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1: ****
2: Constructor Function and Procedure List of maxbox 3.9.9
3: ****
4:
5: //////////////////////////////////////////////////////////////////
6: ref Help Extraxt of EXE Functions of maxbox3.exe BigBitBox API HEX in BOX
7: -----
8:
9: File Size of EXE:21019136 V3.9.9.95 Mai 2014 To EKON/BASTA/JAX/IBZ/SWS
10: *****Now the Funclist*****
11: Funclist Function : 12527 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 7767 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1264 //995 //
16: def head:max: maxBox7: 26.04.2014 19:11:55
17: file E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt
18: doc file: maxbox_extract_funcList399_.txt (sort function list)
19: -----
20: Funclist total Size all is: 21558! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 20950
22: ASize of EXE: 21019136 (16586240) (13511680) (13023744)
23: SHA1 Hash of maxbox 3.9.9.95: A8BE7AD5B70ECAF9797C5C9E42A3CD40E903145F
24:
25: -----
26: -----
27: //////////////////////////////////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: Function *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: Function ( Index: Longint ): Integer
34: function ( Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: Function _CheckAutoResult( ResultCode : HResult ) : HResult
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: Function Abs(e : Extended) : Extended;
39: Function Ackermann( const A, B : Integer ) : Integer
40: Function AcquireLayoutLock : Boolean
41: Function ActionByName( const AName : string ) : TWebActionItem
42: Function ACTIVEBUFFER : PCHAR
43: Function Add : TAggregate
44: function Add : TCollectionItem
45: Function Add : TColumn
46: Function Add : TComboExItem
47: Function Add : TCookie
48: Function Add : TCoolBand
49: Function Add : TFavoriteLinkItem
50: Function Add : TFileTypeItem
51: Function Add : THeaderSection
52: Function Add : THTMLTableColumn
53: Function Add : TIdEmailAddressItem
54: Function Add : TIdMessagePart
55: Function Add : TIdUserAccount
56: Function Add : TListColumn
57: Function Add : TListItem
58: Function Add : TStatusPanel
59: Function Add : TTaskDialogBaseButtonItem
60: Function Add : TWebActionItem
61: Function Add : TWorkArea
62: Function Add( AClass : TClass ) : Integer
63: Function Add( AComponent : TComponent ) : Integer
64: Function Add( AItem, AData : Integer ) : Integer
65: Function Add( AItem, AData : Pointer ) : Pointer
66: Function Add( AItem, AData : TObject ) : TObject
67: Function Add( AObject : TObject ) : Integer
68: Function Add( const Access, Count : Cardinal; const Offset : Int64 ) : Integer
69: Function Add( const S : WideString ) : Integer
70: Function Add( Image, Mask : TBitmap ) : Integer
71: Function Add( Index : LongInt; const Text : string ) : LongInt
72: Function Add( Sibling : TTreeNode; const S : string ) : TTreeNode
73: Function Add( const S : string ) : Integer
74: function Add( S : string ) : Integer;
75: Function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address : Pointer ) : Integer
76: Function ADDCHILD : TFIELDDEF
77: Function AddChild( Index : LongInt; const Text : string ) : LongInt
78: Function AddChild( Parent : TTreeNode; const S : string ) : TTreeNode
79: Function AddChildFirst( Parent : TTreeNode; const S : string ) : TTreeNode
80: Function AddChildObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
81: Function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
82: Function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
83: Function ADDFIELDDEF : TFIELDDEF
84: Function AddFileExtIfNecessary( AFileName, AExt : string ) : string
85: Function AddFirst( Sibling : TTreeNode; const S : string ) : TTreeNode
86: Function AddIcon( Image : TIcon ) : Integer
87: Function AddImage( Value : TCustomImageList; Index : Integer ) : Integer
88: Function ADDINDEXDEF : TINDEXDEF
89: Function AddItem( const Caption: String; const ImageIdx, SelectImageIdx, OverlayImageIdx,
    Indent: Int; Data: Ptr ) : TComboExItem

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1399: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1400: Function HashValue128Stream(Astream: TStream): T4x4LongWordRecord;
1401: Function HashValue16( const ASrc : string ) : Word;
1402: Function HashValue16Stream( Astream : TStream ) : Word;
1403: Function HashValue32( const ASrc : string ) : LongWord;
1404: Function HashValue32Stream( Astream : TStream ) : LongWord;
1405: Function HasMergeConflicts : Boolean;
1406: Function hasMoreTokens : boolean;
1407: Function HASPARENT : BOOLEAN;
1408: function HasParent: Boolean;
1409: Function HasTransaction( Transaction : TDBXTransaction ) : Boolean;
1410: Function HasUTF8BOM( S : TStream ) : boolean;
1411: Function HasUTF8BOM1( S : AnsiString ) : boolean;
1412: Function Haversine( X : Float ) : Float;
1413: Function Head( s : string; const subs : string; var tail : string ) : string;
1414: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN;
1415: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN;
1416: function HELPJUMP(JUMPID:STRING):BOOLEAN;
1417: Function HeronianMean( const a, b : Float ) : Float;
1418: function HexStrToStr(Value: string): string;
1419: function HexToBin(Text,Buffer:PChar;BufSize:Integer):Integer;
1420: function HexToBin2(HexNum: string): string;
1421: Function Hex.ToDouble( const Hex : string ) : Double;
1422: function HexToInt(hexnum: string): LongInt;
1423: function HexToStr(Value: string): string;
1424: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string;
1425: function Hi(vdat: word): byte;
1426: function HiByte(W: Word): Byte;
1427: function High: Int64;
1428: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean;
1429: function HINSTANCE: longword;
1430: function HiWord(l: DWORD): Word;
1431: function HMODULE: longword;
1432: Function HourOf( const AValue : TDateTime ) : Word;
1433: Function HourOfTheDay( const AValue : TDateTime ) : Word;
1434: Function HourOfTheMonth( const AValue : TDateTime ) : Word;
1435: Function HourOfTheWeek( const AValue : TDateTime ) : Word;
1436: Function HourOfTheYear( const AValue : TDateTime ) : Word;
1437: Function HoursBetween( const ANow, AThen : TDateTime ) : Int64;
1438: Function HourSpan( const ANow, AThen : TDateTime ) : Double;
1439: Function HLSLToRGB1( const H, S, L : Single ) : TColor32;
1440: Function HTMLDecode( const AStr : String ) : String;
1441: Function HTMLEncode( const AStr : String ) : String;
1442: Function HTMLEscape( const Str : string ) : string;
1443: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer ) : string;
1444: Function HTTPDecode( const AStr : String ) : string;
1445: Function HTTPEncode( const AStr : String ) : string;
1446: Function Hypot( const X, Y : Extended ) : Extended;
1447: Function IBMX( n1, n2 : Integer ) : Integer;
1448: Function IBMIn( n1, n2 : Integer ) : Integer;
1449: Function IBRandomString( iLength : Integer ) : String;
1450: Function IBRandomInteger( iLow, iHigh : Integer ) : Integer;
1451: Function IBStripString( st : String; CharsToStrip : String ) : String;
1452: Function IBFormatIdentifier( Dialect : Integer; Value : String ) : String;
1453: Function IBFormatIdentifierValue( Dialect : Integer; Value : String ) : String;
1454: Function IBExtractIdentifier( Dialect : Integer; Value : String ) : String;
1455: Function IBQuoteIdentifier( Dialect : Integer; Value : String ) : String;
1456: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1457: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1458: Function RandomString( iLength : Integer ) : String';
1459: Function RandomInteger( iLow, iHigh : Integer ) : Integer';
1460: Function StripString( st : String; CharsToStrip : String ) : String';
1461: Function FormatIdentifier( Dialect : Integer; Value : String ) : String';
1462: Function FormatIdentifierValue( Dialect : Integer; Value : String ) : String';
1463: Function ExtractIdentifier( Dialect : Integer; Value : String ) : String';
1464: Function QuoteIdentifier( Dialect : Integer; Value : String ) : String';
1465: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1466: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1467: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLToken): TSQLToken;
1468: Function IconToBitmap( Ico : HICON ) : TBitmap;
1469: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1470: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1471: function IdentToCharset(const Ident: string; var Charset: Longint): Boolean;
1472: function IdentToColor(const Ident: string; var Color: Longint): Boolean;
1473: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1474: Function IdGetDefaultCharSet : TIdCharSet;
1475: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant;
1476: Function IdPorts2 : TStringList;
1477: Function IdToMib( const Id : string ) : string;
1478: Function IdSHA1Hash(apath: string): string;
1479: Function IdHashSHA1(apath: string): string;
1480: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string ) : string;
1481: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string ) : string;
1482: Function iif1( ATest : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer;
1483: Function iif2( ATest : Boolean; const ATrue : string; const AFalse : string ) : string;
1484: Function iif3( ATest : Boolean; const ATrue : Boolean; const AFalse : Boolean ) : Boolean;
1485: function ImportTest(S1: string;s2:longint; s3:Byte; s4:word; var s5:string): string;
1486: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime;
1487: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime;

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1488: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte) : Byte;
1489: Function IncLimit1( var B : Shortint; const Limit : Shortint; const Incr : Shortint) : Shortint;
1490: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint) : Smallint;
1491: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word) : Word;
1492: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer) : Integer;
1493: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal) : Cardinal;
1494: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64) : Int64;
1495: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte) : Byte;
1496: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint) : Shortint;
1497: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint) : Smallint;
1498: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word) : Word;
1499: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer) : Integer;
1500: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal) : Cardinal;
1501: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64) : Int64;
1502: Function IncludeTrailingBackslash( S : string) : string
1503: function IncludeTrailingBackslash(const S: string): string
1504: Function IncludeTrailingPathDelimiter( const APath : string) : string
1505: Function IncludeTrailingPathDelimiter( S : string) : string
1506: function IncludeTrailingPathDelimiter(const S: string): string
1507: Function IncludeTrailingSlash( const APath : string) : string
1508: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64) : TDateTime
1509: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64) : TDateTime
1510: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer) : TDateTime
1511: function IncMonth(const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1512: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64) : TDateTime
1513: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer) : TDateTime
1514: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer) : TDateTime
1515: Function IndexOf( AClass : TClass) : Integer
1516: Function IndexOf( AComponent : TComponent) : Integer
1517: Function IndexOf( AObject : TObject) : Integer
1518: Function INDEXOF( const ANAME : String) : INTEGER
1519: Function IndexOf( const DisplayName : string) : Integer
1520: Function IndexOf( const Item : TBookmarkStr) : Integer
1521: Function IndexOf( const S : WideString) : Integer
1522: Function IndexOf( const View : TJclFileMappingView) : Integer
1523: Function INDEXOF( FIELD : TFIELD) : INTEGER
1524: Function IndexOf( ID : LCID) : Integer
1525: Function INDEXOF( ITEM : TMENUITEM) : INTEGER
1526: Function IndexOf( Value : TListItem) : Integer
1527: Function IndexOf( Value : TTreeNode) : Integer
1528: function IndexOf(const S: string): Integer;
1529: Function IndexOfName( const Name : WideString) : Integer
1530: function IndexOfName(Name: string): Integer;
1531: Function IndexOfObject( AObject : TObject) : Integer
1532: function IndexofObject(AObject:tObject):Integer
1533: Function IndexOfTabAt( X, Y : Integer) : Integer
1534: Function IndexStr( const AText : string; const AValues : array of string) : Integer
1535: Function IndexText( const AText : string; const AValues : array of string) : Integer
1536: Function IndexOfInteger( AList : TStringList; Value : Variant) : Integer
1537: Function IndexOfFloat( Alist : TStringList; Value : Variant) : Integer
1538: Function IndexOfDate( Alist : TStringList; Value : Variant) : Integer
1539: Function IndexOfString( Alist : TStringList; Value : Variant) : Integer
1540: Function IndyCompareStr( const A1 : string; const A2 : string) : Integer
1541: Function IndyGetHostName : string
1542: Function IndyInterlockedDecrement( var I : Integer) : Integer
1543: Function IndyInterlockedExchange( var A : Integer; B : Integer) : Integer
1544: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer) : Integer
1545: Function IndyInterlockedIncrement( var I : Integer) : Integer
1546: Function IndyLowerCase( const A1 : string) : string
1547: Function IndyStrToBool( const AString : String) : Boolean
1548: Function IndyUpperCase( const A1 : string) : string
1549: Function InitCommonControl( CC : Integer) : Boolean
1550: Function InitTempPath : string
1551: Function InMainThread : boolean
1552: Function inOpArray( W : WideChar; sets : array of WideChar) : boolean
1553: Function Input: Text)
1554: Function InputBox( const ACaption, APrompt, ADefault : string) : string
1555: function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string
1556: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1557: Function InputQuery( const ACaption, APrompt : string; var Value : string) : Boolean
1558: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1559: Function InquireSignal( RtlSigNum : Integer) : TSignalState
1560: Function InRanger( const A, Min, Max : Double) : Boolean
1561: function Insert( Index : Integer) : TCollectionItem
1562: Function Insert( Index : Integer) : TComboExItem
1563: Function Insert( Index : Integer) : THeaderSection
1564: Function Insert( Index : Integer) : TListItem
1565: Function Insert( Index : Integer) : TStatusPanel
1566: Function Insert( Index : Integer) : TWorkArea
1567: Function Insert( Index : LongInt; const Text : string) : LongInt
1568: Function Insert( Sibling : TTreeNode; const S : string) : TTreeNode
1569: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM) : INTEGER
1570: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM) : INTEGER
1571: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1572: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
1573: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1574: Function Instance : Longint
1575: function InstanceSize: Longint
1576: Function Int(e : Extended) : Extended;

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

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1664: Function IsReadOnly( const Filename: string): boolean;
1665: Function IsRectEmpty( const Rect : TRect ) : Boolean
1666: function IsRectEmpty( const Rect: TRect): Boolean
1667: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1668: Function ISRIGHTTOLEFT : BOOLEAN
1669: function IsRightToLeft: Boolean
1670: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1671: Function ISSEQUENCED : BOOLEAN
1672: Function IsSystemModule( const Module : HMODULE ) : Boolean
1673: Function IsSystemResourcesMeterPresent : Boolean
1674: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: string): boolean;
1675: Function IsToday( const TValue : TDateTime ) : Boolean
1676: function IsToday(const TValue: TDateTime): Boolean;
1677: Function IsTopDomain( const AStr: string) : Boolean
1678: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1679: Function IsUTF8String( const s : UTF8String ) : Boolean
1680: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1681: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1682: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1683: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1684: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1685: Function IsValidDateTime( const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond: Word): Boolean
1686: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1687: Function IsValidIdent( Ident : string ) : Boolean
1688: function IsValidIdent( const Ident: string; AllowDots: Boolean): Boolean
1689: Function IsValidIP( const S : String ) : Boolean
1690: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1691: Function IsValidISBN( const ISBN : AnsiString ) : Boolean
1692: Function IsVariantManagerSet: Boolean; //deprecated;
1693: Function IsVirtualPcGuest : Boolean;
1694: Function IsVmWareGuest : Boolean;
1695: Function IsVCLControl(Handle: HWnd): Boolean;
1696: Function IsWhiteString( const AStr : String ) : Boolean
1697: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1698: Function IsWow64: boolean;
1699: Function IsWin64: boolean;
1700: Function IsWow64String(var s: string): Boolean;
1701: Function IsWin64String(var s: string): Boolean;
1702: Function IsWindowsVista: boolean;
1703: Function isPowerOf2(num: int64): boolean;
1704: Function powerOf2(exponent: integer): int64;
1705: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1706: function IsZer0l(const A: Double; Epsilon: Double): Boolean //overload;
1707: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1708: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1709: function ITEMATPOS(POS:TPOINT;EXISTING:BOOLEAN):INTEGER
1710: Function ItemRect( Index : Integer ) : TRect
1711: function ITEMRECT(INDEX:INTEGER):TRECT
1712: Function ItemWidth( Index : Integer ) : Integer
1713: Function JavahashCode(val: string): Integer;
1714: Function JosephusG(n,k: integer; var graphout: string): integer;
1715: Function JulianDateToDateTime( const TValue : Double ) : TDateTime
1716: Function JvMessageBox( const Text, Caption : string; Flags : DWORD ) : Integer;
1717: Function JvMessageBox1( const Text : string; Flags : DWORD ) : Integer;
1718: Function KeepAlive : Boolean
1719: Function KeysToShiftState(Keys: Word): TShiftState;
1720: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1721: Function KeyboardStateToShiftState2( const KeyboardState: TKeyboardState): TShiftState;
1722: Function KeyboardStateToShiftState: TShiftState; overload;
1723: Function Languages : TLanguages
1724: Function Last : TClass
1725: Function Last : TComponent
1726: Function Last : TObject
1727: Function LastDelimiter( Delimiters, S : string ) : Integer
1728: function LastDelimiter(const Delimiters: string; const S: string): Integer
1729: Function LastPos( const ASubstr : string; const AStr : string ) : Integer
1730: Function Latitude2WGS84(lat: double): double;
1731: Function LCM(m,n:longint):longint;
1732: Function LCMJ( const X, Y : Cardinal ) : Cardinal
1733: Function Ldexp( const X : Extended; const P : Integer ) : Extended
1734: Function LeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
1735: Function LeftStr( const AText : WideString; const ACount : Integer ) : WideString;
1736: function Length: Integer;
1737: Procedure LetFileList(FileList: TStringlist; apath: string);
1738: function lengthmp3(mp3path: string):integer;
1739: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect ) : Boolean;
1740: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1741: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1742: function LineStart(Buffer, BufPos: PChar): PChar
1743: function LineStart(Buffer, BufPos: PChar): PChar
1744: function ListSeparator: char;
1745: function Ln(x: Extended): Extended;
1746: Function LnXp1( const X : Extended ) : Extended
1747: function Lo(vdat: word): byte;
1748: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1749: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean ) : Boolean
1750: Function LoadFileAsString( const FileName : string ) : string
1751: Function LoadFromFile( const FileName : string ) : TBitmapLoader

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1752: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1753: Function LoadPackage(const Name: string): HMODULE
1754: Function LoadResource(ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1755: Function LoadStr( Ident: Integer) : string
1756: Function LoadString(Instance: Longint; Ident: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1757: Function LoadWideStr( Ident : Integer) : WideString
1758: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1759: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
1760: Function LockServer( fLock : LongBool) : HRESULT
1761: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1762: Function Log( const X : Extended) : Extended
1763: Function Log10( const X : Extended) : Extended
1764: Function Log2( const X : Extended) : Extended
1765: function LogBase10(X: Float): Float;
1766: Function LogBase2(X: Float): Float;
1767: Function LogBaseN(Base, X: Float): Float;
1768: Function LogN( const Base, X : Extended) : Extended
1769: Function LogOffOS : Boolean
1770: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1771: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1772: Function LongDateFormat: string;
1773: function LongTimeFormat: string;
1774: Function LongWordToFourChar( ACARDINAL : LongWord) : string
1775: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1776: Function LookupName( const name : string) : TInAddr
1777: Function LookupService( const service : string) : Integer
1778: function Low: Int64;
1779: Function LowerCase( S : string) : string
1780: Function Lowercase(s : AnyString) : AnyString;
1781: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1782: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1783: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1784: function MainInstance: longword
1785: function MainThreadID: longword
1786: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1787: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1788: Function MakeCanonicalIPv4Address( const AAAddr : string) : string
1789: Function MakeCanonicalIPv6Address( const AAAddr : string) : string
1790: Function MakeIB( out Bitmap : PBitmapInfo) : Integer
1791: Function MakeDWordIntoIPv4Address( const ADWord : Cardinal) : string
1792: function MakeLong(A, B: Word): Longint)
1793: Function MakeTempFilename( const APath : String) : string
1794: Function MakeValidFileName( const Str : string) : string
1795: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1796: function MakeWord(A, B: Byte): Word)
1797: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1798: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1799: Function MapValues( Mapping : string; Value : string) : string
1800: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1801: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1802: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1803: Function MaskGetFldSeparator( const EditMask : string) : Integer
1804: Function MaskGetMaskBlank( const EditMask : string) : Char
1805: Function MaskGetMaskSave( const EditMask : string) : Boolean
1806: Function MaskIntLiteralToChar( IChar : Char) : Char
1807: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1808: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1809: Function MaskString( Mask, Value : String) : String
1810: Function Match( const sString : string) : TniRegularExpressionMatchResult
1811: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1812: Function Matches( const Filename : string) : Boolean
1813: Function MatchesMask( const Filename, Mask : string) : Boolean
1814: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1815: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1816: Function Max( AValueOne, AValueTwo : Integer) : Integer
1817: function Max(const x,y: Integer): Integer;
1818: Function Max1( const B1, B2 : Shortint) : Shortint;
1819: Function Max2( const B1, B2 : Smallint) : Smallint;
1820: Function Max3( const B1, B2 : Word) : Word;
1821: function Max3(const x,y,z: Integer): Integer;
1822: Function Max4( const B1, B2 : Integer) : Integer;
1823: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1824: Function Max6( const B1, B2 : Int64) : Int64;
1825: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1826: Function MaxFloat( const X, Y : Float) : Float
1827: Function MaxFloatArray( const B : TDynFloatArray) : Float
1828: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1829: function MaxIntValue(const Data: array of Integer):Integer)
1830: Function MaxJ( const B1, B2 : Byte) : Byte;
1831: function MaxPath: string;
1832: function MaxValue(const Data: array of Double): Double)
1833: Function MaxCalc( const Formula : string) : Extended //math expression parser
1834: Procedure MaxCalcF( const Formula : string); //out to console memo2
1835: function MD5(const fileName: string): string;
1836: Function Mean( const Data : array of Double) : Extended
1837: Function Median( const X : TDynFloatArray) : Float
1838: Function Memory : Pointer
1839: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1840: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;

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

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

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2008: Function ParamCount: Integer
2009: Function ParamsEncode( const ASrc : string ) : string
2010: function ParamStr(Index: Integer): string
2011: Function ParseDate( const DateStr : string ) : TDateTime
2012: Function PARSESQL( SQL : string; DoCreate : Boolean ) : String
2013: Function ParseSQL( SQL : WideString; DoCreate : Boolean ) : WideString
2014: Function PathAddExtension( const Path, Extension : string ) : string
2015: Function PathAddSeparator( const Path : string ) : string
2016: Function PathAppend( const Path, Append : string ) : string
2017: Function PathBuildRoot( const Drive : Byte) : string
2018: Function PathCanonicalize( const Path : string ) : string
2019: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2020: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string;
2021: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int;CmpFmt:TCompactPath):string;
2022: Function PathEncode( const ASrc : string ) : string
2023: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2024: Function PathExtractFileNameNoExt( const Path : string ) : string
2025: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2026: Function PathGetDepth( const Path : string ) : Integer
2027: Function PathGetLongName( const Path : string ) : string
2028: Function PathGetLongName2( Path : string ) : string
2029: Function PathGetShortName( const Path : string ) : string
2030: Function PathIsAbsolute( const Path : string ) : Boolean
2031: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2032: Function PathIsDiskDevice( const Path : string ) : Boolean
2033: Function PathIsUNC( const Path : string ) : Boolean
2034: Function PathRemoveExtension( const Path : string ) : string
2035: Function PathRemoveSeparator( const Path : string ) : string
2036: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2037: Function Peek : Pointer
2038: Function Peek : TObject
2039: function PERFORM(MSG:CARDINAL;WPARAM:LPARAM;LPARAM:LONGINT):LONGINT
2040: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2041: function Permutation(npr, k: integer): extended;
2042: function PermutationInt(npr, k: integer): Int64;
2043: Function PermutationJ( N, R : Cardinal ) : Float
2044: Function Pi : Extended;
2045: Function PiE : Extended;
2046: Function PixelsToDialogsX( const Pixels : Word ) : Word
2047: Function PixelsToDialogsY( const Pixels : Word ) : Word
2048: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2049: Function Point( X, Y : Integer ) : TPoint
2050: function Point(X, Y: Integer): TPoint
2051: Function PointAssign( const X, Y : Integer ) : TPoint
2052: Function PointDist( const P1, P2 : TPoint ) : Double;
2053: function PointDist(const P1,P2: TFloaPoint): Double;
2054: Function PointDist1( const P1, P2 : TFloaPoint ) : Double;
2055: function PointDist2(const P1,P2: TPoint): Double;
2056: Function PointEqual( const P1, P2 : TPoint ) : Boolean
2057: Function PointIsNull( const P : TPoint ) : Boolean
2058: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloaPoint ) : Double
2059: Function Poly( const X : Extended; const Coefficients : array of Double ) : Extended
2060: Function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
2061: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2062: Function Pop : Pointer
2063: Function Pop : TObject
2064: Function PopnStdDev( const Data : array of Double ) : Extended
2065: Function PopnVariance( const Data : array of Double ) : Extended
2066: Function PopulationVariance( const X : TDynFloatArray ) : Float
2067: function Pos(SubStr, S: AnyString): Longint;
2068: Function PosEqual( const Rect : TRect ) : Boolean
2069: Function PosEx( const SubStr, S : string; Offset : Integer ) : Integer
2070: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt ) : Integer
2071: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2072: Function Post1( AURL : string; const ASource : TStrings ) : string;
2073: Function Post2( AURL : string; const ASource : TStream ) : string;
2074: Function Post3( AURL : string; const ASource : TIIdMultiPartFormDataStream ) : string;
2075: Function PostData( const UserData : WideString; const CheckSum : DWORD ) : Boolean
2076: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2077: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2078: Function Power( const Base, Exponent : Extended ) : Extended
2079: Function PowerBig(aval, n:integer): string;
2080: Function PowerIntJ( const X : Float; N : Integer ) : Float;
2081: Function PowerJ( const Base, Exponent : Float ) : Float;
2082: Function PowerOffOS : Boolean
2083: Function PreformatDateString( Ps : string ) : string
2084: Function PresentValue(const Rate:Extend:NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2085: Function PrimeFactors( N : Cardinal ) : TDynCardinalArray
2086: Function Printer : TPrinter
2087: Function ProcessPath2( const ABasePath:String; const APPath: String; const APPathDelim:string): string
2088: Function ProcessResponse : TIIdHTTPWhatsNext
2089: Function ProduceContent : string
2090: Function ProduceContentFromStream( Stream : TStream ) : string
2091: Function ProduceContentFromString( const S : string ) : string
2092: Function ProgIDToClassID(const ProgID: string): TGUID;
2093: Function PromptDataLinkFile( ParentHandle : THandle; InitialFile : WideString ) : WideString

