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23798: **Type** System PAnsiString Pointer to an AnsiString value
 23799: **Function** System ParamCount Gives the number of parameters passed to the current program
 23800: **Function** System ParamStr Returns one of the parameters used to run the current program
 23801: **Type** System PChar A pointer to an Char value
 23802: **Type** System PCurrency Pointer to a Currency value
 23803: **Type** System PDateTime Pointer to a TDateTime value
 23804: **Type** System PExtended Pointer to a Extended floating point value
 23805: **Function** System Pi The mathematical constant
 23806: **Type** System PInt64 Pointer to an Int64 value
 23807: **Function** Classes Point Generates a TPoint value from X and Y values
 23808: **Type** System Pointer Defines a general use Pointer to any memory based data
 23809: **Function** Classes PointsEqual Compares two TPoint values for equality
 23810: **Function** System Pos Find the position of one string in another
 23811: **Function** System Pred Decrement an ordinal variable
 23812: **Function** Printers Printer Returns a reference to the global Printer object
 23813: Directive **Private** Starts the section of private data and methods in a class
 23814: Keyword System **Procedure** Defines a subroutine that does not return a value
 23815: **Procedure** FileCtrl ProcessPath Split a drive/path/filename string into its constituent parts
 23816: Keyword System **Program** Defines the start of an application
 23817: **Function** Dialogs PromptForFileName Shows a dialog allowing the user to select a file
 23818: Keyword System **Property** Defines controlled access to class fields
 23819: Directive **Protected** Starts a section of class private data accessible to sub-classes
 23820: **Type** System PShortString A pointer to an ShortString value
 23821: **Type** System PString Pointer to a String value
 23822: **Function** Types PtInRect Tests to see if a point lies within a rectangle
 23823: Directive **Public** Starts an externally accessible section of a class
 23824: Directive **Published** Starts a published externally accessible section of a class
 23825: **Type** System PVariant Pointer to a Variant value
 23826: **Type** System PWideChar Pointer to a WideChar
 23827: **Type** System PWideString Pointer to a WideString value
 23828:
 23829: Q
 23830: Compiler Directive \$Q Determines whether Delphi checks integer and enum bounds
 23831:
 23832: R
 23833: Compiler Directive \$R Determines whether Delphi checks array bounds
 23834: Compiler Directive \$RangeChecks Determines whether Delphi checks array bounds
 23835: Compiler Directive \$ReferenceInfo Determines whether symbol reference information is built
 23836: Compiler Directive \$Resource Defines a resource file to be included in the application linking
 23837: **Function** Math RadToDeg Converts a radian value to degrees
 23838: Keyword **Raise** Raise an exception
 23839: **Function** System Random Generate a random floating point or integer number
 23840: **Procedure** System Randomize Reposition the Random number generator next value
 23841: **Function** Math RandomRange Generate a random integer number within a supplied range
 23842: Variable System RandSeed Reposition the Random number generator next value
 23843: **Procedure** System Read Read data from a binary or text file
 23844: **Procedure** System ReadLn Read a complete line of data from a text file
 23845: **Type** System Real A floating point type supporting about 15 digits of precision
 23846: **Type** System Real48 The floating point type with the highest capacity and precision
 23847: **Procedure** System ReallocMem Reallocate an existing block of storage
 23848: **Function** DateUtils RecodeDate Change only the date part of a TDateTime variable
 23849: **Function** DateUtils RecodeTime Change only the time part of a TDateTime variable
 23850: Keyword Record A structured data type - holding fields of data
 23851: **Function** Classes Rect Create a TRect value from 2 points or 4 coordinates
 23852: **Function** SysUtils RemoveDir Remove a directory
 23853: **Procedure** System Rename Rename a file
 23854: **Function** SysUtils RenameFile Rename a file or directory
 23855: Keyword **Repeat** Repeat statements until a termination condition is met
 23856: **Procedure** SysUtils ReplaceDate Change only the date part of a TDateTime variable
 23857: **Procedure** SysUtils ReplaceTime Change only the time part of a TDateTime variable
 23858: **Procedure** System Reset Open a text file for reading, or binary file for read/write
 23859: Variable System Result A variable used to hold the return value from a function
 23860: **Procedure** System ReWrite Open a text or binary file for write access
 23861: **Procedure** System RmDir Remove a directory
 23862: **Function** System Round Rounds a floating point number to an integer
 23863: **Procedure** System RunError Terminates the program with an error dialog
 23864:
 23865: S
 23866: Constant SysUtils SecsPerDay Gives the number of seconds in a day
 23867: **Procedure** System Seek Move the pointer in a binary file to a new record position