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

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2179: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect
2180: Function Rect2( const ATopLeft, ABottomRight : TPoint) : TRect;
2181: Function RectAssign( const Left, Top, Right, Bottom : Integer) : TRect
2182: Function RectAssignPoints( const TopLeft, BottomRight : TPoint) : TRect
2183: Function RectBounds( const Top, Left, Bottom, Right : Integer) : TRect
2184: Function RectCenter( const R : TRect) : TPoint
2185: Function RectEqual( const R1, R2 : TRect) : Boolean
2186: Function RectHeight( const R : TRect) : Integer
2187: Function RectIncludesPoint( const R : TRect; const Pt : TPoint) : Boolean
2188: Function RectIncludesRect( const R1, R2 : TRect) : Boolean
2189: Function RectIntersection( const R1, R2 : TRect) : TRect
2190: Function RectIntersectRect( const R1, R2 : TRect) : Boolean
2191: Function RectIsEmpty( const R : TRect) : Boolean
2192: Function RectIsNull( const R : TRect) : Boolean
2193: Function RectIsSquare( const R : TRect) : Boolean
2194: Function RectisValid( const R : TRect) : Boolean
2195: Function RectsAreValid( R : array of TRect) : Boolean
2196: Function RectUnion( const R1, R2 : TRect) : TRect
2197: Function RectWidth( const R : TRect) : Integer
2198: Function RedComponent( const Color32 : TColor32) : Integer
2199: Function Refresh : Boolean
2200: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2201: Function RegisterConversionFamily( const ADescription : string) : TConvFamily
2202: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType) : Boolean;
2203: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2204: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2205: Function ReleaseDC(hdwnd: HWND; hdc: HDC): integer;
2206: Function ReleaseHandle : HBITMAP
2207: Function ReleaseHandle : HENHMETAFILE
2208: Function ReleaseHandle : HICON
2209: Function ReleasePalette : HPALETTE
2210: Function RemainderFloat( const X, Y : Float) : Float
2211: Function Remove( AClass : TClass) : Integer
2212: Function Remove( AComponent : TComponent) : Integer
2213: Function Remove( AItem : Integer) : Integer
2214: Function Remove( AItem : Pointer) : Pointer
2215: Function Remove( AItem : TObject) : TObject
2216: Function Remove( AObject : TObject) : Integer
2217: Function RemoveBackslash( const PathName : string) : string
2218: Function RemoveDF( aString : String) : String //removes thousand separator
2219: Function RemoveDir( Dir : string) : Boolean
2220: function RemoveDir(const Dir: string): Boolean
2221: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2222: Function RemoveFileExt( const FileName : string) : string
2223: Function RemoveHeaderEntry( AHeader, AEntry : string) : string
2224: Function RenameFile( OldName, NewName : string) : Boolean
2225: function RenameFile(const OldName: string; const NewName: string): Boolean
2226: Function ReplaceStr( const AText, AFromText, AToText : string) : string
2227: Function ReplaceText( const AText, AFromText, ATToText : string) : string
2228: Function Replicate(c : char;I : longInt) : String;
2229: Function Request : TWebRequest
2230: Function ResemblesText( const AText, AOther : string) : Boolean
2231: Function Reset : Boolean
2232: function Reset2(mypath: string):string;
2233: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor) : Boolean
2234: Function ResourceLoad( ResType: TResType; const Name : string; MaskColor : TColor) : Boolean
2235: Function Response : TWebResponse
2236: Function ResumeSupported : Boolean
2237: Function RETHINKHOTKEYS : BOOLEAN
2238: Function RETHINKLINES : BOOLEAN
2239: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage) : Boolean
2240: Function RetrieveCurrentDir : string
2241: Function RetrieveDeltas( const cdsArray : array of TClientDataset) : Variant
2242: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage) : Boolean
2243: Function RetrieveMailBoxSize : integer
2244: Function RetrieveMsgSize( const MsgNum : Integer) : Integer
2245: Function RetrieveProviders( const cdsArray : array of TClientDataset) : Variant
2246: Function RetrieveRaw( const MsgNum : Integer; const Dest : TString) : boolean
2247: Function ReturnMIMEType( var MediaType, EncType : String) : Boolean
2248: Function ReverseBits( Value : Byte) : Byte;
2249: Function ReverseBits1( Value : Shortint) : Shortint;
2250: Function ReverseBits2( Value : Smallint) : Smallint;
2251: Function ReverseBits3( Value : Word) : Word;
2252: Function ReverseBits4( Value : Cardinal) : Cardinal;
2253: Function ReverseBits4( Value : Integer) : Integer;
2254: Function ReverseBits5( Value : Int64) : Int64;
2255: Function ReverseBytes( Value : Word) : Word;
2256: Function ReverseBytes1( Value : Smallint) : Smallint;
2257: Function ReverseBytes2( Value : Integer) : Integer;
2258: Function ReverseBytes3( Value : Cardinal) : Cardinal;
2259: Function ReverseBytes4( Value : Int64) : Int64;
2260: Function ReverseString( const AText : string) : string
2261: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
2262: Function Revert : HRESULT
2263: Function RGB(R,G,B: Byte): TColor;
2264: Function RGB2BGR( const Color : TColor) : TColor
2265: Function RGB2TColor( R, G, B : Byte) : TColor
2266: Function RGBToWebColorName( RGB : Integer) : string

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

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2354: Function Sec( const X : Extended) : Extended
2355: Function Secant( const X : Extended) : Extended
2356: Function SecH( const X : Extended) : Extended
2357: Function SecondOf( const AValue : TDateTime) : Word
2358: Function SecondOfTheDay( const AValue : TDateTime) : LongWord
2359: Function SecondOfTheHour( const AValue : TDateTime) : Word
2360: Function SecondOfTheMinute( const AValue : TDateTime) : Word
2361: Function SecondOfTheMonth( const AValue : TDateTime) : LongWord
2362: Function SecondOfTheWeek( const AValue : TDateTime) : LongWord
2363: Function SecondOfTheYear( const AValue : TDateTime) : LongWord
2364: Function SecondsBetween( const ANow, AThen : TDateTime) : Int64
2365: Function SecondSpan( const ANow, AThen : TDateTime) : Double
2366: Function SectionExists( const Section : string) : Boolean
2367: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption) : Boolean
2368: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint) : HResult
2369: function Seek(Offset:LongInt;Origin:Word):LongInt
2370: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2371: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string;
    Options : TSelectDirExtOpts; Parent : TWInControl) : Boolean;
2372: Function SelectImage( var AFileName : string; const Extensions, Filter : string) : Boolean
2373: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2374: Function SendBuf( var Buf, Count : Integer) : Integer
2375: Function SendCmd( const AOut : string; const AResponse : SmallInt) : SmallInt;
2376: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt) : SmallInt;
2377: Function SendKey( AppName : string; Key : Char) : Boolean
2378: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2379: Function SendStream( AStream : TStream) : Boolean
2380: Function SendStreamThenDrop( AStream : TStream) : Boolean
2381: Function SendText( const S : string) : Integer
2382: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2383: Function SendSerialText(Data: String): cardinal
2384: Function Sent : Boolean
2385: Function ServicesFilePath: string
2386: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer) : TColor32
2387: Function SetBit( const Value : Byte; const Bit : TBitRange) : Byte;
2388: Function SetBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2389: Function SetBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2390: Function SetBit3( const Value : Word; const Bit : TBitRange) : Word;
2391: Function SetBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2392: Function SetBit4( const Value : Integer; const Bit : TBitRange) : Integer;
2393: Function SetBit5( const Value : Int64; const Bit : TBitRange) : Int64;
2394: Function SetClipboard( NewClipboard : TClipboard) : TClipboard
2395: Function SetColorBlue( const Color : TColor; const Blue : Byte) : TColor
2396: Function SetColorFlag( const Color : TColor; const Flag : Byte) : TColor
2397: Function SetColorGreen( const Color : TColor; const Green : Byte) : TColor
2398: Function SetColorRed( const Color : TColor; const Red : Byte) : TColor
2399: Function SetCurrentDir( Dir : string) : Boolean
2400: function SetCurrentDir(const Dir: string): Boolean
2401: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2402: Function SetDirCreation( const DirName : string; const DateTime : TDateTime) : Boolean
2403: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime) : Boolean
2404: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime) : Boolean
2405: Function SetDisplayResolution( const XRes, YRes : DWORD) : Longint
2406: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2407: Function SetEnvironmentVar( const Name, Value : string) : Boolean
2408: Function SetErrorProc( ErrorProc : TSocketErrorProc) : TSocketErrorProc
2409: Function SetFileCreation( const FileName : string; const DateTime : TDateTime) : Boolean
2410: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime) : Boolean
2411: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime) : Boolean
2412: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer) : Boolean
2413: function SETFOCUSEDCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2414: Function SetLocalTime( Value : TDateTime) : boolean
2415: Function SetPrecisionTolerance( NewTolerance : Float) : Float
2416: Function SetPrinter( NewPrinter : TPrinter) : TPrinter
2417: Function SetRGBValue( const Red, Green, Blue : Byte) : TColor
2418: Function SetSequence( S, Localizar, Substituir : shortstring) : shortstring
2419: Function SetSize( libNewSize : Longint) : HResult
2420: Function SetUserObjectFullAccess( hUserObject : THandle) : Boolean
2421: Function Sgn( const X : Extended) : Integer
2422: function SHA1(const fileName: string): string;
2423: function SHA256(astr: string; amode: char): string
2424: function SHA512(astr: string; amode: char): string
2425: Function ShareMemoryManager : Boolean
2426: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2427: function ShellExecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2428: Function ShellExecute3(aFilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2429: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE) : TSHORTCUT
2430: Function SHORTCUTTOTEXT( SHORTCUT : TSHORTCUT) : String
2431: function ShortDateFormat: string;
2432: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
    RTL:Boolean;EllipsisWidth:Int):WideString
2433: function ShortTimeFormat: string;
2434: function SHOWMODAL:INTEGER
2435: function ShowWindow(C1: HWND; C2: integer): boolean;
2436: procedure ShowMemory //in Dialog
2437: function ShowMemory2: string;
2438: Function ShutDownOS : Boolean
2439: Function Signe( const X, Y : Extended) : Extended
2440: Function Sign( const X : Extended) : Integer

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2441: Function Sin(e : Extended) : Extended;
2442: Function sinc( const x : Double) : Double
2443: Function SinJ( X : Float) : Float
2444: Function Size( const AFileName : String) : Integer
2445: function SizeOf: Longint;
2446: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer
2447: function SlashSep(const Path, S: String): String
2448: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended
2449: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
2450: Function SmallPoint(X, Y: Integer): TSmallPoint)
2451: Function Soundex( const AText : string; ALength : TSoundexLength) : string
2452: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength) : Integer
2453: Function SoundexInt( const AText : string; ALength : TSoundexIntLength) : Integer
2454: Function SoundexProc( const AText, AOther : string) : Boolean
2455: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength) : Boolean
2456: Function SoundexWord( const AText : string) : Word
2457: Function SourcePos : Longint
2458: function SourcePos:Longint
2459: Function Split0( Str : string; const substr : string) : TStringList
2460: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
2461: Function SQLRequiresParams( const SQL : WideString) : Boolean
2462: Function Sqr(e : Extended) : Extended;
2463: Function Sqrt(e : Extended) : Extended;
2464: Function StartIP : String
2465: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean
2466: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2467: Function StartOfADay1( const AYear, ADayOfYear : Word) : TDateTime;
2468: Function StartOfAMonth( const AYear, AMonth : Word) : TDateTime
2469: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2470: Function StartOfAYear( const AYear : Word) : TDateTime
2471: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2472: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2473: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2474: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2475: Function StartsStr( const ASubText, AText : string) : Boolean
2476: Function StartsText( const ASubText, AText : string) : Boolean
2477: Function StartsWith( const ANSIStr, APattern : String) : Boolean
2478: Function StartsWith( const str : string; const sub : string) : Boolean
2479: Function StartsWithACE( const ABytes : TIdBytes) : Boolean
2480: Function StatusString( StatusCode : Integer) : string
2481: Function StdDev( const Data : array of Double) : Extended
2482: Function Stop : Float
2483: Function StopCount( var Counter : TJclCounter) : Float
2484: Function StoreColumns : Boolean
2485: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2486: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2487: Function StrAlloc( Size : Cardinal) : PChar
2488: function StrAlloc(Size: Cardinal): PChar)
2489: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2490: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2491: Function StrBufSize( Str : PChar) : Cardinal
2492: function StrBufSize(const Str: PChar): Cardinal)
2493: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType
2494: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType)
2495: Function StrCat( Dest : PChar; Source : PChar) : PChar
2496: function StrCat(Dest: PChar; const Source: PChar): PChar)
2497: Function StrCharLength( Str : PChar) : Integer
2498: Function StrComp( Str1, Str2 : PChar) : Integer
2499: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2500: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2501: function StrCopy(Dest: PChar; const Source: PChar): PChar)
2502: Function Stream_to_AnsiString( Source : TStream) : ansistring
2503: Function Stream_to_Base64( Source : TStream) : ansistring
2504: Function Stream_to_decimalbytes( Source : TStream) : string
2505: Function Stream2WideString( oStream : TStream) : WideString
2506: Function StreamtoAansiString( Source : TStream) : ansistring
2507: Function StreamToByte( Source : TStream) : string
2508: Function StreamToDecimalbytes( Source : TStream) : string
2509: Function StreamtoOrd( Source : TStream) : string
2510: Function StreamToString( Source : TStream) : string
2511: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2512: Function StrEmpty( const sString : string) : boolean
2513: Function StrEnd( Str : PChar) : PChar
2514: function StrEnd(const Str: PChar): PChar)
2515: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2516: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar)
2517: Function StrGet(var S : String; I : Integer) : Char;
2518: Function StrGet2(S : String; I : Integer) : Char;
2519: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2520: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2521: Function StrHtmlDecode( const AStr : String) : String
2522: Function StrHtmlEncode( const AStr : String) : String
2523: Function StrToBytes(const Value: String): TBytes;
2524: Function StrIComp( Str1, Str2 : PChar) : Integer
2525: Function StringOfChar(c : char;I : longInt) : String;
2526: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2527: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2528: Function StringRefCount(const s: String): integer;
2529: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string

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2530: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2531: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2532: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2533: Function StringToBoolean( const Ps : string) : Boolean
2534: function StringToColor(const S: string): TColor
2535: function StringToCursor(const S: string): TCursor;
2536: function StringToGUID(const S: string): TGUID)
2537: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2538: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2539: Function StringWidth( S : string) : Integer
2540: Function StrInternetToDateTIme( Value : string) : TDateTIme
2541: Function StrIsDateTIme( const Ps : string) : Boolean
2542: Function StrIsFloatMoney( const Ps : string) : Boolean
2543: Function StrIsInteger( const S : string) : Boolean
2544: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2545: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2546: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2547: Function StrLen( Str : PChar) : Cardinal
2548: function StrLen(const Str: PChar): Cardinal)
2549: Function StrLessPrefix( const sString : string; const sPrefix : string) : string
2550: Function StrLessSuffix( const sString : string; const sSuffix : string) : string
2551: Function StrLIComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2552: Function StrLower( Str : PChar) : PChar
2553: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal) : PChar
2554: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar)
2555: Function StrNew( Str : PChar) : PChar
2556: function StrNew(const Str: PChar): PChar)
2557: Function StrNextChar( Str : PChar) : PChar
2558: Function StrPad( const sString : string; const sPad : string; const iLength : integer) : string
2559: Function StrParse( var sString : string; const sDelimiters : string) : string;
2560: Function StrParse1( var sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2561: Function StrPas( Str : PChar) : string
2562: function StrPas(const Str: PChar): string)
2563: Function StrPCopy( Dest : PChar; Source : string) : PChar
2564: function StrPBCopy(Dest: PChar; const Source: string): PChar)
2565: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal) : PChar
2566: Function StrPos( Str1, Str2 : PChar) : PChar
2567: Function StrScan(const Str: PChar; Chr: Char): PChar)
2568: Function StrRScan(const Str: PChar; Chr: Char): PChar)
2569: Function StrToBcd( const AValue : string) : TBcd
2570: Function StrToBool( S : string) : Boolean
2571: Function StrToBoolDef( S : string; Default : Boolean) : Boolean
2572: Function StrToCard( const AStr : String) : Cardinal
2573: Function StrToConv( AText : string; out AType : TConvType) : Double
2574: Function StrToCurr( S : string) : Currency;
2575: function StrToCurrDef( const S: string): Currency)
2576: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2577: Function StrToDate( S : string) : TDateTIme;
2578: function StrToDateDef( const s: string): TDateTIme;
2579: Function StrToDateDef( S : string; Default : TDateTIme) : TDateTIme;
2580: Function StrToDateTIme( S : string) : TDateTIme;
2581: function StrToDateTImeDef( const S: string): TDateTIme)
2582: Function StrToDateTImeDef( S : string; Default : TDateTIme) : TDateTIme;
2583: Function StrToDay( const ADay : string) : Byte
2584: Function StrToFloat( S : string) : Extended;
2585: function StrToFloat(s: String): Extended;
2586: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2587: function StrToFloatDef(const S: string; const Default: Extended): Extended)
2588: Function StrToFloat( S : string) : Extended;
2589: Function StrToFloat2( S : string; FormatSettings : TFormatSettings) : Extended;
2590: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2591: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2592: Function StrToCurr( S : string) : Currency;
2593: Function StrToCurr2( S : string; FormatSettings : TFormatSettings) : Currency;
2594: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2595: Function StrToCurrDef2( S : string; Default : Currency;FormatSettings : TFormatSettings) : Currency;
2596: Function StrToTime2( S : string; FormatSettings : TFormatSettings) : TDateTIme;
2597: Function StrToTimeDef( S : string; Default : TDateTIme) : TDateTIme;
2598: Function StrToTimeDef2( S : string; Default : TDateTIme; FormatSettings:TFormatSettings):TDateTIme;
2599: Function TryStrToTime( S : string; Value : TDateTIme) : Boolean;
2600: Function StrToDateTIme( S : string) : TDateTIme;
2601: Function StrToDateTIme2( S : string; FormatSettings : TFormatSettings) : TDateTIme;
2602: Function StrToDateTImeDef( S : string; Default : TDateTIme) : TDateTIme;
2603: Function StrToFloatRegionalIndependent(aValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2604: Function StrToInt( S : string) : Integer
2605: function StrToInt(s: String): Longint;
2606: Function StrToInt64( S : string) : Int64
2607: function StrToInt64(s: String): int64;
2608: Function StrToInt64Def( S : string; Default : Int64) : Int64
2609: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2610: Function StrToIntDef( S : string; Default : Integer) : Integer
2611: function StrToIntDef(const S: string; Default: Integer): Integer)
2612: function StrToIntDef(s: String; def: Longint): Longint;
2613: Function StrToMonth( const AMonth : string) : Byte
2614: Function StrToTime( S : string) : TDateTIme;
2615: function StrToTime(const S: string): TDateTIme)
2616: Function StrToTimeDef( S : string; Default : TDateTIme) : TDateTIme;
2617: Function StrToWord( const Value : String) : Word
2618: Function StrToXmlDate( const DateStr : string; const Format : string) : string

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2619: Function StrToXmlDateTime( const DateStr : string; const Format : string) : string
2620: Function StrToXmlTime( const TimeStr : string; const Format : string) : string
2621: Function StrUpper( Str : PChar) : PChar
2622: Function StuffString( const AText : string; AStart, ALen : Cardinal; const ASubText : string) : string
2623: Function Sum( const Data : array of Double) : Extended
2624: Function SumFloatArray( const B : TDynFloatArray) : Float
2625: Function SumInt( const Data : array of Integer) : Integer
2626: Function SumOfSquares( const Data : array of Double) : Extended
2627: Function SumPairProductFloatArray( const X, Y : TDynFloatArray) : Float
2628: Function SumSquareDiffFloatArray( const B : TDynFloatArray; Diff : Float) : Float
2629: Function SumSquareFloatArray( const B : TDynFloatArray) : Float
2630: Function Supports( CursorOptions : TCursorOptions) : Boolean
2631: Function SupportsClipboardFormat( AFormat : Word) : Boolean
2632: Function SwapWord(w : word): word)
2633: Function SwapInt(i : integer): integer)
2634: Function SwapLong(L : longint): longint)
2635: Function Swap(i : integer): integer)
2636: Function SYDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer) : Extended
2637: Function SyncTime : Boolean
2638: Function SysErrorMessage( ErrorCode : Integer) : string
2639: function SysErrorMessage(ErrorCode: Integer): string)
2640: Function SystemTimeToDateTIme( SystemTime : TSystemTime) : TDateTime
2641: function SystemTimeToDateTIme(const SystemTime: TSystemTime): TDateTime;
2642: Function SysStringLen(const S: WideString): Integer; stdcall;
2643: Function TabRect( Index : Integer) : TRect
2644: Function Tan( const X : Extended) : Extended
2645: Function TaskMessageDlg(const Title,
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2646: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; DefaultButton : TMsgDlgBtn) : Integer;
2647: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; X, Y : Integer) : Integer;
2648: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn) : Integer;
2649: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
  TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string) : Integer;
2650: Function TaskMessageDlgPosHelp1(const Title, Msg:string;DlgType: TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2651: Function TenToY( const Y : Float) : Float
2652: Function TerminateApp( ProcessID : DWORD; Timeout : Integer) : TJclTerminateAppResult
2653: Function TerminateTask( Wnd : HWND; Timeout : Integer) : TJclTerminateAppResult
2654: Function TestBit( const Value : Byte; const Bit : TBitRange) : Boolean;
2655: Function TestBit2( const Value : Shortint; const Bit : TBitRange) : Boolean;
2656: Function TestBit3( const Value : Smallint; const Bit : TBitRange) : Boolean;
2657: Function TestBit4( const Value : Word; const Bit : TBitRange) : Boolean;
2658: Function TestBit5( const Value : Cardinal; const Bit : TBitRange) : Boolean;
2659: Function TestBit6( const Value : Integer; const Bit : TBitRange) : Boolean;
2660: Function TestBit7( const Value : Int64; const Bit : TBitRange) : Boolean;
2661: Function TestBits( const Value, Mask : Byte) : Boolean;
2662: Function TestBits1( const Value, Mask : Shortint) : Boolean;
2663: Function TestBits2( const Value, Mask : Smallint) : Boolean;
2664: Function TestBits3( const Value, Mask : Word) : Boolean;
2665: Function TestBits4( const Value, Mask : Cardinal) : Boolean;
2666: Function TestBits5( const Value, Mask : Integer) : Boolean;
2667: Function TestBits6( const Value, Mask : Int64) : Boolean;
2668: Function TestFDIVInstruction : Boolean
2669: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2670: Function TextExtent( const Text : string) : TSize
2671: function TextHeight(Text: string): Integer;
2672: Function TextIsSame( const A1 : string; const A2 : string) : Boolean
2673: Function TextStartsWith( const S, SubS : string) : Boolean
2674: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean)
2675: Function ConvInteger(i : integer):string;
2676: Function IntegerToText(i : integer):string;
2677: Function TEXTTOSHORTCUT( TEXT : String) : TSHORTCUT
2678: function TextWidth(Text: string): Integer;
2679: Function ThreadCount : integer
2680: function ThousandSeparator: char;
2681: Function Ticks : Cardinal
2682: Function Time : TDateTime
2683: function Time: TDateTime;
2684: function TimeGetTime: int64;
2685: Function TimeOf( const AValue : TDateTime) : TDateTime
2686: function TimeSeparator: char;
2687: function TimeStampToDateTIme(const TimeStamp: TTimeStamp): TDateTime
2688: Function TimeStampToMSEcs( TimeStamp : TTimeStamp) : Comp
2689: function TimeStampToMSEcs(const TimeStamp: TTimeStamp): Comp)
2690: Function TimeToStr( DateTime : TDateTime) : string;
2691: function TimeToStr(const DateTime: TDateTime): string;
2692: Function TimeZoneBias : TDateTime
2693: Function ToCommon( const AValue : Double) : Double
2694: function ToCommon(const AValue: Double): Double;
2695: Function Today : TDateTime
2696: Function ToggleBit( const Value : Byte; const Bit : TBitRange) : Byte;
2697: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2698: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2699: Function ToggleBit3( const Value : Word; const Bit : TBitRange) : Word;
2700: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2701: Function ToggleBit5( const Value : Integer; const Bit : TBitRange) : Integer;

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2702: Function ToggleBit6( const Value : Int64; const Bit : TBitRange) : Int64;
2703: function TokenComponentIdent:String
2704: Function TokenFloat : Extended
2705: function TokenFloat:Extended
2706: Function TokenInt : Longint
2707: function TokenInt:LongInt
2708: Function TokenString : string
2709: function TokenString:String
2710: Function TokenSymbolIs( const S : string) : Boolean
2711: function TokenSymbolIs(S:String):Boolean
2712: Function Tomorrow : TDateTime
2713: Function ToRightOf( const pc : TControl; piSpace : Integer) : Integer
2714: Function ToString : string
2715: Function TotalVariance( const Data : array of Double) : Extended
2716: Function Trace2( AURL : string) : string;
2717: Function TrackMenu( Button : TToolButton) : Boolean
2718: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN) : INTEGER
2719: Function TranslateURI( const URI : string) : string
2720: Function TranslationMatchesLanguages( Exact : Boolean) : Boolean
2721: Function TransparentStretchBlt( DstDC : HDC;DstX,DstY,DstW,DstH:Integer;SrcDC:HDC;SrcX,SrcY,SrcW,SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer) : Boolean
2722: Function Trim( S : string) : string;
2723: Function Trim( S : WideString) : WideString;
2724: Function Trim(s : AnyString) : AnyString;
2725: Function TrimAllOf( ATrim, AText : String) : String
2726: Function TrimLeft( S : string) : string;
2727: Function TrimLeft( S : WideString) : WideString;
2728: function TrimLeft(const S: string): string
2729: Function TrimRight( S : string) : string;
2730: Function TrimRight( S : WideString) : WideString;
2731: function TrimRight(const S: string): string
2732: function TrueBoolStrs: array of string
2733: Function Trunc(e : Extended) : Longint;
2734: Function Trunc64(e: extended): Int64;
2735: Function TruncPower( const Base, Exponent : Float) : Float
2736: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily) : Boolean;
2737: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily) : Boolean;
2738: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2739: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime) : Boolean
2740: Function TryEncodeDateMonthWeek( const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2741: Function TryEncodeDateTime( const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out
    AValue:TDateTime):Boolean
2742: Function TryEncodeDateWeek( const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2743: Function TryEncodeDayOfWeekInMonth( const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
    AVal:TDateTime):Bool
2744: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2745: Function TryFloatToDate( Value : Extended; AResult : TDateTime) : Boolean
2746: Function TryJulianDateToDate( const AValue : Double; out ADateTime : TDateTime) : Boolean
2747: Function TryLock : Boolean
2748: Function TryModifiedJulianDateToDate( const AValue : Double; out ADateTime : TDateTime) : Boolean
2749: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
    AMilliSecond : Word; out AResult : TDateTime) : Boolean
2750: Function TryStrToBcd( const AValue : string; var Bcd : BCd) : Boolean
2751: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType) : Boolean
2752: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2753: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2754: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2755: Function TryStrToInt( const S: AnsiString; var I: Integer): Boolean;
2756: Function TryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2757: Function TwoByteToWord( AByte1, AByte2 : Byte) : Word
2758: Function TwoCharToWord( AChar1, AChar2 : Char) : Word
2759: Function TwoToY( const Y : Float) : Float
2760: Function UCS4StringToWideString( const S : UCS4String) : WideString
2761: Function UIDL( const ADest : TStrings; const AMsgNum : Integer) : Boolean
2762: function Unassigned: Variant;
2763: Function UndoLastChange( FollowChange : Boolean) : Boolean
2764: function UniCodeToStr(Value: string): string;
2765: Function UnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
2766: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean
2767: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal) : TDateTime
2768: Function UnixPathToDosPath( const Path : string) : string
2769: Function UnixToDateTime( const AValue : Int64) : TDateTime
2770: function UnixToDateTime(U: Int64): TDateTime;
2771: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
2772: Function UnlockResource( ResData : HGLOBAL) : LongBool
2773: Function UnlockVolume( var Handle : THandle) : Boolean
2774: Function UnMaskString( Mask, Value : String) : String
2775: function UpCase(ch : Char ) : Char;
2776: Function UpCaseFirst( const AStr : string) : string
2777: Function UpCaseFirstWord( const AStr : string) : string
2778: Function UpdateAction( Action : TBasicAction) : Boolean
2779: Function UpdateKind : TUpdateKind
2780: Function UPDATESTATUS : TUPDATESTATUS
2781: Function UpperCase( S : string) : string
2782: Function Uppercase(s : AnyString) : AnyString;
2783: Function URLDecode( ASrc : string) : string
2784: Function URLEncode( const ASrc : string) : string
2785: Function UseRightToLeftAlignment : Boolean
2786: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment) : Boolean

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2787: Function UseRightToLeftReading : Boolean
2788: Function UTF8CharLength( Lead : Char ) : Integer
2789: Function UTF8CharSize( Lead : Char ) : Integer
2790: Function UTF8Decode( const S : UTF8String ) : WideString
2791: Function UTF8Encode( const WS : WideString ) : UTF8String
2792: Function UTF8LowerCase( const S : UTF8String ) : UTF8String
2793: Function Utf8ToAnsi( const S : UTF8String ) : string
2794: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string
2795: Function UTF8UpperCase( const S : UTF8String ) : UTF8String
2796: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean
2797: Function ValidParentForm(control: TControl): TForm
2798: Function Value : Variant
2799: Function ValueExists( const Section, Ident : string ) : Boolean
2800: Function ValueOf( const Key : string ) : Integer
2801: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2802: Function VALUEOFTKEY( const AKEY : VARIANT ) : VARIANT
2803: Function VarArrayFromStrings( Strings : TStrings ) : Variant
2804: Function VarArrayFromWideStrings( Strings : TWideStrings ) : Variant
2805: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2806: Function VarFMTBcd : TVarType
2807: Function VarFMTBcdCreate1 : Variant;
2808: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word ) : Variant;
2809: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word ) : Variant;
2810: Function VarFMTBcdCreate4( const ABCD : TBcd ) : Variant;
2811: Function Variance( const Data : array of Double ) : Extended
2812: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
2813: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant
2814: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
2815: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
2816: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
2817: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
2818: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
2819: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
2820: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
2821: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
2822: Function VariantNeg( const V1 : Variant ) : Variant
2823: Function VariantNot( const V1 : Variant ) : Variant
2824: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
2825: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
2826: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
2827: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
2828: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
2829: function VarIsEmpty(const V: Variant): Boolean;
2830: Function VarIsFMTBcd( const AValue : Variant ) : Boolean;
2831: function VarIsNull(const V: Variant): Boolean;
2832: Function VarToBcd( const AValue : Variant ) : TBcd
2833: function VarType(const V: Variant): TVarType;
2834: Function VarType( const V : Variant ) : TVarType
2835: Function VarAsType( const V : Variant; AVarType : TVarType ) : Variant
2836: Function VarIsType( const V : Variant; AVarType : TVarType ) : Boolean;
2837: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType ) : Boolean;
2838: Function VarIsByRef( const V : Variant ) : Boolean
2839: Function VarIsEmpty( const V : Variant ) : Boolean
2840: Procedure VarCheckEmpty( const V : Variant )
2841: Function VarIsNull( const V : Variant ) : Boolean
2842: Function VarIsClear( const V : Variant ) : Boolean
2843: Function VarIsCustom( const V : Variant ) : Boolean
2844: Function VarIsOrdinal( const V : Variant ) : Boolean
2845: Function VarIsFloat( const V : Variant ) : Boolean
2846: Function VarIsNumeric( const V : Variant ) : Boolean
2847: Function VarIsStr( const V : Variant ) : Boolean
2848: Function VarToStr( const V : Variant ) : string
2849: Function VarToStrDef( const V : Variant; const ADefault : string ) : string
2850: Function VarToWideStr( const V : Variant ) : WideString
2851: Function VarToWideStrDef( const V : Variant; const ADefault : WideString ) : WideString
2852: Function VarToDateTIme( const V : Variant ) : TDateTIme
2853: Function VarFromDateTIme( const DateTIme : TDateTIme ) : Variant
2854: Function VarInRange( const AValue, AMin, AMax : Variant ) : Boolean
2855: Function VarEnsureRange( const AValue, AMin, AMax : Variant ) : Variant
2856: TVariantRelationship', '( vrEqual, vrLessThan, vrGreater Than, vrNotEqual )
2857: Function VarSameValue( const A, B : Variant ) : Boolean
2858: Function VarCompareValue( const A, B : Variant ) : TVariantRelationship
2859: Function VarIsEmptyParam( const V : Variant ) : Boolean
2860: Function VarIsError( const V : Variant; out AResult : HRESULT ) : Boolean;
2861: Function VarIsError1( const V : Variant ) : Boolean;
2862: Function VarAsError( AResult : HRESULT ) : Variant
2863: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant)
2864: Function VarIsArray( const A : Variant ) : Boolean;
2865: Function VarIsArray1( const A : Variant; AResolveByRef : Boolean ) : Boolean;
2866: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType ) : Variant
2867: Function VarArrayOf( const Values : array of Variant ) : Variant
2868: Function VarArrayRef( const A : Variant ) : Variant
2869: Function VarTypeIsValidArrayType( const AVarType : TVarType ) : Boolean
2870: Function VarTypeIsValidElementType( const AVarType : TVarType ) : Boolean
2871: Function VarArrayDimCount( const A : Variant ) : Integer
2872: Function VarArrayLowBound( const A : Variant; Dim : Integer ) : Integer
2873: Function VarArrayHighBound( const A : Variant; Dim : Integer ) : Integer
2874: Function VarArrayLock( const A : Variant ) : __Pointer
2875: Procedure VarArrayUnlock( const A : Variant )

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2876: Function VarArrayGet( const A : Variant; const Indices : array of Integer ) : Variant
2877: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer )
2878: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer )
2879: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer )
2880: Function Unassigned : Variant
2881: Function Null : Variant
2882: Function VectorAdd( const V1, V2 : TFloatPoint ) : TFfloatPoint
2883: function VectorAdd(const V1,V2: TFfloatPoint): TFfloatPoint;
2884: Function VectorDot( const V1, V2 : TFfloatPoint ) : Double
2885: function VectorDot(const V1,V2: TFfloatPoint): Double;
2886: Function VectorLengthSqr( const V : TFfloatPoint ) : Double
2887: function VectorLengthSqr(const V: TFfloatPoint): Double;
2888: Function VectorMult( const V : TFfloatPoint; const s : Double ) : TFfloatPoint
2889: function VectorMult(const V: TFfloatPoint; const s: Double): TFfloatPoint;
2890: Function VectorSubtract( const V1, V2 : TFfloatPoint ) : TFfloatPoint
2891: function VectorSubtract(const V1,V2: TFfloatPoint): TFfloatPoint;
2892: Function Verify( AUserName : String ) : String
2893: Function Versine( X : Float ) : Float
2894: function VersionCheck: boolean;
2895: Function VersionLanguageId( const LangIdRec : TLangIdRec ) : string
2896: Function VersionLanguageName( const LangId : Word ) : string
2897: Function VersionResourceAvailable( const FileName : string ) : Boolean
2898: Function Visible : Boolean
2899: function VolumeID(DriveChar: Char): string
2900: Function WaitFor( const AString : string ) : string
2901: Function WaitFor( const TimeOut : Cardinal ) : TJclWaitResult
2902: Function WaitForI : TWaitResult;
2903: Function WaitForData( Timeout : Longint ) : Boolean
2904: Function WebColorNameToColor( WebColorName : string ) : TColor
2905: Function WebColorStrToColor( WebColor : string ) : TColor
2906: Function WebColorToRGB( WebColor : Integer ) : Integer
2907: Function wGet(aURL, afile: string): boolean;'
2908: Function wGet2(aURL, afile: string): boolean; //without file open
2909: Function WebGet(aURL, afile: string): boolean;
2910: Function WebExists: boolean; //alias to isinternet
2911: Function WeekOf( const AValue : TDateTime ) : Word
2912: Function WeekOfTheMonth( const AValue : TDateTime ) : Word;
2913: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word ) : Word;
2914: Function WeekOfTheYear( const AValue : TDateTime ) : Word;
2915: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word ) : Word;
2916: Function WeeksBetween( const ANow, AThen : TDateTime ) : Integer
2917: Function WeeksInAYear( const AYear : Word ) : Word
2918: Function WeeksInYear( const AValue : TDateTime ) : Word
2919: Function WeekSpan( const ANow, AThen : TDateTime ) : Double
2920: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineBreakStyle ) : WideString
2921: Function WideCat( const x, y : WideString ) : WideString
2922: Function WideCompareStr( S1, S2 : WideString ) : Integer
2923: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2924: Function WideCompareText( S1, S2 : WideString ) : Integer
2925: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2926: Function WideCopy( const src : WideString; index, count : Integer ) : WideString
2927: Function WideDequotedStr( const S : WideString; AQuote : WideChar ) : WideString
2928: Function WideEqual( const x, y : WideString ) : Boolean
2929: function WideFormat(const Format: WideString; const Args: array of const): WideString)
2930: Function WideGreater( const x, y : WideString ) : Boolean
2931: Function Widelength( const src : WideString ) : Integer
2932: Function WideLess( const x, y : WideString ) : Boolean
2933: Function WideLowerCase( S : WideString ) : WideString
2934: function WideLowerCase(const S: WideString): WideString)
2935: Function WidePos( const src, sub : WideString ) : Integer
2936: Function WideQuotedStr( const S : WideString; Quote : WideChar ) : WideString
2937: Function WideReplaceStr( const AText, AFromText, AToText : WideString ) : WideString
2938: Function WideReplaceText( const AText, AFromText, AToText : WideString ) : WideString
2939: Function WideSameStr( S1, S2 : WideString ) : Boolean
2940: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
2941: Function WideSameText( S1, S2 : WideString ) : Boolean
2942: function WideSameText(const S1: WideString; const S2: WideString): Boolean
2943: Function WideStringReplace(const S,OldPattern, NewPattern: WideString; Flags: TReplaceFlags): WideString
2944: Function WideStringToUCS4String( const S : WideString ) : UCS4String
2945: Function WideUpperCase( S : WideString ) : WideString
2946: Function Win32BackupFile( const FileName : string; Move : Boolean ) : Boolean
2947: function Win32Check(RetVal: boolean): boolean
2948: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
2949: Function Win32RestoreFile( const FileName : string ) : Boolean
2950: Function Win32Type : TIdWin32Type
2951: Function WinColor( const Color32 : TColor32 ) : TColor
2952: function winexec(FileName: pchar; showCmd: integer): integer;
2953: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
2954: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
2955: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer ) : Boolean
2956: Function WithinPastHours( const ANow, ATThen : TDateTime; const AHours : Int64 ) : Boolean
2957: Function WithinPastMilliseconds( const ANow, ATThen : TDateTime; const AMilliseconds : Int64 ) : Boolean
2958: Function WithinPastMinutes( const ANow, ATThen : TDateTime; const AMinutes : Int64 ) : Boolean
2959: Function WithinPastMonths( const ANow, ATThen : TDateTime; const AMonths : Integer ) : Boolean
2960: Function WithinPastSeconds( const ANow, ATThen : TDateTime; const ASeconds : Int64 ) : Boolean
2961: Function WithinPastWeeks( const ANow, ATThen : TDateTime; const AWeeks : Integer ) : Boolean
2962: Function WithinPastYears( const ANow, ATThen : TDateTime; const AYears : Integer ) : Boolean
2963: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar ) : DWORD
2964: Function WordToStr( const Value : Word ) : String

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2965: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint ) : Boolean
2966: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string ) : Boolean
2967: Procedure GetWordGridFormatValues( Proc : TGetStrProc )
2968: Function WorkArea : Integer
2969: Function WrapText( Line : string; MaxCol : Integer ) : string;
2970: Function WrapText( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer ) : string;
2971: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint ) : HResult
2972: function Write(Buffer:String;Count:LongInt):LongInt
2973: Function WriteClient( var Buffer, Count : Integer ) : Integer
2974: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean ) : Cardinal
2975: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string ) : Boolean
2976: Function WriteString( const AString : string ) : Boolean
2977: Function WStrGet( var S : AnyString; I : Integer ) : WideChar;
2978: Function vvsprintf( Output : PChar; Format : PChar; arglist : va_list ) : Integer
2979: Function wsprintf( Output : PChar; Format : PChar ) : Integer
2980: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string ) : string
2981: Function XmlTimeToStr( const XmlTime : string; const Format : string ) : string
2982: Function XorDecode( const Key, Source : string ) : string
2983: Function XorEncode( const Key, Source : string ) : string
2984: Function XorString( const Key, Src : ShortString ) : ShortString
2985: Function Yield : Bool
2986: Function YearOf( const AValue : TDateTime ) : Word
2987: Function YearsBetween( const ANow, AThen : TDateTime ) : Integer
2988: Function YearSpan( const ANow, AThen : TDateTime ) : Double
2989: Function Yesterday : TDateTime
2990: Function YesNoDialog( const ACaption, AMsg: string): boolean;
2991: Function( const Name : string; Proc : TUserFunction)
2992: Function using Special_Scholz from 3.8.5.0
2993: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
2994: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
2995: Function FloatToTime2Dec(value:Extended):Extended;
2996: Function MinToStd(value:Extended):Extended;
2997: Function MinToStdAsString(value:Extended):String;
2998: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
2999: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3000: Function Round2Dec (zahl:Extended):Extended;
3001: Function GetAngle(x,y:Extended):Double;
3002: Function AddAngle(a1,a2:Double):Double;
3003:
3004: ****
3005: unit uPSI_StText;
3006: ****
3007: Function TextSeek( var F : TextFile; Target : LongInt ) : Boolean
3008: Function TextFileSize( var F : TextFile ) : LongInt
3009: Function TextPos( var F : TextFile ) : LongInt
3010: Function TextFlush( var F : TextFile ) : Boolean
3011:
3012: ****
3013: from JvVCLUtils;
3014: ****
3015: { Windows resources (bitmaps and icons) VCL-oriented routines }
3016: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3017: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX,
  DstY:Int;SrcRect:TRect;Bitmap:TBitmap;TransparColor:TColor);
3018: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3019: function MakeBitmap(ResID: PChar): TBitmap;
3020: function MakeBitmapID(ResID: Word): TBitmap;
3021: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3022: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3023: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3024: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3025: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3026: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3028: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3029: {$IFDEF WIN32}
3030: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
  X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3032: {$ENDIF}
3033: function MakeIcon(ResID: PChar): TIcon;
3034: function MakeIconID(ResID: Word): TIcon;
3035: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3036: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3037: {$IFDEF WIN32}
3038: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3039: {$ENDIF}
3040: { Service routines }
3041: procedure NotImplemented;
3042: procedure ResourceNotFound(ResID: PChar);
3043: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3044: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3045: function PaletteColor(Color: TColor): Longint;
3046: function WidthOf(R: TRect): Integer;
3047: function HeightOf(R: TRect): Integer;
3048: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3049: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3050: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3051: procedure Delay(MSecs: Longint);

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3052: procedure CenterControl(Control: TControl);
3053: Function PaletteEntries( Palette : HPALETTE) : Integer
3054: Function WindowClassName( Wnd : HWND) : string
3055: Function ScreenWorkArea : TRect
3056: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3057: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean)
3058: Procedure ActivateWindow( Wnd : HWND)
3059: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer)
3060: Procedure CenterWindow( Wnd : HWND)
3061: Procedure ShadeRect( DC : HDC; const Rect : TRect)
3062: Procedure KillMessage( Wnd : HWND; Msg : Cardinal)
3063: Function DialogsToPixelsX( Dlgs : Word) : Word
3064: Function DialogsToPixelsY( Dlgs : Word) : Word
3065: Function PixelsToDialogsX( Pixels : Word) : Word
3066: Function PixelsToDialogsY( Pixels : Word) : Word
3067: {$IFDEF WIN32}
3068: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3069: function MakeVariant(const Values: array of Variant): Variant;
3070: {$ENDIF}
3071: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3072: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3073: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3074: {$IFDEF CBuilder}
3075: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3076: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3077: {$ELSE}
3078: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3079: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3080: {$ENDIF CBuilder}
3081: function IsForegroundTask: Boolean;
3082: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3083: function GetAveCharSize(Canvas: TCanvas): TPoint;
3084: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3085: procedure FreeUnusedOle;
3086: procedure Beep;
3087: function GetWindowsVersionJ: string;
3088: function LoadDLL(const LibName: string): THandle;
3089: function RegisterServer(const ModuleName: string): Boolean;
3090: {$IFDEF WIN32}
3091: function IsLibrary: Boolean;
3092: {$ENDIF}
3093: { Gradient filling routine }
3094: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3095: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3096: { String routines }
3097: function GetEnvVar(const VarName: string): string;
3098: function AnsiUpperFirstChar(const S: string): string;
3099: function StringToPChar(var S: string): PChar;
3100: function StrAlloc(const S: string): PChar;
3101: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3102: function DropT(const S: string): string;
3103: { Memory routines }
3104: function AllocMemo(Size: Longint): Pointer;
3105: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3106: procedure FreeMemo(var fpBlock: Pointer);
3107: function GetMemoSize(fpBlock: Pointer): Longint;
3108: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3109: {$IFNDEF COMPILER5_UP}
3110: procedure FreeAndNil(var Obj);
3111: {$ENDIF}
3112: // from PNGLoader
3113: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3114: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3115: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3116: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3117: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3118: Function IsAnAllResult( const AModalResult : TModalResult ) : Boolean
3119: Function InitWndProc( HWindow : HWnd; Message, WParam : Longint; LParam : Longint ) : Longint
3120: AddConstantN('CTL3D_ALL','LongWord').SetUInt($FFFF);
3121: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment )
3122: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint ) : Longint
3123: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3124: Procedure SetIMEMode( hWnd : HWND; Mode : TImeMode)
3125: Procedure SetIMEName( Name : TImeName)
3126: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean) : Boolean
3127: Function Imm32GetContext( hWnd : HWND ) : HIMC
3128: Function Imm32ReleaseContext( hWnd : HWND; hImc : HIMC ) : Boolean
3129: Function Imm32GetConversionStatus( hImc : HIMC; var Conversion, Sentence : longword ) : Boolean
3130: Function Imm32SetConversionStatus( hImc : HIMC; Conversion, Sentence : longword ) : Boolean
3131: Function Imm32SetOpenStatus( hImc : HIMC; fOpen : Boolean ) : Boolean
3132: // Function Imm32SetCompositionWindow( hImc : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3133: //Function Imm32SetCompositionFont( hImc : HIMC; lpLogFont : PLOGFONTA ) : Boolean
3134: Function Imm32GetCompositionString(hImc:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3135: Function Imm32ISIME( hK1 : longword ) : Boolean
3136: Function Imm32NotifyIME( hImc : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3137: Procedure DragDone( Drop : Boolean)
3138:

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3139:
3140: //*****added from jvvcutils
3141: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3142: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3143: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3144: function IsPositiveResult(Value: TModalResult): Boolean;
3145: function IsNegativeResult(Value: TModalResult): Boolean;
3146: function IsAbortResult(const Value: TModalResult): Boolean;
3147: function StripAllFromResult(const Value: TModalResult): TModalResult;
3148: // returns either BrightColor or DarkColor depending on the luminance of AColor
3149: // This function gives the same result (AFAIK) as the function used in Windows to
3150: // calculate the desktop icon text color based on the desktop background color
3151: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3152: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3153:
3154: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3155:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3156:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3157:   var LinkName: string; Scale: Integer = 100); overload;
3158: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3159:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3160:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3161:   var LinkName: string; Scale: Integer = 100); overload;
3162: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3163:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3164: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3165:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3166:   Scale: Integer = 100): string;
3167: function HTMLPlainText(const Text: string): string;
3168: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3169:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3170: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3171:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3172: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3173: function HTMLPrepareText(const Text: string): string;
3174:
3175: ***** uPSI_JvAppUtils;
3176: Function GetDefaultSection( Component : TComponent ) : string;
3177: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean);
3178: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string );
3179: Function GetDefaultIniName : string;
3180: //'OnGetDefaultIniName', 'OnGetDefaultIniName');
3181: Function GetDefaultIniRegKey : string;
3182: Function FindForm( FormClass : TFormClass ) : TForm;
3183: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm;
3184: Function ShowDialog( FormClass : TFormClass ) : Boolean;
3185: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm;
3186: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean );
3187: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean );
3188: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile );
3189: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string );
3190: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string );
3191: Function GetUniqueFileNameInDir( const Path, FileNameMask : string ) : string;
3192: Function StrToIniStr( const Str : string ) : string;
3193: Function IniStrToStr( const Str : string ) : string;
3194: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string;
3195: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string );
3196: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint;
3197: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint );
3198: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean;
3199: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean );
3200: Procedure IniReadSections( IniFile : TObject; Strings : TStrings );
3201: Procedure IniEraseSection( IniFile : TObject; const Section : string );
3202: Procedure IniDeleteKey( IniFile : TObject; const Section, Ident : string );
3203: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint );
3204: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint );
3205: Procedure AppTaskbarIcons( AppOnly : Boolean );
3206: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string );
3207: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string );
3208: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject );
3209: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject );
3210: ***** uPSI_JvDBUtils;
3211: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject;
3212: Function IsDataSetEmpty( DataSet : TDataSet ) : Boolean;
3213: Procedure RefreshQuery( Query : TDataSet );
3214: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean;
3215: Function DataSetSectionName( DataSet : TDataSet ) : string;
3216: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string );
3217: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool);
3218: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant; Options: TLocateOptions) : Boolean;
3219: Procedure SaveFields( DataSet : TDataSet; IniFile : TIniFile );
3220: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIniFile; RestoreVisible : Boolean );
3221: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean );
3222: Function ConfirmDelete : Boolean;
3223: Procedure ConfirmDataSetCancel( DataSet : TDataSet );
3224: Procedure CheckRequiredField( Field : TField );
3225: Procedure CheckRequiredFields( const Fields : array of TField );
3226: Function DateToSQL( Value : TDateTime ) : string;

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3227: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string) : string
3228: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string) : string
3229: Function FormatSQLNumericRange(const FieldName:string;LowVal,HighVal,LowEmpty,
  HighEmpty:Double;Inclusive:Bool):string
3230: Function StrMaskSQL( const Value : string) : string
3231: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3232: Function FormatAnsiSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3233: Procedure _DBError( const Msg : string)
3234: Const('TrueExpr','String '0=0
3235: Const('sdfStandard16','String ''''mm''/''dd''/''yyyy'''')
3236: Const('sdfStandard32','String ''''dd/mm/yyyy'''')
3237: Const('sdfOracle','String ''TO_DATE('''dd/mm/yyyy''' , ''DD/MM/YYYY''' )''')
3238: Const('sdfInterbase','String ''CAST('''mm''/''dd''/''yyyy''' AS DATE)'')
3239: Const('sdfMSSQL','String ''CONVERT(datetime, ''mm''/''dd''/''yyyy''' , 103)'')
3240: AddTypeS('Largeint', 'Longint
3241: addTypes('TIEException', '(ErNoImport, erCannotImport, erInvalidType, ErInternalError, '+
3242:   'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3243:   'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3244:   'erVersionError, ErDivideByZero, ErMathError,erCouldNotCallProc, erOutOfRecordRange, '+
3245:   'erOutOfMemory,erException,erNullPointerException,erNullVariantError,erInterfaceNotSupported,erUnsupportedError);
3246: (*-----*)
3247: procedure SIRegister_JclIniFiles(CL: TPSPascalCompiler);
3248: begin
3249:   Function JIniReadBool( const FileName, Section, Line : string) : Boolean
3250:   Function JIniReadInteger( const FileName, Section, Line : string) : Integer
3251:   Function JIniReadString( const FileName, Section, Line : string) : string
3252:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3253:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3254:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3255:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3256:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3257: end;
3258:
3259: (* === compile-time registration functions === *)
3260: (*-----*)
3261: procedure SIRegister_JclDateTime(CL: TPSPascalCompiler);
3262: begin
3263:   'UnixTimeStart','LongInt'( 25569);
3264:   Function JEncodeDate( const Year : Integer; Month, Day : Word) : TDateTime
3265:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word);
3266:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word);
3267:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer);
3268:   Function CenturyOfDate( const Date : TDateTime) : Integer
3269:   Function CenturyBaseYear( const Date : TDateTime) : Integer
3270:   Function DayOfDate( const Date : TDateTime) : Integer
3271:   Function MonthOfDate( const Date : TDateTime) : Integer
3272:   Function YearOfDate( const Date : TDateTime) : Integer
3273:   Function JDayOfTheYear( const Date : TDateTime; var Year : Integer) : Integer;
3274:   Function DayOfTheYear1( const Date : TDateTime) : Integer;
3275:   Function DayOfTheYearToDate( const Year, Day : Integer) : TDateTime
3276:   Function HourOfTime( const Date : TDateTime) : Integer
3277:   Function MinuteOfTime( const Date : TDateTime) : Integer
3278:   Function SecondOfTime( const Date : TDateTime) : Integer
3279:   Function GetISOYearNumberofDays( const Year : Word) : Word
3280:   Function IsISOLongYear( const Year : Word) : Boolean;
3281:   Function IsISOLongYear1( const Date : TDateTime) : Boolean;
3282:   Function ISODayOfWeek( const Date : TDateTime) : Word
3283:   Function JISOWeekNumber( Date : TDateTime; var YearOfWeekNumber, WeekDay : Integer) : Integer;
3284:   Function ISOWeekNumber1( Date : TDateTime; var YearOfWeekNumber : Integer) : Integer;
3285:   Function ISOWeekNumber2( Date : TDateTime) : Integer;
3286:   Function ISOWeekToDate( const Year, Week, Day : Integer) : TDateTime
3287:   Function JIsLeapYear( const Year : Integer) : Boolean;
3288:   Function IsLeapYear1( const Date : TDateTime) : Boolean;
3289:   Function JDaysInMonth( const Date : TDateTime) : Integer
3290:   Function Make4DigitYear( Year, Pivot : Integer) : Integer
3291:   Function JMakeYear4Digit( Year, WindowsYear : Integer) : Integer
3292:   Function JEasterSunday( const Year : Integer) : TDateTime // TDosDateTime', 'Integer
3293:   Function JFormatDateTime( Form : string; Date : TDateTime) : string
3294:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64) : Boolean;
3295:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime) : Boolean;
3296:   Function HoursToMSecs( Hours : Integer) : Integer
3297:   Function MinutesToMSecs( Minutes : Integer) : Integer
3298:   Function SecondsToMSecs( Seconds : Integer) : Integer
3299:   Function TimeOfDateToSeconds( Date : TDateTime) : Integer
3300:   Function TimeOfDateTimeToMSecs( Date : TDateTime) : Integer
3301:   Function DateTimeToLocalDateTime( Date : TDateTime) : TDateTime
3302:   Function LocalDateTimeToDate( Date : TDateTime) : TDateTime
3303:   Function DateTimeToDosDateTime( const Date : TDateTime) : TDosDateTime
3304:   Function JDatetimeToFileTime( Date : TDateTime) : TFileTime
3305:   Function JDatetimeToSystemTime( Date : TDateTime) : TSystemTime;
3306:   Procedure DateTimeToSystemTime( Date : TDateTime; var SysTime : TSystemTime);
3307:   Function LocalDateTimeToFileTime( Date : TDateTime) : FileTime
3308:   Function DosDateTimeToDate( const DosTime : TDosDateTime) : TDateTime
3309:   Function JDosDateTimeToFileTime( DosTime : TDosDateTime) : TFileTime;
3310:   Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime);
3311:   Function DosDateTimeToSystemTime( const DosTime : TDosDateTime) : TSystemTime
3312:   Function DosDateTimeToStr( Date : Integer) : string
3313:   Function JFileTimeToDate( const FileTime : TFileTime) : TDateTime
3314:   Function FileTimeToLocalDateTime( const FileTime : TFileTime) : TDateTime

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3315: Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3316: Procedure FileTimeToDosDateTime( const FileTime : TFileTime; var Date, Time : Word );
3317: Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3318: Procedure FileTimeToSystemTime( const FileTime : TFileTime; var ST : TSystemTime );
3319: Function FileTimeToStr( const FileTime : TFileTime ) : string
3320: Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3321: Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3322: Procedure SystemTimeToFileTime( const SystemTime : TSystemTime; FTime : TFileTime );
3323: Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3324: Function CreationDateOfFile( const Sr : TSearchRec ) : TDateTime
3325: Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3326: Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3327: TJclUnixTime32, 'Longword'
3328: Function JDatetimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3329: Function JUnixTimeToDate( const UnixTime : TJclUnixTime32 ) : TDateTime
3330: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3331: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3332: Function JNullStamp : TTimeStamp
3333: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3334: Function JEQualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3335: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3336: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3337: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3338: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3339: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3340: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3341: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3342: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3343: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3344: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3345: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3346: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3347: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3348: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3349: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3350: FindClass('TOBJECT'), 'EJclDateTimeError'
3351: end;
3352:
3353: procedure SIRegister_JclMiscel2(CL: TPPSPascalCompiler);
3354: begin
3355:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3356:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3357:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3358:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3359:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3360:   TJclKillLevel!, '( k1Normal, k1NoSignal, k1TimeOut )'
3361:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3362:   Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3363:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3364:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3365:   Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3366:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3367:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3368:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;;
3369:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3370:   Function AbortShutDown : Boolean;
3371:   Function AbortShutDown1( const MachineName : string ) : Boolean;
3372:   TJclAllowedPowerOperation!, '( apoHibernate, apoShutdown, apoSuspend )'
3373:   TJclAllowedPowerOperations!, 'set of TJclAllowedPowerOperation
3374:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3375:   FindClass('TOBJECT'), 'EJclCreateProcessError'
3376:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3377:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar);
3378:   // with Add(EJclCreateProcessError) do
3379:   end;
3380:
3381:
3382: procedure SIRegister_JclAnsiStrings(CL: TPPSPascalCompiler);
3383: begin
3384:   // 'AnsiSigns', 'Set' ).SetSet(['-', '+']);
3385:   'C1_UPPER', 'LongWord( $0001 );
3386:   'C1_LOWER', 'LongWord( $0002 );
3387:   'C1_DIGIT', 'LongWord' ).SetUInt( $0004 );
3388:   'C1_SPACE', 'LongWord' ).SetUInt( $0008 );
3389:   'C1_PUNCT', 'LongWord' ).SetUInt( $0010 );
3390:   'C1_CNTRL', 'LongWord' ).SetUInt( $0020 );
3391:   'C1_BLANK', 'LongWord' ).SetUInt( $0040 );
3392:   'C1_XDIGIT', 'LongWord' ).SetUInt( $0080 );
3393:   'C1_ALPHA', 'LongWord' ).SetUInt( $0100 );
3394:   AnsiChar', 'Char
3395:   Function StrIsAlpha( const S : AnsiString ) : Boolean
3396:   Function StrIsAlphaNum( const S : AnsiString ) : Boolean
3397:   Function StrIsAlphaNumUnderscore( const S : AnsiString ) : Boolean
3398:   Function StrContainsChars( const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean ) : Boolean
3399:   Function StrConsistsOfNumberChars( const S : AnsiString ) : Boolean
3400:   Function StrIsDigit( const S : AnsiString ) : Boolean
3401:   Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet ) : Boolean
3402:   Function StrSame( const S1, S2 : AnsiString ) : Boolean

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3403: //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar ) : AnsiString
3404: Function StrCharPosLower( const S : AnsiString; CharPos : Integer ) : AnsiString
3405: Function StrCharPosUpper( const S : AnsiString; CharPos : Integer ) : AnsiString
3406: Function StrDoubleQuote( const S : AnsiString ) : AnsiString
3407: Function StrEnsureNoPrefix( const Prefix, Text : AnsiString ) : AnsiString
3408: Function StrEnsureNoSuffix( const Suffix, Text : AnsiString ) : AnsiString
3409: Function StrEnsurePrefix( const Prefix, Text : AnsiString ) : AnsiString
3410: Function StrEnsureSuffix( const Suffix, Text : AnsiString ) : AnsiString
3411: Function StrEscapedToString( const S : AnsiString ) : AnsiString
3412: Function JStrLower( const S : AnsiString ) : AnsiString
3413: Procedure StrLowerInPlace( var S : AnsiString )
3414: //Procedure StrLowerBuff( S : PAnsiChar )
3415: Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer );
3416: Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3417: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3418: Function StrProper( const S : AnsiString ) : AnsiString
3419: //Procedure StrProperBuff( S : PAnsiChar )
3420: Function StrQuote( const S : AnsiString; C : AnsiChar ) : AnsiString
3421: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3422: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3423: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3424: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar ) : AnsiString
3425: Function StrReplaceChars( const S:AnsiString;const Chars:TSysCharSet;Replace:Ansichar):Ansistring
3426: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:Ansichar):Ansistring;
3427: Function StrRepeat( const S : AnsiString; Count : Integer ) : AnsiString
3428: Function StrRepeatLength( const S : AnsiString; const L : Integer ) : AnsiString
3429: Function StrReverse( const S : AnsiString ) : AnsiString
3430: Procedure StrReverseInPlace( var S : AnsiString )
3431: Function StrSingleQuote( const S : AnsiString ) : AnsiString
3432: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet ) : AnsiString
3433: Function StrStringToEscaped( const S : AnsiString ) : AnsiString
3434: Function StrStripNonNumberChars( const S : AnsiString ) : AnsiString
3435: Function StrToHex( const Source : AnsiString ) : AnsiString
3436: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar ) : AnsiString
3437: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3438: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar ) : AnsiString
3439: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3440: Function StrTrimQuotes( const S : AnsiString ) : AnsiString
3441: Function JStrUpper( const S : AnsiString ) : AnsiString
3442: Procedure StrUpperInPlace( var S : AnsiString )
3443: //Procedure StrUpperBuff( S : PAnsiChar )
3444: Function StrOemToAnsi( const S : AnsiString ) : AnsiString
3445: Function StrAnsiToOem( const S : AnsiString ) : AnsiString
3446: Procedure StrAddRef( var S : AnsiString )
3447: Function StrAllocSize( const S : AnsiString ) : Longint
3448: Procedure StrDecRef( var S : AnsiString )
3449: //Function StrLen( S : PAnsiChar ) : Integer
3450: Function StrLength( const S : AnsiString ) : Longint
3451: Function StrRefCount( const S : AnsiString ) : Longint
3452: Procedure StrResetLength( var S : AnsiString )
3453: Function StrCharCount( const S : AnsiString; C : Ansichar ) : Integer
3454: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet ) : Integer
3455: Function StrStrCount( const S, SubS : AnsiString ) : Integer
3456: Function StrCompare( const S1, S2 : AnsiString ) : Integer
3457: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer ) : Integer
3458: //Function StrFillChar( const C : AnsiChar; Count : Integer ) : AnsiString;
3459: Function StrFillChar( const C : Char; Count : Integer ) : AnsiString;
3460: Function StrFillChar( const C: Char; Count: Integer): string';
3461: Function IntFillChar( const I: Integer; Count: Integer): string');
3462: Function ByteFillChar( const B: Byte; Count: Integer): string');
3463: Function ArrFillChar( const AC: Char; Count: Integer): TCharArray';
3464: Function ArrByteFillChar( const AB: Char; Count: Integer): TByteArray;
3465: Function StrFind( const Substr, S : AnsiString; const Index : Integer ) : Integer
3466: //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString ) : Boolean
3467: Function StrIndex( const S : AnsiString; const List : array of AnsiString ) : Integer
3468: Function StrILastPos( const SubStr, S : AnsiString ) : Integer
3469: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3470: Function StrIsOneof( const S : AnsiString; const List : array of AnsiString ) : Boolean
3471: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3472: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3473: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3474: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3475: Function StrNPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3476: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString ) : Integer
3477: Function StrSearch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3478: //Function StrAfter( const SubStr, S : AnsiString ) : AnsiString
3479: //Function StrBefore( const SubStr, S : AnsiString ) : AnsiString
3480: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3481: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3482: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3483: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3484: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3485: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3486: Function CharEqualNoCase( const C1, C2 : Ansichar ) : Boolean
3487: Function CharIsAlpha( const C : Ansichar ) : Boolean
3488: Function CharIsAlphaNum( const C : Ansichar ) : Boolean
3489: Function CharIsBlank( const C : Ansichar ) : Boolean
3490: Function CharIsControl( const C : Ansichar ) : Boolean
3491: Function CharIsDelete( const C : Ansichar ) : Boolean

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3492: Function CharIsDigit( const C : AnsiChar ) : Boolean
3493: Function CharIsLower( const C : AnsiChar ) : Boolean
3494: Function CharIsNumberChar( const C : AnsiChar ) : Boolean
3495: Function CharIsPrintable( const C : AnsiChar ) : Boolean
3496: Function CharIsPunctuation( const C : AnsiChar ) : Boolean
3497: Function CharIsReturn( const C : AnsiChar ) : Boolean
3498: Function CharIsSpace( const C : AnsiChar ) : Boolean
3499: Function CharIsUpper( const C : AnsiChar ) : Boolean
3500: Function CharIsWhiteSpace( const C : AnsiChar ) : Boolean
3501: Function CharType( const C : AnsiChar ) : Word
3502: Function CharHex( const C : AnsiChar ) : Byte
3503: Function CharLower( const C : AnsiChar ) : AnsiChar
3504: Function CharUpper( const C : AnsiChar ) : AnsiChar
3505: Function CharToggleCase( const C : AnsiChar ) : AnsiChar
3506: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3507: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3508: Function CharIPOS( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3509: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3510: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3511: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3512: Function StringsToStr( const List:TStrings;const Sep:AnsiString;const AllowEmptyString:Bool ):AnsiString;
3513: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean )
3514: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean )
3515: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean )
3516: Function AddStringToStrings( const S:AnsiString;Strings:TStrings; const Unique:Boolean ):Boolean
3517: Function BooleanToStr( B : Boolean ) : AnsiString
3518: Function FileToString( const FileName : AnsiString ) : AnsiString
3519: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean )
3520: Function StrToken( var S : AnsiString; Separator : AnsiChar ) : AnsiString
3521: Procedure StrTokens( const S : AnsiString; const List : TStrings )
3522: Procedure StrTokenToStrings( S : AnsiString; Separator : AnsiChar; const List : TStrings )
3523: //Function StrWord( var S : PAnsiChar; out Word : AnsiString ) : Boolean
3524: Function StrToFloatSafe( const S : AnsiString ) : Float
3525: Function StrToIntSafe( const S : AnsiString ) : Integer
3526: Procedure StrNormIndex( const StrLen : Integer; var Index : Integer; var Count : Integer );
3527: Function ArrayOf( List : TStrings ) : TDynStringArray;
3528: EJclStringError', 'EJclError
3529: function IsClass(Address: TObject): Boolean;
3530: function IsObject(Address: TObject): Boolean;
3531: // Console Utilities
3532: //function ReadKey: Char;
3533: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3534: function JclGUIDToString(const GUID: TGUID): string;
3535: function JclStringToGUID(const S: string): TGUID;
3536:
3537: end;
3538:
3539:
3540: ***** uPSI_JvDBUtil;
3541: Procedure ExecuteSQLScript(Base:TDataBase; const Script: string; const Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3542: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3543: Function GetStoredProcedureResult( const ADatabaseName, AStoredProcName : string; AParams : array of Variant; const AResultName : string ) : Variant
3544: //Function StrFieldDesc( Field : FLDDesc ) : string
3545: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3546: Procedure CopyRecord( DataSet : TDataSet )
3547: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string; MasterField : Word; ModOp, DelOp : RINTQual )
3548: Procedure AddMasterPassword( Table : TTable; pswd : string )
3549: Procedure PackTable( Table : TTable )
3550: Procedure PackEncryptedTable( Table : TTable; pswd : string )
3551: Function EncodeQuotes( const S : string ) : string
3552: Function Cmp( const S1, S2 : string ) : Boolean
3553: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3554: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string
3555: Function ReplaceString( S : string; const OldPattern, NewPattern : string ) : string
3556: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer )
3557: *****uPSI_JvJvBDEUtils;*****
3558: //JvBDEUtils
3559: Function CreateDbLocate : TJvLocateObject
3560: //Function CheckOpen( Status : DBIResult ) : Boolean
3561: Procedure FetchAllRecords( DataSet : TBDEDataSet )
3562: Function Transact( Database : TDatabase ) : Boolean
3563: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3564: Function GetQuoteChar( Database : TDatabase ) : string
3565: Procedure ExecuteQuery( const DbName, QueryText : string )
3566: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string )
3567: Function FieldLogicMap( FldType : TFieldType ) : Integer
3568: Function FieldSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer
3569: Function GetAliasPath( const AliasName : string ) : string
3570: Function IsDirectory( const DatabaseName : string ) : Boolean
3571: Function GetBdeDirectory : string
3572: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3573: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3574: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3575: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3576: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3577: Function DataSetPositionStr( DataSet : TDataSet ) : string