 23868: **Function** System SeekEof Skip to the end of the current line or file
 23869: **Function** System SeekEoln Skip to the end of the current line or file
 23870: **Function** FileCtrl SelectDirectory Display a dialog to allow user selection of a directory
 23871: Variable System Self Hidden parameter to a method - refers to the containing object
 23872: Keyword Set Defines a set of up to 255 distinct values
 23873: **Function** SysUtils SetCurrentDir Change the current directory
 23874: **Procedure** System SetLength Changes the size of a string, or the size(s) of an array
 23875: **Procedure** System SetString Copies characters from a buffer into a string
 23876: Keyword Shl Shift an integer value left by a number of bits
 23877: Variable SysUtils ShortDateFormat Compact version of the date to string format
 23878: Variable SysUtils ShortDayNames An array of days of the week names, starting 1 = Sunday
 23879: **Type** System ShortInt An integer type supporting values -128 to 127
 23880: Variable SysUtils ShortMonthNames An array of days of the month names, starting 1 = Jan
 23881: **Type** System ShortString Defines a string of up to 255 characters
 23882: Variable SysUtils ShortTimeFormat Short version of the time to string format
 23883: **Procedure** Dialogs ShowMessage Display a string in a simple dialog with an OK button
 23884: **Procedure** Dialogs ShowMessageFmt Display formatted data in a simple dialog with an OK button
 23885: **Procedure** Dialogs ShowMessagePos Display a string in a simple dialog at a given screen position
 23886: Keyword Shr Shift an integer value right by a number of bits

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23887: Function System Sin The Sine of a number
23888: Type System Single The smallest capacity and precision floating point type
23889: Function System SizeOf Gives the storage byte size of a type or variable
23890: Function System Slice Creates a slice of an array as an Open Array parameter
23891: Type System SmallInt An Integer type supporting values from -32768 to 32767
23892: Function System Sqr Gives the square of a number
23893: Function System Sqrt Gives the square root of a number
23894: Procedure System Str Converts an integer or floating point number to a string
23895: Type System String A data type that holds a string of characters
23896: Function System StringOfChar Creates a string with one character repeated many times
23897: Function SysUtils StringReplace Replace one or more substrings found within a string
23898: Function System StringToWideChar Converts a normal string into a WideChar 0 terminated buffer
23899: Function SysUtils StrScan Searches for a specific character in a constant string
23900: Function SysUtils StrToCurr Convert a number string into a currency value
23901: Function SysUtils StrToDate Converts a date string into a TDateTime value
23902: Function SysUtils StrToDateTm Converts a date+time string into a TDateTime value
23903: Function SysUtils StrToFloat Convert a number string into a floating point value
23904: Function SysUtils StrToInt Convert an integer string into an Integer value
23905: Function SysUtils StrToInt64 Convert an integer string into an Int64 value
23906: Function SysUtils StrToInt64Def Convert a string into an Int64 value with default
23907: Function SysUtils StrToIntDef Convert a string into an Integer value with default
23908: Function SysUtils StrToTime Converts a time string into a TDateTime value
23909: Function StrUtils StuffString Replaces a part of one string with another
23910: Function System Succ Increment an ordinal variable
23911: Function Math Sum Return the sum of an array of floating point values
23912:
23913: T
23914: Function Math Tan The Tangent of a number
23915: Type Classes TBits An object that can hold an infinite number of Boolean values
23916: Variable ConvUtils TConvFamily Defines a family of measurement types as used by Convert
23917: Type ConvUtils TConvType Defines a measurement type as used by Convert
23918: Type System TDateTime Data type holding a date and time value
23919: Type System Text Defines a file as a text file
23920: Type System TextFile Declares a file type for storing lines of text
23921: Type SysUtils TFloatFormat Formats for use in floating point number display functions
23922: Type SysUtils TFormatSettings A record for holding locale values for thread-safe functions
23923: Keyword Then Part of an if statement - starts the true clause
23924: Variable SysUtils ThousandSeparator The character used to display the thousands separator
23925: Keyword ThreadVar Defines variables that are given separate instances per thread
23926: Function SysUtils Time Gives the current time
23927: Variable SysUtils TimeAMString Determines AM value in DateTimeToString procedure
23928: Variable SysUtils TimePMString Determines PM value in DateTimeToString procedure
23929: Variable SysUtils TimeSeparator The character used to separate display time fields
23930: Function SysUtils TimeToStr Converts a TDateTime time value to a string
23931: Type Classes TList General purpose container of a list of objects
23932: Keyword To Prefixes an incremental for loop target value