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3578: Procedure DataSetShowDeleted( DataSet : TBDEDDataSet; Show : Boolean)
3579: Function CurrentRecordDeleted( DataSet : TBDEDDataSet ) : Boolean
3580: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3581: Function IsBookmarkStable( DataSet : TBDEDDataSet ) : Boolean
3582: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3583: Procedure RestoreIndex( Table : TTable )
3584: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3585: Procedure PackTable( Table : TTable )
3586: Procedure ReindexTable( Table : TTable )
3587: Procedure BdefFlushBuffers
3588: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3589: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string )
3590: Procedure DbNotSupported
3591: Procedure ExportDataSet( Source : TBDEDDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint )
3592: Procedure ExportDataSetEx( Source : TBDEDDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter,AsciiSeparator:Char;MaxRecordCount:Longint );
3593: Procedure
  ImportDataSet(Source:TBDEDDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3594: Procedure InitRSRUN(Database:TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3595: ****uPSI_JvDateUtil;
3596: function CurrentYear: Word;
3597: function IsLeapYear(AYear: Integer): Boolean;
3598: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3599: function FirstDayOfPrevMonth: TDateTime;
3600: function LastDayOfPrevMonth: TDateTime;
3601: function FirstDayOfNextMonth: TDateTime;
3602: function ExtractDay(ADate: TDateTime): Word;
3603: function ExtractMonth(ADate: TDateTime): Word;
3604: function ExtractYear(ADate: TDateTime): Word;
3605: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3606: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3607: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3608: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3609: function ValidateDate(ADate: TDateTime): Boolean;
3610: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3611: function MonthsBetween(Date1, Date2: TDateTime): Double;
3612: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3613: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3614: function DaysBetween(Date1, Date2: TDateTime): Longint;
3615: { The same as previous but if Date2 < Date1 result = 0 }
3616: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3617: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3618: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3619: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3620: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3621: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3622: { String to date conversions }
3623: function GetDateOrder(const DateFormat: string): TDateOrder;
3624: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3625: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3626: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3627: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3628: function DefDateFormat(FourDigitYear: Boolean): string;
3629: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3630: -----
3631: ***** JvUtils;*****
3632: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3633: function GetWordOnPos(const S: string; const P: Integer): string;
3634: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3635: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3636: { SubStr returns substring from string, S, separated with Separator string}
3637: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3638: { SubStrEnd same to previous function but Index numerated from the end of string }
3639: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3640: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3641: function SubWord(P: PChar; var P2: PChar): string;
3642: { NumberByWord returns the text representation of
  the number, N, in normal russian language. Was typed from Monitor magazine }
3643: function NumberByWord(const N: Longint): string;
3644: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3645: //the symbol Pos is pointed. Lines separated with #13 symbol }
3646: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3647: { GetXYByPos is same to previous function, but returns X position in line too}
3648: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3649: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3650: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3651: function ConcatSep(const S1, S2, Separator: string): string;
3652: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3653: function ConcatLeftSep(const S, S2, Separator: string): string;
3654: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3655: function ConcatLeftSep(const S, S2, Separator: string): string;
3656: { MinimizeString truncs long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3657: function MinimizeString(const S: string; const MaxLen: Integer): string;
3658: { Next 4 function for russian chars transliterating.
  This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3659: procedure Dos2Win(var S: string);
3660: procedure Win2Dos(var S: string);
3661: function Dos2WinRes(const S: string): string;
3662: function Win2DosRes(const S: string): string;

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3664: function Win2Koi(const S: string): string;
3665: { Spaces returns string consists on N space chars }
3666: function Spaces(const N: Integer): string;
3667: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3668: function AddSpaces(const S: string; const N: Integer): string;
3669: { function LastDate for russian users only } { returns date relative to current date: '' }
3670: function LastDate(const Dat: TDateTime): string;
3671: { CurrencyToStr format currency, Cur, using ffcurrency float format}
3672: function CurrencyToStr(const Cur: currency): string;
3673: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3674: function Cmp(const S1, S2: string): Boolean;
3675: { StringCat add S2 string to S1 and returns this string }
3676: function StringCat(var S1: string; S2: string): string;
3677: { HasChar returns True, if Char, Ch, contains in string, S }
3678: function HasChar(const Ch: Char; const S: string): Boolean;
3679: function HasAnyChar(const Chars: string; const S: string): Boolean;
3680: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3681: function CountOfChar(const Ch: Char; const S: string): Integer;
3682: function DefStr(const S: string; Default: string): string;
3683: {**** files routines}
3684: { GetWinDir returns Windows folder name }
3685: function GetWinDir: TFileName;
3686: function GetSysDir: String;
3687: { GetTempDir returns Windows temporary folder name }
3688: function GetTempDir: string;
3689: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3690: function GenTempFileName(FileName: string): string;
3691: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3692: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3693: { ClearDir clears folder Dir }
3694: function ClearDir(const Dir: string): Boolean;
3695: { DeleteDir clears and than delete folder Dir }
3696: function DeleteDir(const Dir: string): Boolean;
3697: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3698: function FileEquMask(FileName, Mask: TFileName): Boolean;
3699: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3700:   Masks must be separated with comma (';') }
3701: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3702: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3703: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3704: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3705: { FileGetInfo fills SearchRec record for specified file attributes}
3706: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3707: { HasSubFolder returns True, if folder APath contains other folders }
3708: function HasSubFolder(APath: TFileName): Boolean;
3709: { IsEmptyFolder returns True, if there are no files or folders in given folder, APath}
3710: function IsEmptyFolder(APath: TFileName): Boolean;
3711: { AddSlash add slash Char to Dir parameter, if needed }
3712: procedure AddSlash(var Dir: TFileName);
3713: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3714: function AddSlash2(const Dir: TFileName): string;
3715: { AddPath returns FileName with Path, if FileName not contain any path }
3716: function AddPath(const FileName, Path: TFileName): TFileName;
3717: function AddPaths(const PathList, Path: string): string;
3718: function ParentPath(const Path: TFileName): TFileName;
3719: function FindInPath(const FileName, PathList: string): TFileName;
3720: function FindInPaths(const fileName,paths: String): String;
3721: {$IFDEF BCB1}
3722: { BrowseForFolder displays Browse For Folder dialog }
3723: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3724: {$ENDIF BCB1}
3725: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3726: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3727: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3728: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3729:
3730: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3731: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3732: { HasParam returns True, if program running with specified parameter, Param }
3733: function HasParam(const Param: string): Boolean;
3734: function HasSwitch(const Param: string): Boolean;
3735: function Switch(const Param: string): string;
3736: { ExePath returns ExtractFilePath(ParamStr(0)) }
3737: function ExePath: TFileName;
3738: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3739: function FileTimeToDateTime(const FT: TFileTime): TDateTime;
3740: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3741: {**** Graphic routines }
3742: { TTFontSelected returns True, if True Type font is selected in specified device context }
3743: function TTFontSelected(const DC: HDC): Boolean;
3744: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3745: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3746: {**** Windows routines }
3747: { SetWindowTop put window to top without recreating window }
3748: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3749: {**** other routines }
3750: { KeyPressed returns True, if Key VK is now pressed }

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

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3837: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3838: function FindFormByClass(FormClass: TFormClass): TForm;
3839: function FindFormByClassName(FormClassName: string): TForm;
3840: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
3841:   having Tag property value, equal to Tag parameter }
3842: function FindByTag(WinControl: TWinControl; ComponentClass: TComponentClass; const Tag: Integer): TComponent;
3843: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3844: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3845: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3846: function RBTag(Parent: TWinControl): Integer;
3847: { AppMinimized returns True, if Application is minimized }
3848: function AppMinimized: Boolean;
3849: { MessageBox is Application.MessageBox with string (not PChar) parameters.
3850:   if Caption parameter = '', it replaced with Application.Title }
3851: function MessageBoxJ(const Msg: string; Caption: string; const Flags: Integer): Integer;
3852: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
3853:   Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWInControl): Integer;
3854: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
3855:   Buttons: TMsgDlgButtons; DefButton: TMsgDlgBtn; HelpContext: Integer; Control: TWInControl): Integer;
3856: { Delay stop program execution to MSec msec }
3857: procedure Delay(MSec: Longword);
3858: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3859: procedure EnableControls(Control: TWInControl; const Enable: Boolean);
3860: procedure EnableMenuItem(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3861: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3862: function PanelBorder(Panel: TCustomPanel): Integer;
3863: function Pixels(Control: TControl; APixels: Integer): Integer;
3864: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3865: procedure Error(const Msg: string);
3866: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3867:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3868: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>' }
3869: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3870:   const HideSelColor: Boolean): string;
3871: function ItemHtWidth(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
3872:   const HideSelColor: Boolean): Integer;
3873: function ItemHtPlain(const Text: string): string;
3874: { ClearList - clears list of TObject }
3875: procedure ClearList(List: TList);
3876: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3877: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
3878: { RTTI support }
3879: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3880: function GetPropStr(Obj: TObject; const PropName: string): string;
3881: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3882: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3883: procedure PrepareIniSection(SS: TStringList);
3884: { following functions are not documented because they are don't work properly, so don't use them }
3885: {$IFDEF COMPILER2}
3886: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3887: {$ENDIF}
3888:
3889: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3890: begin
3891:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3892:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3893:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
3894:   Accept:Bool;Sorted:Bool;
3895:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3896:   Procedure BoxMoveSelected( List : TWinControl; Items : TStringList)
3897:   Procedure BoxSetItem( List : TWinControl; Index : Integer)
3898:   Function BoxGetFirstSelection( List : TWinControl ) : Integer
3899:   Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3900: end;
3901: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3902: begin
3903:   Const ('MaxInitStrNum','LongInt'( 9));
3904:   Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
3905:   : array of AnsiString; MaxSplit : Integer ) : Integer
3906:   Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
3907:   string; MaxSplit : Integer ) : Integer
3908:   Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
3909:   QuoteChar:AnsiChar;OutStrs:TStrings):Integer
3910:   Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3911:   Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3912:   Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3913:   Function StrEatWhiteSpace( const S : string ) : string
3914:   Function HexToAscii( const S : AnsiString ) : AnsiString
3915:   Function AsciiToHex( const S : AnsiString ) : AnsiString
3916:   Function StripQuotes( const S1 : AnsiString ) : AnsiString
3917:   Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3918:   Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3919:   Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
3920:   Function HexPCharToInt( S1 : PAnsiChar ) : Integer
3921:   Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
3922:   Function StripPCharQuotes( S1 : PAnsiChar ) : AnsiString

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3922: Function JvValidIdentifierAansi( S1 : PAnsiChar ) : Boolean
3923: Function JvValidIdentifier( S1 : String ) : Boolean
3924: Function JvEndChar( X : AnsiChar ) : Boolean
3925: Procedure JvGetToken( S1, S2 : PAnsiChar )
3926: Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
3927: Function IsKeyword( S1 : PAnsiChar ) : Boolean
3928: Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
3929: Function GetParenthesis( S1, S2 : PAnsiChar ) : Boolean
3930: Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar )
3931: Procedure JvEatWhitespaceChars( S1 : PAnsiChar );
3932: Procedure JvEatWhitespaceChars1( S1 : PWideChar );
3933: Function GetTokenCount : Integer
3934: Procedure ResetTokenCount
3935: end;
3936:
3937: procedure SIRegister_JvDBQueryParamsForm(CL: TPSPPascalCompiler);
3938: begin
3939:   SIRegister_TJvQueryParamsDialog(CL);
3940:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
3941: end;
3942:
3943: ***** JvStringUtil / JvStringUtil;*****
3944: function FindNotBlankCharPos(const S: string): Integer;
3945: function AnsiChangeCase(const S: string): string;
3946: function GetWordOnPos(const S: string; const P: Integer): string;
3947: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3948: function Cmp(const S1, S2: string): Boolean;
3949: { Spaces returns string consists on N space chars }
3950: function Spaces(const N: Integer): string;
3951: { HasChar returns True, if char, Ch, contains in string, S }
3952: function HasChar(const Ch: Char; const S: string): Boolean;
3953: function HasAnyChar(const Chars: string; const S: string): Boolean;
3954: { SubStr returns substring from string, S, separated with Separator string}
3955: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3956: { SubStrEnd same to previous function but Index numerated from the end of string }
3957: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3958: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
3959: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3960: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3961: { GetXYByPos is same to previous function, but returns X position in line too }
3962: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3963: { AddSlash returns string with added slash char to Dir parameter, if needed }
3964: function AddSlash2(const Dir: TFileName): string;
3965: { AddPath returns FileName with Path, if FileName not contain any path }
3966: function AddPath(const FileName, Path: TFileName): TFileName;
3967: { ExePath returns ExtractFilePath(ParamStr(0)) }
3968: function ExePath: TFileName;
3969: function LoadTextFile(const FileName: TFileName): string;
3970: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3971: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3972: function ConcatSep(const S, S2, Separator: string): string;
3973: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3974: function FileEquMask(FileName, Mask: TFileName): Boolean;
3975: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3976:   Masks must be separated with comma ';' }
3977: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3978: function StringEndsWith(const Str, SubStr: string): Boolean;
3979: function ExtractFilePath2(const FileName: string): string;
3980: function StrToOem(const AnsiStr: string): string;
3981: { StrToOem translates a string from the Windows character set into the OEM character set. }
3982: function OemToAnsiStr(const OemStr: string): string;
3983: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
3984: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
3985: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
3986: function ReplaceStr(const S, Srch, Replace: string): string;
3987: { Returns string with every occurrence of Srch string replaced with Replace string. }
3988: function DelSpace(const S: string): string;
3989: { DelSpace return a string with all white spaces removed. }
3990: function DelChars(const S: string; Chr: Char): string;
3991: { DelChars return a string with all Chr characters removed. }
3992: function DelBSpace(const S: string): string;
3993: { DelBSpace trims leading spaces from the given string. }
3994: function DelEspace(const S: string): string;
3995: { DelEspace trims trailing spaces from the given string. }
3996: function DelRSpace(const S: string): string;
3997: { DelRSpace trims leading and trailing spaces from the given string. }
3998: function DelSpace1(const S: string): string;
3999: { DelSpace1 return a string with all non-single white spaces removed. }
4000: function Tab2Space(const S: string; Numb: Byte): string;
4001: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4002: function NPos(const C: string; S: string; N: Integer): Integer;
4003: { NPos searches for a N-th position of substring C in a given string. }
4004: function MakeStr(C: Char; N: Integer): string;
4005: function MS(C: Char; N: Integer): string;
4006: { MakeStr return a string of length N filled with character C. }
4007: function AddChar(C: Char; const S: string; N: Integer): string;
4008: { AddChar return a string left-padded to length N with characters C. }
4009: function AddCharR(C: Char; const S: string; N: Integer): string;
4010: { AddCharR return a string right-padded to length N with characters C. }

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

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4099: function DeleteFiles(const FileMask: string): Boolean;
4100: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4101: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4102: function NormalDir(const DirName: string): string;
4103: function RemoveBackSlash(const DirName: string): string;
4104: function ValidFileName(const FileName: string): Boolean;
4105: function DirExists(Name: string): Boolean;
4106: procedure ForceDirectories(Dir: string);
4107: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4108: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4109: {$IFDEF COMPILER4_UP}
4110: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4111: {$ENDIF}
4112: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4113: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4114: {$IFDEF COMPILER4_UP}
4115: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4116: {$ENDIF}
4117: function GetTempDir: string;
4118: function GetWindowsDir: string;
4119: function GetSystemDir: string;
4120: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4121: {$IFDEF WIN32}
4122: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4123: function ShortToLongFileName(const ShortName: string): string;
4124: function ShortToLongPath(const ShortName: string): string;
4125: function LongToShortFileName(const LongName: string): string;
4126: function LongToShortPath(const LongName: string): string;
4127: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4128: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4129: {$ENDIF WIN32}
4130: {$IFNDEF COMPILER3_UP}
4131: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4132: {$ENDIF}
4133: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4134: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4135: Function CreatePopUpCalculator( AOwner : TComponent ) : TWinControl;
4136: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4137:
4138: //*****procedure SIRegister_VarHlpr(CL: TPSPPascalCompiler);
4139: Procedure VariantClear( var V : Variant );
4140: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4141: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4142: Procedure VariantCopy( const src : Variant; var dst : Variant );
4143: Procedure VariantAdd( const src : Variant; var dst : Variant );
4144: Procedure VariantSub( const src : Variant; var dst : Variant );
4145: Procedure VariantMul( const src : Variant; var dst : Variant );
4146: Procedure VariantDiv( const src : Variant; var dst : Variant );
4147: Procedure VariantMod( const src : Variant; var dst : Variant );
4148: Procedure VariantAnd( const src : Variant; var dst : Variant );
4149: Procedure VariantOr( const src : Variant; var dst : Variant );
4150: Procedure VariantXor( const src : Variant; var dst : Variant );
4151: Procedure VariantShl( const src : Variant; var dst : Variant );
4152: Procedure VariantShr( const src : Variant; var dst : Variant );
4153: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4154: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4155: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4156: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4157: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4158: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4159: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4160: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4161: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4162: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4163: Function VariantNot( const V1 : Variant ) : Variant;
4164: Function VariantNeg( const V1 : Variant ) : Variant;
4165: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
4166: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
4167: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
4168: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
4169: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
4170: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer );
4171: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer );
4172: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer );
4173: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer );
4174: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer );
4175: end;
4176:
4177: *****unit uPSI_JvgUtils;*****
4178: function IsEven(I: Integer): Boolean;
4179: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4180: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4181: procedure SwapInt(var I1, I2: Integer);
4182: function Spaces(Count: Integer): string;
4183: function DupStr(const Str: string; Count: Integer): string;
4184: function DupChar(C: Char; Count: Integer): string;
4185: procedure Msg(const AMsg: string);
4186: function RectW(R: TRect): Integer;
4187: function RectH(R: TRect): Integer;

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4188: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4189: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4190: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4191: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4192:   HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4193: procedure DrawTextInRect(DC: HDC; R: TRect; const Text: string; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4194: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4195:   Style: TglTextStyle; ADelinedated, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor:
4196:   TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4197: procedure DrawBox(DC: HDC; var R: TRect; Style: TglBoxStyle; BackgrColor: Longint; ATransparent: Boolean);
4198: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4199:   BevelInner, BevelOuter: TPanelBevel; Bold: Boolean; BackgrColor: Longint; ATransparent: Boolean): TRect;
4200: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient; PenStyle: PenWidth: Integer);
4201: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4202: procedure DrawBitmapExt(DC: HDC; { DC - background & result }
4203:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y_in_rect!
4204:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4205:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4206: procedure CreateBitmapExt(DC: HDC; { DC - background & result }
4207:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y_in_rect!
4208:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4209:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4210: function GetParentForm(Control: TControl): TForm;
4211: procedure GetWindowImageFrom(Control: TWinControl; X, Y: Integer; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4212: procedure GetWindowImage(Control: TWinControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4213: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4214: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4215: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4216: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4217: function CalcMathString(AExpression: string): Single;
4218: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4219: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4220: function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4221: procedure TypeStringOnKeyboard(const S: string);
4222: function NextStringGridCell(Grid: TStringGrid): Boolean;
4223: procedure DrawTextExtAligned(Canvas: TCanvas; const
4224:   Text: string; R: TRect; Alignment: TglAlignment; WordWrap: Boolean);
4225: procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4226: procedure SaveComponentToTextFile(Component: TComponent; const FileName: string);
4227: function ComponentToString(Component: TComponent): string;
4228: function StringToComponent(Component: TComponent; const Value: string);
4229: function PlayWaveResource(const ResName: string): Boolean;
4230: function UserName: string;
4231: function ComputerName: string;
4232: function ExpandString(const Str: string; Len: Integer): string;
4233: function Transliterate(const Str: string; RusToLat: Boolean): string;
4234: function IsSmallFonts: Boolean;
4235: function SystemColorDepth: Integer;
4236: function GetFileTypeJ(const FileName: string): TglFileType;
4237: Function GetFileType( hfile : THandle ) : DWORD;
4238: function FindControlAtPt(Control: TWinControl; Pt: TPoint; MinClass: TClass): TControl;
4239: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4240:
4241: { **** Utility routines of unit classes }
4242: function LineStart(Buffer, BufPos: PChar): PChar;
4243: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar; '+
4244:   'Strings: TStrings): Integer;
4245: Function TestStreamFormat( Stream : TStream ) : TStreamOriginalFormat;
4246: Procedure RegisterClass( AClass : TPersistentClass );
4247: Procedure RegisterClasses( AClasses : array of TPersistentClass );
4248: Procedure RegisterClassAlias( AClass : TPersistentClass; const Alias : string );
4249: Procedure UnRegisterClass( AClass : TPersistentClass );
4250: Procedure UnRegisterClasses( AClasses : array of TPersistentClass );
4251: Procedure UnRegisterModuleClasses( Module : HMODULE );
4252: Function FindGlobalComponent( const Name : string ) : TComponent;
4253: Function IsUniqueGlobalComponentName( const Name : string ) : Boolean;
4254: Function InitInheritedComponent( Instance : TComponent; RootAncestor : TClass ) : Boolean;
4255: Function InitComponentRes( const ResName : string; Instance : TComponent ) : Boolean;
4256: Function ReadComponentRes( const ResName : string; Instance : TComponent ) : TComponent;
4257: Function ReadComponentResEx( HInstance : THandle; const ResName : string ) : TComponent;
4258: Function ReadComponentResFile( const FileName : string; Instance : TComponent ) : TComponent;
4259: Procedure WriteComponentResFile( const FileName : string; Instance : TComponent );
4260: Procedure GlobalFixupReferences;
4261: Procedure GetFixupReferenceNames( Root : TComponent; Names : TStrings );
4262: Procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName string; Names : TStrings);
4263: Procedure RedirectFixupReferences( Root : TComponent; const OldRootName, NewRootName : string );
4264: Procedure RemoveFixupReferences( Root : TComponent; const RootName : string );
4265: Procedure RemoveFixups( Instance : TPersistent );
4266: Function FindNestedComponent( Root : TComponent; const NamePath : string ) : TComponent;
4267: Procedure BeginGlobalLoading;
4268: Procedure NotifyGlobalLoading;
4269: Procedure EndGlobalLoading;
4270: Function GetUltimateOwner1( ACollection : TCollection ) : TPersistent;
4271: Function GetUltimateOwner( APersistent : TPersistent ) : TPersistent;
4272: // AddTypeS('TWindMethod', 'Procedure (var Message : TMessage)
4273: //Function MakeObjectInstance( Method : TWndMethod ) : Pointer
4274: Procedure FreeObjectInstance( ObjectInstance : Pointer );

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4275: // Function AllocateHWnd( Method : TWndMethod) : HWnd
4276: Procedure DeAllocateHWnd( Wnd : HWnd)
4277: Function AncestorIsValid( Ancestor : TPersistent; Root, RootAncestor : TComponent) : Boolean
4278: *****unit uPSI_SqlTimSt and DB;*****
4279: Procedure VarSQLTimeStampCreate4( var aDest : Variant; const ASQLTimeStamp : TSQLOTimeStamp);
4280: Function VarSQLTimeStampCreate3: Variant;
4281: Function VarSQLTimeStampCreate2( const AValue : string) : Variant;
4282: Function VarSQLTimeStampCreate1( const AValue : TDateTime) : Variant;
4283: Function VarSQLTimeStampCreate( const ASQLTimeStamp : TSQLOTimeStamp) : Variant;
4284: Function VarSQLTimeStamp : TVarType;
4285: Function VarIsSQLTimeStamp( const aValue : Variant) : Boolean;
4286: Function LocalToUTC( var TZInfo : TTImetime; var Value : TSQLOTimeStamp) : TSQLOTimeStamp //beta
4287: Function UTCToLocal( var TZInfo : TTImetime; var Value : TSQLOTimeStamp) : TSQLOTimeStamp //beta
4288: Function VarToSQLTimeStamp( const aValue : Variant) : TSQLOTimeStamp
4289: Function SQLTimeStampToStr( const Format : string; DateTime : TSQLOTimeStamp) : string
4290: Function SQLDayOfWeek( const DateTime : TSQLOTimeStamp) : integer
4291: Function DateTimeToSQLTimeStamp( const DateTime : TDateTime) : TSQLOTimeStamp
4292: Function SQLTimeStampToDateTime( const DateTime : TSQLOTimeStamp) : TDateTime
4293: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQLOTimeStamp) : Boolean
4294: Function StrToSQLTimeStamp( const S : string) : TSQLOTimeStamp
4295: Procedure CheckSQLTimeStamp( const ASQLTimeStamp : TSQLOTimeStamp)
4296: Function ExtractFieldName( const Fields : string; var Pos : Integer) : string;
4297: Function ExtractFieldName( const Fields : WideString; var Pos : Integer) : WideString;
4298: //Procedure RegisterFields( const FieldClasses : array of TFieldClass)
4299: Procedure DatabaseError( const Message : WideString; Component : TComponent)
4300: Procedure DatabaseErrorFmt(const Message:WideString; const Args:array of const;Component:TComponent)
4301: Procedure DisposeMem( var Buffer, Size : Integer)
4302: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer) : Boolean
4303: Function GetFieldProperty(DataSet:DataSet; Control:TComponent; const FieldName: WideString): TField
4304: Function VarTypeToDataType( VarType : Integer) : TFieldType
4305: *****unit JvStrings;*****
4306: {template functions}
4307: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4308: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4309: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4310: function RemoveMasterBlocks(const SourceStr: string): string;
4311: function RemoveFields(const SourceStr: string): string;
4312: {http functions}
4313: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4314: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4315: {set functions}
4316: procedure SplitSet(AText: string; Alist: TStringList);
4317: function JoinSet(Alist: TStringList): string;
4318: function FirstOfSet(const AText: string): string;
4319: function LastOfSet(const AText: string): string;
4320: function CountOfSet(const AText: string): Integer;
4321: function SetRotateRight(const AText: string): string;
4322: function SetRotateLeft(const AText: string): string;
4323: function SetPick(const AText: string; AIndex: Integer): string;
4324: function SetSort(const AText: string): string;
4325: function SetUnion(const Set1, Set2: string): string;
4326: function SetIntersect(const Set1, Set2: string): string;
4327: function SetExclude(const Set1, Set2: string): string;
4328: {replace any <,> etc by &lt;,&gt;}
4329: function XMLSafe(const AText: string): string;
4330: {simple hash, Result can be used in Encrypt}
4331: function Hash(const AText: string): Integer;
4332: { Base64 encode and decode a string }
4333: function B64Encode(const S: AnsiString): AnsiString;
4334: function B64Decode(const S: AnsiString): AnsiString;
4335: {Basic encryption from a Borland Example}
4336: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4337: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4338: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4339: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4340: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4341: procedure CSVToTags(Src, Dst: TStringList);
4342: // converts a csv list to a tagged string list
4343: procedure TagsToCSV(Src, Dst: TStringList);
4344: // converts a tagged string list to a csv list
4345: // only fieldnames from the first record are scanned in the other records
4346: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4347: {selects akey=avalue from Src and returns recordset in Dst}
4348: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4349: {filters Src for akey=avalue}
4350: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4351: {orders a tagged Src list by akey}
4352: function PosStr(const FindString, SourceString: string;
4353: StartPos: Integer = 1): Integer;
4354: { PosStr searches the first occurrence of a substring FindString in a string
4355: given by SourceString with case sensitivity (upper and lower case characters
4356: are differed). This function returns the index value of the first character
4357: of a specified substring from which it occurs in a given string starting with
4358: StartPos character index. If a specified substring is not found Q_PosStr
4359: returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4360: function PosStrLast(const FindString, SourceString: string): Integer;
4361: {finds the last occurrence}
4362: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4363: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;

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4364: { PostText searches the first occurrence of a substring FindString in a string
4365:   given by SourceString without case sensitivity (upper and lower case characters are not differed). This
4366:   function returns the index value of the first character of a specified substring from which it occurs in a
4367:   given string starting with Start
4368: function PostTextLast(const FindString, SourceString: string): Integer;
4369: {finds the last occurrence}
4370: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4371: {$ENDIF MSWINDOWS}
4372: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4373: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4374: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4375: procedure SaveString(const AFile, AText: string);
4376: Procedure SaveStringasFile( const AFile, AText : string)
4377: function LoadString(const AFile: string): string;
4378: Function LoadStringOfFile( const AFile : string) : string
4379: Procedure SaveStringToFile( const AFile, AText : string)
4380: Function LoadStringFromFile( const AFile : string) : string
4381: function HexToColor(const AText: string): TColor;
4382: function UppercaseHTMLTags(const AText: string): string;
4383: function LowercaseHTMLTags(const AText: string): string;
4384: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4385: function RelativePath(const ASrc, ADst: string): string;
4386: function GetToken(var Start: Integer; const SourceText: string): string;
4387: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4388: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4389: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4390: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4391: // parses the beginning of an attribute: space + alpha character
4392: function ParseAttribute(var Start: Integer; const SourceText: string; var AName, AValue: string): Boolean;
4393: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4394: procedure ParseAttributes(const SourceText: string; Attributes: TStrings);
4395: // parses all name=value attributes to the attributes TStringList
4396: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4397: // checks if a name="value" pair exists and returns any value
4398: function GetStrValue(const AText, AName, ADefault: string): string;
4399: // retrieves string value from a line like:
4400: // name="jan verhoeven" email="jan1 dott verhoeven att wxs dott nl"
4401: // returns ADefault when not found
4402: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4403: // same for a color
4404: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4405: // same for an Integer
4406: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4407: // same for a float
4408: function GetBoolValue(const AText, AName: string): Boolean;
4409: // same for Boolean but without default
4410: function GetValue(const AText, AName: string): string;
4411: //retrieves string value from a line like: name="jan verhoeven" email="jan1 verhoeven att wxs dott nl"
4412: procedure SetValue(var AText: string; const AName, AValue: string);
4413: // sets a string value in a line
4414: procedure DeleteValue(var AText: string; const AName: string);
4415: // deletes a AName="value" pair from AText
4416: procedure GetNames(AText: string; AList: TStringList);
4417: // get a list of names from a string with name="value" pairs
4418: function GetHTMLColor(AColor: TColor): string;
4419: // converts a color value to the HTML hex value
4420: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4421: // finds a string backward case sensitive
4422: function BackPostText(Start: Integer; const FindString, SourceString: string): Integer;
4423: // finds a string backward case insensitive
4424: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4425:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4426: // finds a text range, e.g. <TD>....</TD> case sensitive
4427: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4428:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4429: // finds a text range, e.g. <TD>....</td> case insensitive
4430: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4431:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4432: // finds a text range backward, e.g. <TD>....</TD> case sensitive
4433: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4434:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4435: // finds a text range backward, e.g. <TD>....</td> case insensitive
4436: function PostTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4437:   var RangeEnd: Integer): Boolean;
4438: // finds a HTML or XML tag: <....>
4439: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4440:   var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4441: // finds the innerText between opening and closing tags
4442: function Easter(NYear: Integer): TDateTime;
4443: // returns the easter date of a year.
4444: function GetWeekNumber(Today: TDateTime): string;
4445: //gets a datecode. Returns year and weeknumber in format: YYWW
4446: function ParseNumber(const S: string): Integer;
4447: // parse number returns the last position, starting from 1
4448: function ParseDate(const S: string): Integer;
4449: // parse a SQL style date string from positions 1,
4450: // starts and ends with #

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4451:
4452: *****unit JvJCLUtils;*****
4453:
4454: function VarIsInt(Value: Variant): Boolean;
4455: // VarIsInt returns VarIsOrdinal-[varBoolean]
4456: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4457: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4458: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4459: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4460: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4461: function GetWordOnPos(const S: string; const P: Integer): string;
4462: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4463: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4464: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4465: { GetWordOnPosEx working like GetWordOnPos function, but
4466: also returns Word position in iBeg, iEnd variables }
4467: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4468: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4469: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4470: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4471: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4472: { GetEndPosCaret returns the caret position of the last char. For the position
4473: after the last char of Text you must add 1 to the returned X value. }
4474: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4475: { GetEndPosCaret returns the caret position of the last char. For the position
4476: after the last char of Text you must add 1 to the returned X value. }
4477: { SubStrBySeparator returns substring from string, S, separated with Separator string,
4478: function SubStrBySeparator(const S:string;const Index:Integer;const
Separator:string;StartIndex:Int=1):string;
4479: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
Separator:WideString;StartIndex:Int:WideString;
4480: { SubStrEnd same to previous function but Index numerated from the end of string }
4481: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4482: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4483: function SubWord(P: PChar; var P2: PChar): string;
4484: function CurrencyByWord(Value: Currency): string;
4485: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4486: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4487: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4488: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4489: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4490: { ReplaceString searches for all substrings, OldPattern,
4491: in a string, S, and replaces them with NewPattern }
4492: function ReplaceString(S: string; const OldPattern,NewPattern: string; StartIndex:Integer = 1):string;
4493: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
WideString;StartIndex:Integer=1):WideString;
4494: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4495: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4496: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
4497: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE}
4498:
4499: { Next 4 function for russian chars transliterating.
4500: This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4501: procedure Dos2Win(var S: AnsiString);
4502: procedure Win2Dos(var S: AnsiString);
4503: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4504: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4505: function Win2Koi(const S: AnsiString): AnsiString;
4506: { FillString fills the string Buffer with Count Chars }
4507: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4508: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4509: { MoveString copies Count Chars from Source to Dest }
4510: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
SUPPORTS_INLINE} overload;
4511: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string);
4512: { DstStartIdx: Integer;Count: Integer}; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4513: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4514: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4515: { MoveWideChar copies Count WideChars from Source to Dest }
4516: procedure MoveWideChar(const Source: string; var Dest;Count:Integer);{$IFDEF SUPPORTS_INLINE}inline;{$ENDIF
SUPPORTS_INLINE}
4517: { FillNativeChar fills Buffer with Count NativeChars }
4518: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4519: { MoveWideChar copies Count WideChars from Source to Dest }
4520: procedure MoveNativeChar(const Source; var Dest; Count: Integer); // D2009 internal error {$IFDEF
SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4521: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4522: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4523: { Spaces returns string consists on N space chars }
4524: function Spaces(const N: Integer): string;
4525: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4526: function AddSpaces(const S: string; const N: Integer): string;
4527: function SpacesW(const N: Integer): WideString;
4528: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4529: { function LastDateRUS for russian users only }
4530: { returns date relative to current date: 'äää ääý fåçää' }

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4531: function LastDateRUS(const Dat: TDateTime): string;
4532: { CurrencyToStr format Currency, Cur, using ffcurrency float format}
4533: function CurrencyToStr(const Cur: Currency): string;
4534: { HasChar returns True, if Char, Ch, contains in string, S }
4535: function HasChar(const Ch: Char; const S: string): Boolean;
4536: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline: {$ENDIF SUPPORTS_INLINE}
4537: function HasAnyChar(const Chars: string; const S: string): Boolean;
4538: {$IFDEF COMPILER12_UP}
4539: function CharInSet(const Ch: AnsiChar;const SetOfChar:TSysCharSet):Boolean;inline:{$ENDIF SUPPORTS_INLINE}
4540: {$ENDIF -COMPILER12_UP}
4541: function CharInSetW(const Ch: WideChar;const SetOfChar: TSysCharSet):Boolean;inline: {$ENDIF SUPPORTS_INLINE}
4542: function CountOfChar(const Ch: Char; const S: string): Integer;
4543: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4544: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4545: function StrLICompW(S1, S2: PWideChar; MaxLen: Integer): Integer;
4546: function StrPosW(S, SubStr: PWideChar): PWideChar;
4547: function StrLenW(S: PWideChar): Integer;
4548: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4549: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4550: function TrimRightW(const S: WideString): WideString; inline: {$IFDEF SUPPORTS_INLINE}
4551: TPixelFormat', '( pfDevice, pf1bit, pf4bit, pf8bit, pf24bit )
4552: TMappingMethod', '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTriple, mmGrayscale )
4553: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4554: Function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4555: Procedure SetBitmapPixelFormat( Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4556: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4557: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4558: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4559: Procedure SaveBitmapToFile( const Filename: string; Bitmap : TBitmap; Colors : Integer )
4560: Function ScreenPixelFormat : TPixelFormat
4561: Function ScreenColorCount : Integer
4562: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic)
4563: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean) : TPoint
4564: // SIRegister_TJvGradient(CL);
4565:
4566: {***** files routines}
4567: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4568: const
4569: {$IFDEF MSWINDOWS}
4570: DefaultCaseSensitivity = False;
4571: {$ENDIF MSWINDOWS}
4572: {$IFDEF UNIX}
4573: DefaultCaseSensitivity = True;
4574: {$ENDIF UNIX}
4575: { GenTempFileName returns temporary file name on
4576: drive, there FileName is placed }
4577: function GenTempFileName(FileName: string): string;
4578: { GenTempFileNameExt same to previous function, but
4579: returning filename has given extension, FileExt }
4580: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4581: { ClearDir clears folder Dir }
4582: function ClearDir(const Dir: string): Boolean;
4583: { DeleteDir clears and than delete folder Dir }
4584: function DeleteDir(const Dir: string): Boolean;
4585: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4586: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4587: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4588: Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4589: function FileEquMasks(FileName, Masks: TFileName;
4590: CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4591: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4592: {$IFDEF MSWINDOWS}
4593: { LZFileExpand expand file, FileSource,
4594: into FileDest. Given file must be compressed, using MS Compress program }
4595: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4596: {$ENDIF MSWINDOWS}
4597: { FileGetInfo finds SearchRec record for specified file attributes}
4598: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4599: { HasSubFolder returns True, if folder APath contains other folders }
4600: function HasSubFolder(APath: TFileName): Boolean;
4601: { IsEmptyFolder returns True, if there are no files or
4602: folders in given folder, APath}
4603: function IsEmptyFolder(APath: TFileName): Boolean;
4604: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4605: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline: {$ENDIF SUPPORTS_INLINE}
4606: { AddPath returns FileName with Path, if FileName not contain any path }
4607: function AddPath(const FileName, Path: TFileName): TFileName;
4608: function AddPaths(const PathList, Path: string): string;
4609: function ParentPath(const Path: TFileName): TFileName;
4610: function FindInPath(const FileName, PathList: string): TFileName;
4611: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4612: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4613: { HasParam returns True, if program running with specified parameter, Param }
4614: function HasParam(const Param: string): Boolean;
4615: function HasSwitch(const Param: string): Boolean;
4616: function Switch(const Param: string): string;

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4617: { ExePath returns ExtractFilePath(ParamStr(0)) }
4618: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4619: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4620: //function FileTimeToDateTIme(const FT: TFileTime): TDateTime;
4621: procedure FileTimeToDosDateTimeDWord(const FT: TFileTime; out Dft: DWORD);
4622: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4623: {**** Graphic routines }
4624: { IsTTFontSelected returns True, if True Type font is selected in specified device context }
4625: function IsTTFontSelected(const DC: HDC): Boolean;
4626: function KeyPressed(VK: Integer): Boolean;
4627: Function isKeypressed: boolean; //true if key on memo2 (shell output) is pressed
4628: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4629: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4630: {**** Color routines }
4631: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);
4632: function RGBToGR(Value: Cardinal): Cardinal;
4633: //function ColorToPrettyName(Value: TColor): string;
4634: //function PrettyNameToColor(const Value: string): TColor;
4635: {**** other routines }
4636: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4637: function IntPower(Base, Exponent: Integer): Integer;
4638: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4639: function StrToBool(const S: string): Boolean;
4640: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4641: function VarToInt(V: Variant): Integer;
4642: function VarToFloat(V: Variant): Double;
4643: { following functions are not documented because they not work properly sometimes, so do not use them }
4644: // (rom) ReplaceStrings1, GetSubStr removed
4645: function GetLongFileName(const FileName: string): string;
4646: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4647: function GetParameter: string;
4648: function GetComputerID: string;
4649: function GetComputerName: string;
4650: {**** string routines }
4651: { ReplaceAllStrings searches for all substrings, Words,
4652:   in a string, S, and replaces them with Frases with the same Index. }
4653: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4654: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4655:   in the list, Words, and if finds, replaces this Word with string from another list,Frases, with the
4656:   same Index, and then update NewSelStart variable }
4657: function ReplaceStrings(const S:string;PosBeg,Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4658: { CountOfLines calculates the lines count in a string, S,
4659:   each line must be separated from another with CrLf sequence }
4660: function CountOfLines(const S: string): Integer;
4661: { DeleteLines deletes all lines from strings which in the words, words.
4662:   The word of will be deleted from strings. }
4663: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4664: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4665:   Lines contained only spaces also deletes. }
4666: procedure DeleteEmptyLines(Ss: TStrings);
4667: { SQLAddWhere addes or modifies existing where-statement, where,
4668:   to the strings, SQL. Note: If strings SQL already contains where-statement,
4669:   it must be started on the begining of any line }
4670: {**** files routines - }
4671: {$IFDEF MSWINDOWS}
4672: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4673:   Resource can be compressed using MS Compress program}
4674: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4675: function ResSaveToFileEx(Instance:HINST;Typ,Name:PChar;const Compressed:Boolean;const FileName:string): Boolean;
4676: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4677: {$ENDIF MSWINDOWS}
4678: { IniReadSection read section, Section, from ini-file,
4679:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4680:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
4681: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4682: { LoadTextFile load text file, FileName, into string }
4683: function LoadTextFile(const FileName: TFileName): string;
4684: procedure SaveTextfile(const FileName: TFileName; const Source: string);
4685: { ReadFolder reads files list from disk folder,Folder,that are equal to mask, Mask,into strings, FileList}
4686: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4687: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4688: { RATETextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4689: procedure RATETextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4690: { RATETextOutEx same with RATETextOut function, but can calculate needed height for correct output }
4691: function RATETextOutEx(Canvas:TCanvas;const R,RClip:TRect; const S:string;const CalcHeight:Boolean):Integer;
4692: { RATETextCalcHeight calculate needed height for
4693:   correct output, using RATETextOut or RATETextOutEx functions }
4694: function RATETextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4695: { Cinema draws some visual effect }
4696: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4697: { Roughed fills rect with special 3D pattern }
4698: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4699: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4700:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4701: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4702: function TextWidth(const AStr: string): Integer;

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4703: { TextHeight calculate text height for writing using standard desktop font }
4704: function TextHeight(const AStr: string): Integer;
4705: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4706: procedure Error(const Msg: string);
4707: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4708:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4709: {example Text parameter:'Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4710: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4711:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4712: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4713:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4714: function ItemHtPlain(const Text: string): string;
4715: { ClearList - clears list of TObject }
4716: procedure ClearList(List: TList);
4717: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4718: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
4719: { RTTI support }
4720: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4721: function GetPropStr(Obj: TObject; const PropName: string): string;
4722: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4723: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4724: procedure PrepareIniSection(Ss: TStrings);
4725: { following functions are not documented because they are don't work properly, so don't use them }
4726: // (rom) from JvBandWindows to make it obsolete
4727: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4728: // (rom) from JvBandUtils to make it obsolete
4729: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4730: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4731: function CreateIconFromClipboard: TIcon;
4732: { begin JvIconClipboardUtils } { Icon clipboard routines }
4733: function CF_ICON: Word;
4734: procedure AssignClipboardIcon(Icon: TIcon);
4735: { Real-size icons support routines (32-bit only) }
4736: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4737: function CreateRealSizeIcon(Icon: TIcon): HICON;
4738: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4739: {end JvIconClipboardUtils }
4740: function CreateScreenCompatibleDC: HDC;
4741: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF}
4742: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4743: { begin JvRLE } // (rom) changed API for inclusion in JCL
4744: procedure RleCompressTo(InStream, OutStream: TStream);
4745: procedure RleDecompressTo(InStream, OutStream: TStream);
4746: procedure RleCompress(Stream: TStream);
4747: procedure RleDecompress(Stream: TStream);
4748: { end JvRLE } { begin JvDateUtil }
4749: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4750: function IsLeapYear(AYear: Integer): Boolean;
4751: function DaysInAMonth(const AYear, AMonth: Word): Word;
4752: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4753: function FirstDayOfPrevMonth: TDateTime;
4754: function LastDayOfPrevMonth: TDateTime;
4755: function FirstDayOfNextMonth: TDateTime;
4756: function ExtractDay(ADate: TDateTime): Word;
4757: function ExtractMonth(ADate: TDateTime): Word;
4758: function ExtractYear(ADate: TDateTime): Word;
4759: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4760: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$IFDEF SUPPORTS_INLINE}
4761: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4762: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4763: function ValidDate(ADate: TDateTime): Boolean;
4764: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4765: function MonthsBetween(Date1, Date2: TDateTime): Double;
4766: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4767: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4768: function DaysBetween(Date1, Date2: TDateTime): Longint;
4769: { The same as previous but if Date2 < Date1 result = 0 }
4770: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4771: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4772: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4773: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4774: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4775: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4776: { String to date conversions }
4777: function GetDateOrder(const DateFormat: string): TDateOrder;
4778: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4779: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4780: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4781: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4782: //function DefDateFormat(AFourDigitYear: Boolean): string;
4783: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4784: function FormatLongDate(Value: TDateTime): string;
4785: function FormatLongDateTime(Value: TDateTime): string;
4786: { end JvDateUtil }
4787: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4788: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4789: { begin JvStrUtils } { ** Common string handling routines ** }
4790: {$IFDEF UNIX}

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4791: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4792:   const ToCode, FromCode: AnsiString): Boolean;
4793: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4794: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4795: function OemStrToAnsi(const S: AnsiString): AnsiString;
4796: function AnsiStrToOem(const S: AnsiString): AnsiString;
4797: {$ENDIF UNIX}
4798: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4799: { StrToOem translates a string from the Windows character set into the OEM character set. }
4800: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4801: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4802: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4803: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4804: function ReplaceStr(const S, Srch, Replace: string): string;
4805: { Returns string with every occurrence of Srch string replaced with Replace string. }
4806: function DelSpace(const S: string): string;
4807: { DelSpace return a string with all white spaces removed. }
4808: function DelChars(const S: string; Chr: Char): string;
4809: { DelChars return a string with all Chr characters removed. }
4810: function DelBSpace(const S: string): string;
4811: { DelBSpace trims leading spaces from the given string. }
4812: function DelESpace(const S: string): string;
4813: { DelESpace trims trailing spaces from the given string. }
4814: function DelRSpace(const S: string): string;
4815: { DelRSpace trims leading and trailing spaces from the given string. }
4816: function DelSpace1(const S: string): string;
4817: { DelSpace1 return a string with all non-single white spaces removed. }
4818: function Tab2Space(const S: string; Numb: Byte): string;
4819: { Tab2Space converts any tabulation character in the given string to the
4820:   Numb spaces characters. }
4821: function NPos(const C: Char; S: string; N: Integer): Integer;
4822: { NPos searches for a N-th position of substring C in a given string. }
4823: function MakeStr(C: Char; N: Integer): string; overload;
4824: {$IFNDEF COMPILER12_UP}
4825: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4826: {$ENDIF !COMPILER12_UP}
4827: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4828: { MakeStr return a string of length N filled with character C. }
4829: function AddChar(C: Char; const S: string; N: Integer): string;
4830: { AddChar return a string left-padded to length N with characters C. }
4831: function AddCharR(C: Char; const S: string; N: Integer): string;
4832: { AddCharR return a string right-padded to length N with characters C. }
4833: function LeftStr(const S: string; N: Integer): string;
4834: { LeftStr return a string right-padded to length N with blanks. }
4835: function RightStr(const S: string; N: Integer): string;
4836: { RightStr return a string left-padded to length N with blanks. }
4837: function CenterStr(const S: string; Len: Integer): string;
4838: { CenterStr centers the characters in the string based upon the Len specified. }
4839: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4840: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4841:   -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4842: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4843: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4844: function Copy2Symb(const S: string; Symb: Char): string;
4845: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4846: function Copy2SymbDel(var S: string; Symb: Char): string;
4847: { Copy2SymbDel returns a substring of a string S from beginning to first
4848:   character Symb and removes this substring from S. }
4849: function Copy2Space(const S: string): string;
4850: { Copy2Space returns a substring of a string S from beginning to first white space. }
4851: function Copy2SpaceDel(var S: string): string;
4852: { Copy2SpaceDel returns a substring of a string S from beginning to first
4853:   white space and removes this substring from S. }
4854: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4855: { Returns string, with the first letter of each word in uppercase,
4856:   all other letters in lowercase. Words are delimited by WordDelims. }
4857: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4858: { WordCount given a set of word delimiters, returns number of words in S. }
4859: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4860: { Given a set of word delimiters, returns start position of N'th word in S. }
4861: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4862: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4863: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4864: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4865:   delimiters, return the N'th word in S. }
4866: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4867: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4868:   that started from position Pos. }
4869: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4870: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4871: function QuotedString(const S: string; Quote: Char): string;
4872: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4873: function ExtractQuotedString(const S: string; Quote: Char): string;
4874: { ExtractQuotedString removes the Quote characters from the beginning and
4875:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4876: function FindPart(const HelpWilds, InputStr: string): Integer;
4877: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4878: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4879: { IsWild compares InputString with WildCard string and returns True if corresponds. }