23933: Type System TObject The base class type that is ancestor to all other classes
23934: Function DateUtils Tomorrow Gives the date tomorrow
23935: Type Dialogs TOpenDialog Displays a file selection dialog
23936: Type Types TPoint Holds X and Y integer values
23937: Type Dialogs TPrintDialog Class that creates a printer selection and control dialog
23938: Type Types TRect Holds rectangle coordinate values
23939: Type SysUtils TReplaceFlags Defines options for the StringReplace routine
23940: Function SysUtils Trim Removes leading and trailing blanks from a string
23941: Function SysUtils TrimLeft Removes leading blanks from a string
23942: Function SysUtils TrimRight Removes trailing blanks from a string
23943: Function System Trunc The integer part of a floating point number
23944: Procedure System Truncate Truncates a file size - removes all data after the current position
23945: Keyword Try Starts code that has error trapping
23946: Type Dialogs TSaveDialog Displays a dialog for selecting a save file name
23947: Type SysUtils TSearchRec Record used to hold data for FindFirst and FindNext
23948: Type Classes TStringList Holds a variable length list of strings
23949: Type SysUtils TSysCharSet Characters used by supplied string parsing functions
23950: Type System TThreadFunc Defines the function to be called by BeginThread
23951: Variable SysUtils TwoDigitYearCenturyWindow Sets the century threshold for 2 digit year string conversions
23952: Keyword Type Defines a new category of variable or process
23953:
23954:
23955: U
23956: Compiler Directive $UnDef Undefines a compiler directive symbol - as used by IfDef
23957: Keyword Unit Defines the start of a unit file - a Delphi module
23958: Keyword Until Ends a Repeat control loop
23959: Function System UpCase Convert a Char value to upper case
23960: Function SysUtils UpperCase Change lower case characters in a string to upper case
23961: Keyword Uses Declares a list of Units to be imported
23962:
23963: V
23964: Procedure System Val Converts number strings to integer and floating point values
23965: Keyword Var Starts the definition of a section of data variables
23966: Type System Variant A variable type that can hold changing data types
23967: Function Variants VarType Gives the current type of a Variant variable
23968: Constant Variants VarTypeMask Mask for the meta-type part of a Variant variable
23969: Directive Virtual Allows a class method to be overridden in derived classes
23970:
23971: W
23972: Compiler Directive $Warnings Determines whether Delphi shows compilation warnings
23973: Keyword While Repeat statements whilst a continuation condition is met
23974: Type System WideChar Variable type holding a single International character
23975: Function System WideCharToString Copies a null terminated WideChar string to a normal string

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23976: Type System WideString A data type that holds a string of WideChars
23977: Keyword With A means of simplifying references to structured variables
23978: Type System Word An integer type supporting values 0 to 65535
23979: Function SysUtils WrapText Add line feeds into a string to simulate word wrap
23980: Procedure System Write Write data to a binary or text file
23981: Procedure System WriteLn Write a complete line of data to a text file
23982:
23983: X
23984: Compiler Directive $X Controls some Pascal extension handling
23985: Keyword Xor Boolean Xor or bitwise Xor of two arguments
23986:
23987: Y
23988: Compiler Directive $Y Determines whether application symbol information is built
23989: Function DateUtils Yesterday Gives the date yesterday
23990:
23991: Z
23992: Compiler Directive $Z Sets the minimum storage used to hold enumerated types
23993:
23994: -----
23995: mapX:
23996:   if GetMAPX('html',ExePath+'cologne2mapX.html','cathedral cologne') then
23997:     writeln('cologne map found');
23998:     GetGeoMAP('html',ExePath+AFILENAME2,'dom cologne')
23999:     writeln(GetMapXGeoReverse('XML','47.0397826','7.62914761277888'))
24000:     OpenMapX('church trier');
24001:     GetGeoCode(C_form,apath:string; const data: string; sfile: boolean): string;
24002:     writeln(GetGeoCode('xml',ExePath+'outputmap_2cologne.xml','cathedral cologne',false));
24003:     >>> //latitude: '50.94133705' longitude: '6.95812076100766'
24004:     // type TPos = (tLat, tLon); TShowFmt = (sfNautical, sfStatute, sfMetric);
24005:     CoordinateStr(Idx: Integer; PosInSec: Double; PosLn: TPos): string;
24006:     Function SendInput( cInputs : UINT; var pInputs : TInput; cbSize : Integer ) : UINT;
24007:     Function GetLastInputInfo( var plii : TLastInputInfo ) : BOOL;
24008:
24009:
24010: maxbox Ref:
24011: Signature:
24012: SHA1: maxbox3.exe 3EFB12E5729BDAA745373C2743F9DD1E93C9295D
24013: CRC32: maxbox3.exe 9435E377
24014:
24015: Ref:
24016:   1. writeln(SHA1(exepath+'\maxbox3.exe'))
24017:   2. shdig: TSHA1Digest;
24018:     shdig:= GetSHA1OfFile(false,exepath+'\maxbox3.exe');
24019:     for i:= 0 to 19 do write(BytetoHex(shdig[i]));
24020:
24021:   3. writeln(IntToHex(CRC32OfFile(exepath+'\maxbox3.exe'),4));
24022:
24023:
24024: https://www.virustotal.
com/en/file/aa4a38fed63d66b0e4cdbf6642533a84fc0d70ef7f0398909eaa98ab543e5cc4/analysis/1417190705/
24025:
24026: VirusTotal metadata
24027:
24028: First submission 2014-11-28 16:05:05 UTC ( 7 minutes ago )
24029: Last submission 2014-11-28 16:05:05 UTC ( 7 minutes ago )
24030: File names Surprise mx4
24031: maxbox3.exe
24032: maxbox3_9.exe
24033:
24034: SHA256: aa4a38fed63d66b0e4cdbf6642533a84fc0d70ef7f0398909eaa98ab543e5cc4
24035: File name: maxbox3.exe
24036: Detection ratio: 0 / 56
24037: Analysis date: 2014-11-28 16:05:05 UTC ( 2 minutes ago )
24038:
24039: MD5 0cad3130b08ca9e4411c810ece12af6a
24040: SHA1 3efb12e5729bdAA745373c2743f9dd1e93c9295d
24041: SHA256 aa4a38fed63d66b0e4cdbf6642533a84fc0d70ef7f0398909eaa98ab543e5cc4
24042: ssdeep 393216:5sQE18iDOZWNXYxbsjjztTsfNEnqqSdQ:VQEGWNckoNY0
24043:
24044: authentihash bb825f992fc9401de0738ca4703c206e472ec2e1211bfc383417bcd49e23b49
24045: imphash 995a4c7c553245e979876cb44c73c127
24046:
24047: File size 22.5 MB ( 23614464 bytes )
24048: File type Win32 EXE
24049: Magic literal
24050: PE32 executable for MS Windows (GUI) Intel 80386 32-bit
24051:
24052: TrID Windows ActiveX control (36.4%)
24053: Inno Setup installer (34.3%)
24054: InstallShield setup (13.4%)
24055: Win32 EXE PECompact compressed (generic) (13.0%)
24056: Win32 Executable (generic) (1.4%)
24057:
24058:
24059: ExifTool file metadata
24060: -----
24061:
24062: SpecialBuild mx4
24063: CodeSize 18578944

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24064: SubsystemVersion 4.0
24065: Comments reduce to the max
24066: LinkerVersion 2.25
24067: ImageVersion 0.0
24068: FileSubtype 0
24069: FileVersionNumber 3.9.9.120
24070: LanguageCode German (Swiss)
24071: FileFlagsMask 0x003f
24072: FileDescription **maxbox** Delphi VM
24073: CharacterSet Windows, Latin1
24074: InitializedDataSize 5034496
24075: FileOS Win32
24076:TimeStamp 2014:11:28 07:52:53+01:00
24077: MIMEType application/octet-stream
24078: LegalCopyright Free **Pascal** Script
24079: Fileversion 3.9.9.120
24080: SpeziellesBuild mx4 Compiler Engine
24081: FileType Win32 EXE
24082: PEType PE32
24083: InternalName Surprise mx4
24084: FileAccessDate 2014:11:28 17:05:21+01:00
24085: ProductVersion 3.9 Solar mx4
24086: UninitializedDataSize 0
24087: OSVersion 4.0
24088: FileCreateDate 2014:11:28 17:05:21+01:00
24089: OriginalFilename maxbox3_9.exe
24090: Subsystem Windows GUI
24091: MachineType Intel 386 or later, and compatibles
24092: CompanyName kleiner kommunikation
24093: LegalTrademarks **maxbox**
24094: ProductName **maxbox**
24095: ProductVersionNumber 3.9.9.120
24096: EntryPoint 0x11b8bc8
24097: ObjectFileType Executable application
24098:
24099: ExifTool file metadata
24100: -----
24101:
24102: Developer metadata
24103:
24104: Publisher kleiner kommunikation
24105: Product **maxbox**
24106: Original name maxbox3_9.exe
24107: Internal name Surprise mx4
24108: File version 3.9.9.120
24109: Description **maxbox** Delphi VM
24110: Comments reduce to the max
24111:
24112: PE header basic information