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4880: function XorString(const Key, Src: ShortString): ShortString;
4881: function XorEncode(const Key, Source: string): string;
4882: function XorDecode(const Key, Source: string): string;
4883: { ** Command line routines ** }
4884: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4885: { ** Numeric string handling routines ** }
4886: function Numb2USA(const S: string): string;
4887: { Numb2USA converts numeric string S to USA-format. }
4888: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4889: { Dec2Hex converts the given value to a hexadecimal string representation
4890:   with the minimum number of digits (A) specified. }
4891: function Hex2Dec(const S: string): Longint;
4892: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4893: function Dec2Numb(N: Int64; A, B: Byte): string;
4894: { Dec2Numb converts the given value to a string representation with the
4895:   base equal to B and with the minimum number of digits (A) specified. }
4896: function Numb2Dec(S: string; B: Byte): Int64;
4897: { Numb2Dec converts the given B-based numeric string to the corresponding
4898:   integer value. }
4899: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4900: { IntToBin converts the given value to a binary string representation
4901:   with the minimum number of digits specified. }
4902: function IntToRoman(Value: Longint): string;
4903: { IntToRoman converts the given value to a roman numeric string representation. }
4904: function RomanToInt(const S: string): Longint;
4905: { RomanToInt converts the given string to an integer value. If the string
4906:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4907: function FindNotBlankCharPos(const S: string): Integer;
4908: function FindNotBlankCharPosW(const S: WideString): Integer;
4909: function AnsiChangeCase(const S: string): string;
4910: function WideChangeCase(const S: string): string;
4911: function StartsText(const SubStr, S: string): Boolean;
4912: function EndsText(const SubStr, S: string): Boolean;
4913: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4914: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4915: {$IFDEF UNIX}
4916: {$ENDIF UNIX}
4917: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4918: {$ENDIF UNIX}
4919: { begin JvFileUtil }
4920: function FileDateTime(const FileName: string): TDateTime;
4921: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4922: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4923: function NormalDir(const DirName: string): string;
4924: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4925: function ValidFileName(const FileName: string): Boolean;
4926: {$IFDEF MSWINDOWS}
4927: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4928: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4929: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4930: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4931: {$ENDIF MSWINDOWS}
4932: function GetWindowsDir: string;
4933: function GetSystemDir: string;
4934: function ShortToLongFileName(const ShortName: string): string;
4935: function LongToShortFileName(const LongName: string): string;
4936: function ShortToLongPath(const ShortName: string): string;
4937: function LongToShortPath(const LongName: string): string;
4938: {$IFDEF MSWINDOWS}
4939: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4940: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4941: {$ENDIF MSWINDOWS}
4942: { end JvFileUtil }
4943: // Works like PtInRect but includes all edges in comparision
4944: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4945: // Works like PtInRect but excludes all edges from comparision
4946: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4947: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
4948: function IsFourDigitYear: Boolean;
4949: { moved from JvJVCLUtils }
4950: //Open an object with the shell (url or something like that)
4951: function OpenObject(const Value: string): Boolean; overload;
4952: function OpenObject(Value: PChar): Boolean; overload;
4953: {$IFDEF MSWINDOWS}
4954: //Raise the last Exception
4955: procedure RaiseLastWin32; overload;
4956: procedure RaiseLastWin32(const Text: string); overload;
4957: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
4958: // significant 32 bits of a file's binary version number. Typically, this includes the major and minor
4959: // version placed together in one 32-bit Integer. I
4960: function GetFileVersion(const AFFileName: string): Cardinal;
4961: {$EXTERNALSYM GetFileVersion}
4962: //Get version of Shell.dll
4963: function GetShellVersion: Cardinal;
4964: {$EXTERNALSYM GetShellVersion}
4965: // CD functions on HW
4966: procedure OpenCdDrive;
4967: procedure CloseCdDrive;
4968: // returns True if Drive is accessible

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4967: function DiskInDrive(Drive: Char): Boolean;
4968: {$ENDIF MSWINDOWS}
4969: //Same as linux function ;
4970: procedure PError(const Text: string);
4971: // execute a program without waiting
4972: procedure Exec(const FileName, Parameters, Directory: string);
4973: // execute a program and wait for it to finish
4974: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
4975: // returns True if this is the first instance of the program that is running
4976: function FirstInstance(const ATitle: string): Boolean;
4977: // restores a window based on it's classname and Caption. Either can be left empty
4978: // to widen the search
4979: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4980: // manipulate the traybar and start button
4981: procedure HideTraybar;
4982: procedure ShowTraybar;
4983: procedure ShowStartButton(Visible: Boolean = True);
4984: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
4985: procedure MonitorOn;
4986: procedure MonitorOff;
4987: procedure LowPower;
4988: // send a key to the window named AppName
4989: function SendKey(const AppName: string; Key: Char): Boolean;
4990: {$IFDEF MSWINDOWS}
4991: // returns a list of all win currently visible, the Objects property is filled with their window handle
4992: procedure GetVisibleWindows(List: TStrings);
4993: Function GetVisibleWindowsF( List : TStrings):TStrings';
4994: // associates an extension to a specific program
4995: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
4996: procedure AddToRecentDocs(const FileName: string);
4997: function GetRecentDocs: TStringList;
4998: {$ENDIF MSWINDOWS}
4999: function CharIsMoney(const Ch: Char): Boolean;
5000: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5001: function IntToExtended(I: Integer): Extended;
5002: { GetChangedText works out the new text given the current cursor pos & the key pressed
5003: It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5004: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5005: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5006: //function StrIsInteger(const S: string): Boolean;
5007: function StrIsFloatMoney(const Ps: string): Boolean;
5008: function StrIsDateTime(const Ps: string): Boolean;
5009: function PreformatDateString(Ps: string): string;
5010: function BooleanToInteger(const B: Boolean): Integer;
5011: function StringToBoolean(const Ps: string): Boolean;
5012: function SafeStrToDate(const Ps: string): TDateTime;
5013: function SafeStrToDate(const Ps: string): TDateTime;
5014: function SafeStrToTime(const Ps: string): TDateTime;
5015: function StrDelete(const psSub, psMain: string): string;
5016: { returns the fractional value of pcValue}
5017: function TimeOnly(pcValue: TDateTime): TTime;
5018: { returns the integral value of pcValue }
5019: function DateOnly(pcValue: TDateTime): TDate;
5020: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5021: const { TDateTime value used to signify Null value}
5022: NullEquivalentDate: TDateTime = 0.0;
5023: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5024: // Replacement for Win32Check to avoid platform specific warnings in D6
5025: function OSCheck(RetVal: Boolean): Boolean;
5026: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5027: Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5028: not be forced to use FileCtrl unnecessarily }
5029: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5030: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5031: { MinimizeString truncates long string, S, and appends...' symbols,if Length of S is more than MaxLen }
5032: function MinimizeString(const S: string; const MaxLen: Integer): string;
5033: procedure RunDl13Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5034: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
      minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
      found.}
5035: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5036: {$ENDIF MSWINDOWS}
5037: procedure ResourceNotFound(ResID: PChar);
5038: function EmptyRect: TRect;
5039: function RectWidth(R: TRect): Integer;
5040: function RectHeight(R: TRect): Integer;
5041: function CompareRect(const R1, R2: TRect): Boolean;
5042: procedure RectNormalize(var R: TRect);
5043: function RectIsSquare(const R: TRect): Boolean;
5044: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5045: //If AMaxSize = -1 ,then auto calc Square's max size
5046: {$IFDEF MSWINDOWS}
5047: procedure FreeUnusedOle;
5048: function GetWindowsVersion: string;
5049: function LoadDLL(const LibName: string): THandle;
5050: function RegisterServer(const ModuleName: string): Boolean;
5051: function UnregisterServer(const ModuleName: string): Boolean;
5052: {$ENDIF MSWINDOWS}

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5053: { String routines }
5054: function GetEnvVar(const VarName: string): string;
5055: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5056: function StringToPChar(var S: string): PChar;
5057: function StrPAAlloc(const S: string): PChar;
5058: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5059: function DropT(const S: string): string;
5060: { Memory routines }
5061: function AllocMemo(Size: Longint): Pointer;
5062: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5063: procedure FreeMemo(var fpBlock: Pointer);
5064: function GetMemoSize(fpBlock: Pointer): Longint;
5065: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5066: { Manipulate huge pointers routines }
5067: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5068: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5069: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5070: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5071: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5072: function WindowClassName(Wnd: THandle): string;
5073: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5074: procedure ActivateWindow(Wnd: THandle);
5075: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5076: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5077: { SetWindowTop put window to top without recreating window }
5078: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5079: procedure CenterWindow(Wnd: THandle);
5080: function MakeVariant(const Values: array of Variant): Variant;
5081: { Convert dialog units to pixels and backwards }
5082: {$IFDEF MSWINDOWS}
5083: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5084: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5085: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5086: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5087: {$ENDIF MSWINDOWS}
5088: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5089: {$IFDEF BCB}
5090: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5091: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5092: {$ELSE}
5093: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5094: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5095: {$ENDIF BCB}
5096: {$IFDEF MSWINDOWS}
5097: { BrowseForFolderNative displays Browse For Folder dialog }
5098: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5099: {$ENDIF MSWINDOWS}
5100: procedure AntiAlias(Clip: TBitmap);
5101: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5102: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5103: ABitmap: TBitmap; const SourceRect: TRect);
5104: function IsTrueType(const FontName: string): Boolean;
5105: // Removes all non-numeric characters from AValue and returns the resulting string
5106: function TextToValText(const AValue: string): string;
5107: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean
5108: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings)
5109: Function ReplaceRegExpr( const ARegExpr,AInputStr,
      AReplaceStr:RegExprString;AUseSubstitution:bool):RegExprString;
5110: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString
5111: Function RegExprSubExpressions(const ARegExpr:string; ASubExprs:TStrings; AExtendedSyntax : boolean) :
5112:
5113: *****unit uPSI_JvTFUtils;
5114: Function JExtractYear( ADate : TDateTime ) : Word
5115: Function JExtractMonth( ADate : TDateTime ) : Word
5116: Function JExtractDay( ADate : TDateTime ) : Word
5117: Function ExtractHours( ATime : TDateTime ) : Word
5118: Function ExtractMins( ATime : TDateTime ) : Word
5119: Function ExtractSecs( ATime : TDateTime ) : Word
5120: Function ExtractMSecs( ATime : TDateTime ) : Word
5121: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5122: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5123: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5124: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )
5125: Procedure IncDOW( var DOW : TTFDayOfWeek; N : Integer )
5126: Procedure IncDays( var ADate : TDateTime; N : Integer )
5127: Procedure IncWeeks( var ADate : TDateTime; N : Integer )
5128: Procedure IncMonths( var ADate : TDateTime; N : Integer )
5129: Procedure IncYears( var ADate : TDateTime; N : Integer )
5130: Function EndOfMonth( ADate : TDateTime ) : TDateTime
5131: Function IsFirstOfMonth( ADate : TDateTime ) : Boolean
5132: Function IsEndOfMonth( ADate : TDateTime ) : Boolean
5133: Procedure EnsureMonth( Month : Word )
5134: Procedure EnsureDOW( DOW : Word )
5135: Function EqualDates( D1, D2 : TDateTime ) : Boolean
5136: Function Lesser( N1, N2 : Integer ) : Integer
5137: Function Greater( N1, N2 : Integer ) : Integer
5138: Function GetDivLength( TotalLength, DivCount, DivNum : Integer ) : Integer
5139: Function GetDivNum( TotalLength, DivCount, X : Integer ) : Integer
5140: Function GetDivStart( TotalLength, DivCount, DivNum : Integer ) : Integer

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5141: Function DOWToBorl( ADOW : TTFFDayOfWeek) : Integer
5142: Function BorlToDOW( BorlDOW : Integer) : TTFFDayOfWeek
5143: Function DateToDOW( ADate : TDateTime) : TTFFDayOfWeek
5144: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
  AFont:TFont; AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5145: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
  HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5146: Function JRectWidth( ARect : TRect) : Integer
5147: Function JRectHeight( ARect : TRect) : Integer
5148: Function JEmptyRect : TRect
5149: Function IsClassByName( Obj : TObject; ClassName : string) : Boolean
5150:
5151: procedure SIRегистer_MSysUtils(CL: TPSPPascalCompiler);
5152: begin
5153:   Procedure HideTaskBarButton( hWindow : HWND)
5154:   Function msLoadStr( ID : Integer) : String
5155:   Function msFormat( fmt : String; params : array of const) : String
5156:   Function msFileExists( const FileName : String) : Boolean
5157:   Function msIntToStr( Int : Int64) : String
5158:   Function msStrPas( const Str : PChar) : String
5159:   Function msRenameFile( const OldName, NewName : String) : Boolean
5160:   Function CutFileName( s : String) : String
5161:   Function GetVersionInfo( var VersionString : String) : DWORD
5162:   Function FormatTime( t : Cardinal) : String
5163:   Function msCreateDir( const Dir : string) : Boolean
5164:   Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5165:   Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5166:   Function msStrLen( Str : PChar) : Integer
5167:   Function msDirectoryExists( const Directory : String) : Boolean
5168:   Function GetFolder( hWnd : hWnd; RootDir : Integer; Caption : String) : String
5169:   Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5170:   Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5171:   Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5172:   Function GetTextFromFile( Filename : String) : string
5173:   Function IsTopMost( hWnd : HWND) : Bool // 'IWA_ALPHA','LongWord').SetUInt( $00000002);
5174:   Function msStrToIntDef( const s : String; const i : Integer) : Integer
5175:   Function msStrToInt( s : String) : Integer
5176:   Function GetItemText( hDlg : THandle; ID : DWORD) : String
5177: end;
5178:
5179: procedure SIRегистer_ESBMaths2(CL: TPSPPascalCompiler);
5180: begin
5181:   //TDynFloatArray', 'array of Extended
5182:   TDynLWordArray', 'array of LongWord
5183:   TDynLIntArray', 'array of LongInt
5184:   TDynFloatMatrix', 'array of TDynFloatArray
5185:   TDynLWordMatrix', 'array of TDynLWordArray
5186:   TDynLIntMatrix', 'array of TDynLIntArray
5187:   Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5188:   Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5189:   Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5190:   Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5191:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5192:   Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5193:   Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5194:   Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5195:   Function DotProduct( const X, Y : TDynFloatArray) : Extended
5196:   Function MNorm( const X : TDynFloatArray) : Extended
5197:   Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5198:   Procedure MatrixDimensions( const X:TDynFloatMatrix; var Rows,Columns:LongWord; var Rectangular:Boolean);
5199:   Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5200:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5201:   Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5202:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5203:   Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5204:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5205:   Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5206:   Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5207:   Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5208:   Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5209:   Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5210: end;
5211:
5212: procedure SIRегистer_ESBMaths(CL: TPSPPascalCompiler);
5213: begin
5214:   'ESBMinSingle','Single').setExtended( 1.5e-45);
5215:   'ESBMaxSingle','Single').setExtended( 3.4e+38);
5216:   'ESBMinDouble','Double').setExtended( 5.0e-324);
5217:   'ESBMaxDouble','Double').setExtended( 1.7e+308);
5218:   'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5219:   'ESBMaxExtended','Extended').setExtended( 1.1e+4932);
5220:   'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807);
5221:   'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807);
5222:   'ESBSqrt2','Extended').setExtended( 1.4142135623730950488);
5223:   'ESBSqrt3','Extended').setExtended( 1.7320508075688772935);
5224:   'ESBSqrt5','Extended').setExtended( 2.2360679774997896964);
5225:   'ESBSqrt10','Extended').setExtended( 3.1622776601683793320);
5226:   'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729);
5227:   'ESBCbrt2','Extended').setExtended( 1.2599210498948731648);

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5228: 'ESBCbrt3','Extended').setExtended( 1.4422495703074083823);
5229: 'ESBCbrt10','Extended').setExtended( 2.1544346900318837219);
5230: 'ESBCbrt100','Extended').setExtended( 4.6415888336127788924);
5231: 'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630);
5232: 'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440);
5233: 'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451);
5234: 'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928);
5235: 'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695);
5236: 'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147);
5237: 'ESBe','Extended').setExtended( 2.7182818284590452354);
5238: 'ESBe2','Extended').setExtended( 7.3890560989306502272);
5239: 'ESBePi','Extended').setExtended( 23.140692632779269006);
5240: 'ESBePiOn2','Extended').setExtended( 4.8104773809653516555);
5241: 'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5242: 'ESBLn2','Extended').setExtended( 0.69314718055994530942);
5243: 'ESBLn10','Extended').setExtended( 2.30258509299404568402);
5244: 'ESBLnPi','Extended').setExtended( 1.14472988584940017414);
5245: 'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478);
5246: 'ESBLog2Base10','Extended').setExtended( 0.301029995663398119521);
5247: 'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730);
5248: 'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339);
5249: 'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765);
5250: 'ESBPi','Extended').setExtended( 3.1415926535897932385);
5251: 'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1);
5252: 'ESBTwopi','Extended').setExtended( 6.2831853071795864769);
5253: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5254: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5255: 'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5256: 'ESBPiOn2','Extended').setExtended( 1.5707962267948966192);
5257: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5258: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5259: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5260: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5261: 'ESBTwotoPower63','Extended').setExtended( 9223372036854775808.0);
5262: 'ESBoneRadian','Extended').setExtended( 57.295779513082320877);
5263: 'ESBoneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5264: 'ESBoneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5265: 'ESBoneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5266: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5267: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5268: //LongWord', 'Cardinal
5269: TBitList', 'Word
5270: Function UMul( const Num1, Num2 : LongWord) : LongWord
5271: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5272: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5273: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5274: Function SameFloat( const X1, X2 : Extended) : Boolean
5275: Function FloatIsZero( const X : Extended) : Boolean
5276: Function FloatIsPositive( const X : Extended) : Boolean
5277: Function FloatIsNegative( const X : Extended) : Boolean
5278: Procedure IncLim( var B : Byte; const Limit : Byte)
5279: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5280: Procedure IncLimW( var B : Word; const Limit : Word)
5281: Procedure IncLimI( var B : Integer; const Limit : Integer)
5282: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5283: Procedure DecLim( var B : Byte; const Limit : Byte)
5284: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5285: Procedure DecLimW( var B : Word; const Limit : Word)
5286: Procedure DecLimI( var B : Integer; const Limit : Integer)
5287: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5288: Function MaxB( const B1, B2 : Byte) : Byte
5289: Function MinB( const B1, B2 : Byte) : Byte
5290: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5291: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5292: Function MaxW( const B1, B2 : Word) : Word
5293: Function MinW( const B1, B2 : Word) : Word
5294: Function esbMaxI( const B1, B2 : Integer) : Integer
5295: Function esbMinI( const B1, B2 : Integer) : Integer
5296: Function MaxL( const B1, B2 : LongInt) : LongInt
5297: Function MinL( const B1, B2 : LongInt) : LongInt
5298: Procedure SwapB( var B1, B2 : Byte)
5299: Procedure SwapSI( var B1, B2 : ShortInt)
5300: Procedure SwapW( var B1, B2 : Word)
5301: Procedure SwapI( var B1, B2 : SmallInt)
5302: Procedure SwapL( var B1, B2 : LongInt)
5303: Procedure SwapI32( var B1, B2 : Integer)
5304: Procedure SwapC( var B1, B2 : LongWord)
5305: Procedure SwapInt64( var X, Y : Int64)
5306: Function esbsign( const B : LongInt) : ShortInt
5307: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5308: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5309: Function Max3Word( const X1, X2, X3 : Word) : Word
5310: Function Min3Word( const X1, X2, X3 : Word) : Word
5311: Function MaxBArray( const B : array of Byte) : Byte
5312: Function MaxWArray( const B : array of Word) : Word
5313: Function MaxSIArray( const B : array of ShortInt) : ShortInt
5314: Function MaxIArray( const B : array of Integer) : Integer
5315: Function MaxLArray( const B : array of LongInt) : LongInt
5316: Function MinBArray( const B : array of Byte) : Byte

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5317: Function MinWArray( const B : array of Word) : Word
5318: Function MinSIArray( const B : array of ShortInt) : ShortInt
5319: Function MiniIArray( const B : array of Integer) : Integer
5320: Function MinLArray( const B : array of LongInt) : LongInt
5321: Function SumBArray( const B : array of Byte) : Byte
5322: Function SumBArray2( const B : array of Byte) : Word
5323: Function SumSIArray( const B : array of ShortInt) : ShortInt
5324: Function SumSIArray2( const B : array of ShortInt) : Integer
5325: Function SumWArray( const B : array of Word) : Word
5326: Function SumWArray2( const B : array of Word) : LongInt
5327: Function SumIArray( const B : array of Integer) : Integer
5328: Function SumLArray( const B : array of LongInt) : LongInt
5329: Function SumLWArray( const B : array of LongWord) : LongWord
5330: Function ESBDigits( const X : LongWord) : Byte
5331: Function BitsHighest( const X : LongWord) : Integer
5332: Function ESBBitsNeeded( const X : LongWord) : Integer
5333: Function esbGCD( const X, Y : LongWord) : LongWord
5334: Function esbLCM( const X, Y : LongInt) : Int64
5335: //Function esbLCM( const X, Y : LongInt) : LongInt
5336: Function RelativePrime( const X, Y : LongWord) : Boolean
5337: Function Get87ControlWord : TBitList
5338: Procedure Set87ControlWord( const CWord : TBitList)
5339: Procedure SwapExt( var X, Y : Extended)
5340: Procedure SwapDbl( var X, Y : Double)
5341: Procedure SwapSing( var X, Y : Single)
5342: Function esbSgn( const X : Extended) : ShortInt
5343: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5344: Function ExtMod( const X, Y : Extended) : Extended
5345: Function ExtRem( const X, Y : Extended) : Extended
5346: Function CompMOD( const X, Y : Comp) : Comp
5347: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5348: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5349: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5350: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5351: Function MaxExt( const X, Y : Extended) : Extended
5352: Function MinExt( const X, Y : Extended) : Extended
5353: Function MaxEArray( const B : array of Extended) : Extended
5354: Function MinEArray( const B : array of Extended) : Extended
5355: Function MaxSArray( const B : array of Single) : Single
5356: Function MinSArray( const B : array of Single) : Single
5357: Function MaxCArray( const B : array of Comp) : Comp
5358: Function MinCArray( const B : array of Comp) : Comp
5359: Function SumSArray( const B : array of Single) : Single
5360: Function SumEArray( const B : array of Extended) : Extended
5361: Function SumSqEArray( const B : array of Extended) : Extended
5362: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5363: Function SumXxEArray( const X, Y : array of Extended) : Extended
5364: Function SumCArray( const B : array of Comp) : Comp
5365: Function FactorialX( A : LongWord) : Extended
5366: Function PermutationX( N, R : LongWord) : Extended
5367: Function esbBinomialCoeff( N, R : LongWord) : Extended
5368: Function IsPositiveEArray( const X : array of Extended) : Boolean
5369: Function esbGeometricMean( const X : array of Extended) : Extended
5370: Function esbHarmonicMean( const X : array of Extended) : Extended
5371: Function ESBMean( const X : array of Extended) : Extended
5372: Function esbSampleVariance( const X : array of Extended) : Extended
5373: Function esbPopulationVariance( const X : array of Extended) : Extended
5374: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5375: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5376: Function GetMedian( const SortedX : array of Extended) : Extended
5377: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5378: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5379: Function ESBMagnitude( const X : Extended) : Integer
5380: Function ESBTan( Angle : Extended) : Extended
5381: Function ESBCot( Angle : Extended) : Extended
5382: Function ESBCosec( const Angle : Extended) : Extended
5383: Function ESSec( const Angle : Extended) : Extended
5384: Function ESBArctan( X, Y : Extended) : Extended
5385: Procedure ESBSinCos( Angle : Extended; var SinX, CosX : Extended)
5386: Function ESBArcCos( const X : Extended) : Extended
5387: Function ESBArcSin( const X : Extended) : Extended
5388: Function ESBArcSec( const X : Extended) : Extended
5389: Function ESBArcCosec( const X : Extended) : Extended
5390: Function ESBLog10( const X : Extended) : Extended
5391: Function ESBLog2( const X : Extended) : Extended
5392: Function ESBLogBase( const X, Base : Extended) : Extended
5393: Function Pow2( const X : Extended) : Extended
5394: Function IntPow( const Base : Extended; const Exponent : LongWord) : Extended
5395: Function ESBIntPower( const X : Extended; const N : LongInt) : Extended
5396: Function XtoY( const X, Y : Extended) : Extended
5397: Function esbTenToY( const Y : Extended) : Extended
5398: Function esbTwoToY( const Y : Extended) : Extended
5399: Function LogXtoBaseY( const X, Y : Extended) : Extended
5400: Function esbISqrt( const I : LongWord) : Longword
5401: Function ILlog2( const I : LongWord) : LongWord
5402: Function IGreatestPowerOf2( const N : LongWord) : LongWord
5403: Function ESBArCosh( X : Extended) : Extended
5404: Function ESBArSinh( X : Extended) : Extended
5405: Function ESBArTanh( X : Extended) : Extended