24113:
24114: Target machine Intel 386 or later processors and compatible processors
24115: Compilation timestamp 2014-11-28 06:52:53
24116: Link date 7:52 AM 11/28/2014
24117: Entry Point 0x011B8BC8
24118: Number of sections 10
24119:
24120: 10 PE sections
24121:
24122: Name Virtual address Virtual size Raw size Entropy MD5
24123: .text 4096 18530188 18530304 6.60 f713bdffd017af0db7502220027e1db91
24124: .itext 18534400 48396 48640 6.59 0f19c2a354dbe4670cc176da08c275f
24125: .data 18583552 263428 263680 5.58 1d26b778a838680bbe58d1b5cc1a885e
24126: .bss 18849792 381132 0 0.00 d41d8cd98f00b204e9800998ecf8427e
24127: .idata 19234816 55120 55296 5.63 f260089b89816d6b51bf67b81f21618f
24128: .edata 19292160 77 512 0.89 d750ae0f6bc96f2f43ca0d749817d42b
24129: .tbs 19296256 208 0 0.00 d41d8cd98f00b204e9800998ecf8427e
24130: .rdata 19300324 24 512 0.28 182f0f96d2fd255ef9f76ec92bb0c3ff
24131: .reloc 19304448 1179672 1180160 6.76 b5abed6a26b4f7619aa1943694465635
24132: .rsrc 20488192 3534336 3534336 5.28 12861f6285d9b9dd393469215742faff
24133:
24134: PE imports
24135:
24136: PE exports CreateIncome
24137:
24138: Number of PE resources by type
24139: RT_BITMAP 810
24140: RT_STRING 304
24141: RT_RCDATA 158
24142: RT_ICON 49
24143: RT_GROUP_ICON 43
24144: RT_CURSOR 31
24145: RT_GROUP_CURSOR 26
24146: WAVE 9
24147: RT_DIALOG 2
24148: RT_HTML 2
24149: RT_MESSAGETABLE 1
24150: RT_MANIFEST 1
24151: RT_VERSION 1
24152:

```
24153:
24154: PE imports
24155:
24156: [+] AVICAP32.DLL  [+] AVICAP32.dll  [+] GLU32.dll
24157: [+] IMAGEHLP.DLL  [+] MSVCRT.DLL  [+] MSVFW32.DLL
24158: [+] OpenGL32.dll  [+] SHFolder.dll  [+] URLMON.DLL
24159: [+] advapi32.dll  [+] comct132.dll  [+] comdlg32.dll
24160: [+] gdi32.dll  [+] imagehlp.dll  [+] imm32.dll
24161: [+] iphlpapi.dll  [+] kernel32.dll  [+] mpr.dll
24162: [+] msacm32.dll  [+] ole32.dll  [+] oleacc.dll
24163: [+] oleaut32.dll  [+] oledlg.dll  [+] opengl32.dll
24164: [+] shell32.dll  [+] shlwapi.dll  [+] user32.dll
24165: [+] usp10.dll  [+] version.dll  [+] winhttp.dll
24166: [+] wininet.dll  [+] winmm.dll  [+] winspool.drv
24167: [+] ws2_32.dll  [+] wsock32.dll  [+] msimg32.dll
24168:
24169: Ref:
24170: https://www.virustotal.com/en/file/aa4a38fed63d66b0e4cdbf6642533a84fc0d70ef7f0398909eaa98ab543e5cc4/analysis/1417190705/
24171:
24172: ****
24173: Release Notes maXbox 3.9.9.120 December 2014 CODEsign
24174: ****
24175: Add 10 Units, 1Slides, NeuralNetwork, Pan3D View, GDIBackend
24176: 1043 unit uPSI_NeuralNetwork;
24177: 1044 unit uPSI_StExpr;
24178: 1045 unit uPSI_GR32_Geometry;
24179: 1046 unit uPSI_GR32_Containers;
24180: 1047 unit uPSI_GR32_Backends_VCL,
24181: 1048 unit uPSI_StSaturn; //Venus+Pluto+Mars+Merc+JupSat+ ++
24182: 1049 unit uPSI_JclParseUses;
24183: 1050 unit uPSI_JvFinalize;
24184: 1051 unit uPSI_panUnit1;
24185: 1052 unit uPSI_DD83ul; //Arduino Tester
24186:
24187: SHA1: maXbox3.exe 3EFB12E5729BDAA745373C2743F9DD1E93C9295D
24188: CRC32: maXbox3.exe 9435E377
24189:
24190: ---- bigbitbox code_cleared_checked----
```