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

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5490: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5491: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger; var AResult : TXRTLInteger)
5492: Procedure XRTLSLBL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5493: Procedure XRTLSABL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5494: Procedure XRTLRCBL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5495: Procedure XRTLSLDL( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult:TXRTLInteger)
5496: Procedure XRTLSADL( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5497: Procedure XRTLRCDL( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5498: Procedure XRTLSLBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5499: Procedure XRTLSABR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5500: Procedure XRTLRCBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5501: Procedure XRTLSSLDR( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5502: Procedure XRTLSADR( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5503: Procedure XRTLRCDR( const AInteger : TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5504: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer) : string
5505: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer) : string
5506: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer) : string
5507: Procedure XRTLFFromHex( const Value : string; var AResult : TXRTLInteger)
5508: Procedure XRTLFFromBin( const Value : string; var AResult : TXRTLInteger)
5509: Procedure XRTLFFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer)
5510: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger);
5511: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger);
5512: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger);
5513: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger)
5514: Procedure XRTLSplit( const AInteger : TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5515: Function XRTLGetMSBitIndex( const AInteger : TXRTLInteger) : Integer
5516: Procedure XRTLMInMax( const AInteger1, AInteger2 : TXRTLInteger; var AMinResult,AMaxResult: TXRTLInteger)
5517: Procedure XRTLMIn( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5518: Procedure XRTLMIn1( const AInteger1 : TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger);
5519: Procedure XRTLMMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5520: Procedure XRTLMMax1( const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger);
5521: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5522: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger)
5523: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5524: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5525: end;
5526:
5527: procedure SIRegister_JvXPCoreUtils(CL: TPSPascalCompiler);
5528: begin
5529:   Function JvXPMETHODSEqual( const Method1, Method2 : TMethod) : Boolean
5530:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer)
5531:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap);
5532:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect)
5533:   Procedure JvXPDrawBoundLines(const ACan:TCanvas;const BoundLns:TJvXPBoundLns;const
      AColor:TColor;Rect:TRect)
5534:   Procedure JvXPConvertToGray2( Bitmap : TBitmap)
5535:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer)
5536:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool;
5537:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor)
5538:   Procedure JvXPSetDrawFlags(const AAlignment:TAlignment;const AWordWrap: Boolean; var Flags : Integer)
5539:   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)
5540: end;
5541:
5542:
5543: procedure SIRegister_uwinstr(CL: TPSPascalCompiler);
5544: begin
5545:   Function StrDec( S : String) : String
5546:   Function uIsNumeric( var S : String; var X : Float) : Boolean
5547:   Function ReadNumFromEdit( Edit : TEdit) : Float
5548:   Procedure WriteNumToFile( var F : Text; X : Float)
5549: end;
5550:
5551: procedure SIRegister_utexplot(CL: TPSPascalCompiler);
5552: begin
5553:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean) : Boolean
5554:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
5555:   Procedure TeX_LeaveGraphics( Footer : Boolean)
5556:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5557:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5558:   Procedure TeX_SetGraphTitle( Title : String)
5559:   Procedure TeX_SetOxTitle( Title : String)
5560:   Procedure TeX_SetOyTitle( Title : String)
5561:   Procedure TeX_PlotOxAxis
5562:   Procedure TeX_PlotOyAxis
5563:   Procedure TeX_PlotGrid( Grid : TGrid)
5564:   Procedure TeX_WriteGraphTitle
5565:   Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5566:   Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5567:   Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5568:   Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5569:   Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5570:   Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5571:   Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)

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5572: Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5573: Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5574: Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5575: Function Xcm( X : Float ) : Float
5576: Function Ycm( Y : Float ) : Float
5577: end;
5578:
5579: *-----*)
5580: procedure SIRegister_VarRecUtils(CL: TPSPPascalCompiler);
5581: begin
5582:   TConstArray', 'array of TVarRec
5583:   Function CopyVarRec( const Item : TVarRec ) : TVarRec
5584:   Function CreateConstArray( const Elements : array of const ) : TConstArray
5585:   Procedure FinalizeVarRec( var Item : TVarRec )
5586:   Procedure FinalizeConstArray( var Arr : TConstArray )
5587: end;
5588:
5589: procedure SIRegister_StStrS(CL: TPSPPascalCompiler);
5590: begin
5591:   Function HexBS( B : Byte ) : ShortString
5592:   Function HexWS( W : Word ) : ShortString
5593:   Function HexLS( L : LongInt ) : ShortString
5594:   Function HexPtrs( P : Pointer ) : ShortString
5595:   Function BinaryBS( B : Byte ) : ShortString
5596:   Function BinaryWS( W : Word ) : ShortString
5597:   Function BinaryLS( L : LongInt ) : ShortString
5598:   Function OctalBS( B : Byte ) : ShortString
5599:   Function OctalWS( W : Word ) : ShortString
5600:   Function OctalLS( L : LongInt ) : ShortString
5601:   Function Str2Int16S( const S : ShortString; var I : SmallInt ) : Boolean
5602:   Function Str2Words( const S : ShortString; var I : Word ) : Boolean
5603:   Function Str2LongS( const S : ShortString; var I : LongInt ) : Boolean
5604:   Function Str2Reals( const S : ShortString; var R : Double ) : Boolean
5605:   Function Str2Reals( const S : ShortString; var R : Real ) : Boolean
5606:   Function Str2ExtS( const S : ShortString; var R : Extended ) : Boolean
5607:   Function Long2StrS( L : LongInt ) : ShortString
5608:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt ) : ShortString
5609:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt ) : ShortString
5610:   Function ValPrepS( const S : ShortString ) : ShortString
5611:   Function CharStrS( C : AnsiChar; Len : Cardinal ) : ShortString
5612:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal ) : ShortString
5613:   Function PadS( const S : ShortString; Len : Cardinal ) : ShortString
5614:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal ) : ShortString
5615:   Function LeftPadS( const S : ShortString; Len : Cardinal ) : ShortString
5616:   Function TrimLeadS( const S : ShortString ) : ShortString
5617:   Function TrimTrailsS( const S : ShortString ) : ShortString
5618:   Function TrimS( const S : ShortString ) : ShortString
5619:   Function TrimSpacesS( const S : ShortString ) : ShortString
5620:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal ) : ShortString
5621:   Function Centers( const S : ShortString; Len : Cardinal ) : ShortString
5622:   Function EntabS( const S : ShortString; TabSize : Byte ) : ShortString
5623:   Function DatabS( const S : ShortString; Tabsize : Byte ) : ShortString
5624:   Function ScrambleS( const S, Key : ShortString ) : ShortString
5625:   Function SubstituteS( const S, FromStr,ToStr : ShortString ) : ShortString
5626:   Function FilterS( const S, Filters : ShortString ) : ShortString
5627:   Function CharExistsS( const S : ShortString; C : AnsiChar ) : Boolean
5628:   Function CharCountS( const S : ShortString; C : AnsiChar ) : Byte
5629:   Function WordCounts( const S, WordDelims : ShortString ) : Cardinal
5630:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal ) : Boolean
5631:   Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString ) : ShortString
5632:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar ) : Cardinal
5633:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5634:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5635:   Procedure WordWrapS(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5636:   Function CompStringS( const S1, S2 : ShortString ) : Integer
5637:   Function CompUCSStringS( const S1, S2 : ShortString ) : Integer
5638:   Function SoundexS( const S : ShortString ) : ShortString
5639:   Function MakeLetterSetS( const S : ShortString ) : Longint
5640:   Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable )
5641:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5642:   Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5643:   Function DefaultExtensionS( const Name, Ext : ShortString ) : ShortString
5644:   Function ForceExtensionS( const Name, Ext : ShortString ) : ShortString
5645:   Function JustFilenameS( const PathName : ShortString ) : ShortString
5646:   Function JustNameS( const PathName : ShortString ) : ShortString
5647:   Function JustExtensionS( const Name : ShortString ) : ShortString
5648:   Function JustPathnameS( const PathName : ShortString ) : ShortString
5649:   Function AddBackSlashS( const DirName : ShortString ) : ShortString
5650:   Function CleanPathNameS( const PathName : ShortString ) : ShortString
5651:   Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal ) : Boolean
5652:   Function CommaizeS( L : LongInt ) : ShortString
5653:   Function CommaizeChS( L : Longint; Ch : AnsiChar ) : ShortString
5654:   Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr,RtCurr:SString;Sep,
DecPt:Char):ShortString;
5655:   Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;

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5656: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal ) : Boolean
5657: Function StrStPosS( const P, S : ShortString; var Pos : Cardinal ) : Boolean
5658: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5659: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal ) : ShortString
5660: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal ) : ShortString
5661: Function StrChDeleteS( const S : ShortString; Pos : Cardinal ) : ShortString
5662: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5663: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5664: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5665: Function CopyLeftS( const S : ShortString; Len : Cardinal ) : ShortString
5666: Function CopyMidS( const S : ShortString; First, Len : Cardinal ) : ShortString
5667: Function CopyRightS( const S : ShortString; First : Cardinal ) : ShortString
5668: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal ) : ShortString
5669: Function CopyFromNthWordS( const S, WordDelims:string;const AWord:ShortString;N:Card;var
SubString:ShortString):Bool;
5670: Function DeleteFromNthWordS( const S, WordDelims:ShortString;N:Card;var
SubStr:ShortString):Bool;
5671: Function CopyFromToWordsS( const S, WordDelims, Word1, Word2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5672: Function DeleteFromToWordsS( const S, WordDelims, Wrld1, Wrld2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5673: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean ) : ShortString
5674: Function DeleteWithinS( const S, Delimiter : ShortString ) : ShortString
5675: Function ExtractTokensS( const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings ):Cardinal
5676: Function IsChAlphaS( C : Char ) : Boolean
5677: Function IsChNumericS( C : Char; const Numbers : ShortString ) : Boolean
5678: Function IsChAlphaNumericS( C : Char; const Numbers : ShortString ) : Boolean
5679: Function IsStrAlphaS( const S : Shortstring ) : Boolean
5680: Function IsStrNumericS( const S, Numbers : ShortString ) : Boolean
5681: Function IsStrAlphaNumericS( const S, Numbers : ShortString ) : Boolean
5682: Function LastWordS( const S, WordDelims, AWord : ShortString; var Position : Cardinal ) : Boolean
5683: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal ) : Boolean
5684: Function LastStringS( const S, AString : ShortString; var Position : Cardinal ) : Boolean
5685: Function LeftTrimCharsS( const S, Chars : ShortString ) : ShortString
5686: Function KeepCharsS( const S, Chars : ShortString ) : ShortString
5687: Function RepeatStringS( const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5688: Function ReplaceStringS( const S,OldStr,NewStr:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5689: Function ReplaceStringAllS( const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5690: Function ReplaceWordS( const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var
Replacements:Cardinal):ShortString
5691: Function ReplaceWordAllS( const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5692: Function RightTrimCharsS( const S, Chars : ShortString ) : ShortString
5693: Function StrWithinS( const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5694: Function TrimCharsS( const S, Chars : ShortString ) : ShortString
5695: Function WordPosS( const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5696: end;
5697:
5698:
5699: *****unit uPSI_StUtils; from SysTools4***** ****
5700: Function SignL( L : LongInt ) : Integer
5701: Function SignF( F : Extended ) : Integer
5702: Function MinWord( A, B : Word ) : Word
5703: Function MidWord( W1, W2, W3 : Word ) : Word
5704: Function MaxWord( A, B : Word ) : Word
5705: Function MinLong( A, B : LongInt ) : LongInt
5706: Function MidLong( L1, L2, L3 : LongInt ) : LongInt
5707: Function MaxLong( A, B : LongInt ) : LongInt
5708: Function MinFloat( F1, F2 : Extended ) : Extended
5709: Function MidFloat( F1, F2, F3 : Extended ) : Extended
5710: Function MaxFloat( F1, F2 : Extended ) : Extended
5711: Function MakeInteger16( H, L : Byte ) : SmallInt
5712: Function MakeWordS( H, L : Byte ) : Word
5713: Function SwapNibble( B : Byte ) : Byte
5714: Function SwapWord( L : LongInt ) : LongInt
5715: Procedure SetFlag( var Flags : Word; FlagMask : Word )
5716: Procedure ClearFlag( var Flags : Word; FlagMask : Word )
5717: Function FlagIsSet( Flags, FlagMask : Word ) : Boolean
5718: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte )
5719: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte )
5720: Function ByteFlagIsSet( Flags, FlagMask : Byte ) : Boolean
5721: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt )
5722: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt )
5723: Function LongFlagIsSet( Flags, FlagMask : LongInt ) : Boolean
5724: Procedure ExchangeBytes( var I, J : Byte )
5725: Procedure ExchangeWords( var I, J : Word )
5726: Procedure ExchangeLongInts( var I, J : LongInt )
5727: Procedure ExchangeStructs( var I, J, Size : Cardinal )
5728: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word )
5729: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal )
5730: Function AddWordToPtr( P : __Pointer; W : Word ) : __Pointer
5731: //*****uPSI_StFIN;*****
5732: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis) : Extended
5733: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
Par:Extended;Frequency:TStFrequency; Basis : TStBasis) : Extended
5734: Function BondDuration( Settlement,Maturity:TStDate;Rate,
Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended;

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5735: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis):
5736:   Extended
5737: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
5738:   Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5739: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
5740:   Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5741: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis ) : LongInt
5742: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5743: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis): Extended;
5744: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5745: Function DollarToDecimalText( DecDollar : Extended ) : string
5746: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
5747:   PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended
5748: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5749: Function InterestRateS(NPeriods:Int;Pmt,PV,
5750:   FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5751: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5752: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5753: Function IsCardValid( const S : string ) : Boolean
5754: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
5755:   Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5756: Function ModifiedIRR(const Values: array of Double; FinanceRate,ReinvestRate: Extended ) : Extended
5757: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended ) : Extended
5758: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5759: Function NetPresentValue16( Rate : Extended; const Values : array of Double; NValues : Integer ) : Extended
5760: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5761: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5762: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
5763:   : TStPaymentTime ) : Extended
5764: Function PresentValueS( Rate : Extended; NPeriods : Integer; Pmt, FV : Extended; Frequency : TStFrequency;
5765:   Timing : TStPaymentTime ) : Extended
5766: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5767: Function Round.ToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5768: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5769: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5770: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5771: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
5772:   Factor : Extended; NoSwitch : boolean ) : Extended
5773: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5774: //*****unit uPSI_StAstroP;
5775: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5776: //****unit unit uPSI_StStat; Statistic Package of SysTools*****
5777: Function AveDev( const Data : array of Double ) : Double
5778: Function AveDev16( const Data, NData : Integer ) : Double
5779: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5780: Function Correlation( const Data1, Data2 : array of Double ) : Double
5781: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5782: Function Covariance( const Data1, Data2 : array of Double ) : Double
5783: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5784: Function DevSq( const Data : array of Double ) : Double
5785: Function DevSq16( const Data, NData : Integer ) : Double
5786: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5787: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5788: Function GeometricMeanS( const Data : array of Double ) : Double
5789: Function GeometricMean16( const Data, NData : Integer ) : Double
5790: Function HarmonicMeanS( const Data : array of Double ) : Double
5791: Function HarmonicMean16( const Data, NData : Integer ) : Double
5792: Function Largest( const Data : array of Double; K : Integer ) : Double
5793: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5794: Function MedianS( const Data : array of Double ) : Double
5795: Function Median16( const Data, NData : Integer ) : Double
5796: Function Mode( const Data : array of Double ) : Double
5797: Function Mode16( const Data, NData : Integer ) : Double
5798: Function Percentile( const Data : array of Double; K : Double ) : Double
5799: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5800: Function PercentRank( const Data : array of Double; X : Double ) : Double
5801: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5802: Function Permutations( Number, NumberChosen : Integer ) : Extended
5803: Function Combinations( Number, NumberChosen : Integer ) : Extended
5804: Function FactorialS( N : Integer ) : Extended
5805: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5806: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5807: Function Smallest( const Data : array of Double; K : Integer ) : Double
5808: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5809: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5810: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5811: AddTypes('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB1 :
5812:   +1 : Double; R2 : Double; sigma :Double; SSr: double; SSe: Double; F0 : Double; df : Integer;end
5813: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var
      LF:TStLinEst;ErrorStats:Bool;

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5814: Procedure LogEst( const KnownY:array of Double;const KnownX:array of Double;var
5815:   LF:TStLinEst;ErrorStats:Bool );
5816: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5817: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5818: Function Intercept( const KnownY : array of Double; const KnownX : array of Double ) : Double
5819: Function RSquared( const KnownY : array of Double; const KnownX : array of Double ) : Double
5820: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double ) : Double
5821: Function BetaDist( X, Alpha, Beta, A, B : Single ) : Single
5822: Function BetaInv( Probability, Alpha, Beta, A, B : Single ) : Single
5823: Function BinomDist( Numbers, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5824: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single ) : Integer
5825: Function ChiDist( X : Single; DegreesFreedom : Integer ) : Single
5826: Function ChiInv( Probability : Single; DegreesFreedom : Integer ) : Single
5827: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5828: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5829: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5830: Function LogNormDist( X, Mean, StandardDev : Single ) : Single
5831: Function LogInv( Probability, Mean, StandardDev : Single ) : Single
5832: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5833: Function NormInv( Probability, Mean, StandardDev : Single ) : Single
5834: Function NormSDist( Z : Single ) : Single
5835: Function NormSInv( Probability : Single ) : Single
5836: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5837: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5838: Function TInv( Probability : Single; DegreesFreedom : Integer ) : Single
5839: Function Erfc( X : Single ) : Single
5840: Function GammaLn( X : Single ) : Single
5841: Function LargestSort( const Data : array of Double; K : Integer) : Double
5842: Function SmallestSort( const Data : array of double; K : Integer ) : Double
5843:
5844: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5845: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt ) : LongInt
5846: Function MinimumHeapToUse( RecLen : Cardinal ) : LongInt
5847: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt ) : TMergeInfo
5848: Function DefaultMergeName( MergeNum : Integer ) : string
5849: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc )
5850:
5851: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5852: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double ) : TStTime
5853: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double ) : TStRiseSetRec
5854: Function SunPos( UT : TStDateTimeRec ) : TStPosRec
5855: Function SunPosPrim( UT : TStDateTimeRec ) : TStSunXYZRec
5856: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5857: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight ):TStRiseSetRec
5858: Function LunarPhase( UT : TStDateTimeRec ) : Double
5859: Function MoonPos( UT : TStDateTimeRec ) : TStMoonPosRec
5860: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5861: Function FirstQuarter( D : TStDate ) : TStLunarRecord
5862: Function FullMoon( D : TStDate ) : TStLunarRecord
5863: Function LastQuarter( D : TStDate ) : TStLunarRecord
5864: Function NewMoon( D : TStDate ) : TStLunarRecord
5865: Function NextFirstQuarter( D : TStDate ) : TStDateTimeRec
5866: Function NextFullMoon( D : TStDate ) : TStDateTimeRec
5867: Function NextLastQuarter( D : TStDate ) : TStDateTimeRec
5868: Function NextNewMoon( D : TStDate ) : TStDateTimeRec
5869: Function PrevFirstQuarter( D : TStDate ) : TStDateTimeRec
5870: Function PrevFullMoon( D : TStDate ) : TStDateTimeRec
5871: Function PrevLastQuarter( D : TStDate ) : TStDateTimeRec
5872: Function PrevNewMoon( D : TStDate ) : TStDateTimeRec
5873: Function SiderealTime( UT : TStDateTimeRec ) : Double
5874: Function Solstice( Y, Epoch : Integer; Summer : Boolean ) : TStDateTimeRec
5875: Function Equinox( Y, Epoch : Integer; Vernal : Boolean ) : TStDateTimeRec
5876: Function SEaster( Y, Epoch : Integer ) : TStDate
5877: Function DateTimeToAJD( D : TDateTime ) : Double
5878: Function HoursMin( RA : Double ) : ShortString
5879: Function DegsMin( DC : Double ) : ShortString
5880: Function AJDToDate( D : Double ) : TDateTime
5881:
5882: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5883: Function CurrentDate : TStDate
5884: Function StValidDate( Day, Month, Year, Epoch : Integer ) : Boolean
5885: Function DMYtoStDate( Day, Month, Year, Epoch : Integer ) : TStDate
5886: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer )
5887: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer ) : TStDate
5888: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer ) : TStDate
5889: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer )
5890: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType ) : TStDate
5891: Function WeekOfYear( Julian : TStDate ) : Byte
5892: Function AstJulianDate( Julian : TStDate ) : Double
5893: Function AstJulianDatestoStDate( AstJulian : Double; Truncate : Boolean ) : TStDate
5894: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime ) : Double
5895: Function StDayOfWeek( Julian : TStDate ) : TStDayType
5896: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer ) : TStDayType
5897: Function StIsLeapYear( Year : Integer ) : Boolean
5898: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer ) : Integer
5899: Function ResolveEpoch( Year, Epoch : Integer ) : Integer
5900: Function ValidTime( Hours, Minutes, Seconds : Integer ) : Boolean
5901: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte )

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5902: Function HMStoSTime( Hours, Minutes, Seconds : Byte ) : TStTime
5903: Function CurrentTime : TStTime
5904: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte )
5905: Function StInCTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5906: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5907: Function RoundToNearestHour( T : TStTime; Truncate : Boolean ) : TStTime
5908: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean ) : TStTime
5909: Procedure DateTimeDiff( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt
5910: Procedure IncDateTime( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt )
5911: Function DateTimeToSTDate( DT : TDateTime ) : TStDate
5912: Function DateTimeToSTTime( DT : TDateTime ) : TStTime
5913: Function STDateToDateTime( D : TStDate ) : TDateTime
5914: Function STTime.ToDateTime( T : TStTime ) : TDateTime
5915: Function Convert2ByteDate( TwoByteDate : Word ) : TStDate
5916: Function Convert4ByteDate( FourByteDate : TStDate ) : Word
5917:
5918: Procedure SIRRegister_STDateST(CL: TPSpascalCompiler);
5919: Function DateStringHMStoASTJD( const Picture, DS : string; H, M, S, Epoch : integer ) : Double
5920: Function MonthToString( const Month : Integer ) : string
5921: Function DateStringToSTDate( const Picture, S : string; Epoch : Integer ) : TStDate
5922: Function DateStringToDMY( const Picture,S:string;Epoch:Integer; var D, M, Y : Integer):Boolean
5923: Function STDateToString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5924: Function DayOfWeekToString( const WeekDay : TStDayType) : string
5925: Function DMYToString( const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
5926: Function CurrentDateString( const Picture : string; Pack : Boolean ) : string
5927: Function CurrentTimeString( const Picture : string; Pack : Boolean ) : string
5928: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer ) : Boolean
5929: Function TimeStringToSTTime( const Picture, S : string ) : TStTime
5930: Function STTimeToAmPMString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5931: Function STTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5932: Function DateStringIsBlank( const Picture, S : string ) : Boolean
5933: Function InternationalDate( ForceCentury : Boolean ) : string
5934: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean ) : string
5935: Function InternationalTime( ShowSeconds : Boolean ) : string
5936: Procedure ResetInternationalInfo
5937:
5938: procedure SIRRegister_STBase(CL: TPSpascalCompiler);
5939: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer ) : Boolean
5940: Function AnsiUpperCaseShort32( const S : string ) : string
5941: Function AnsiCompareTextShort32( const S1, S2 : string ) : Integer
5942: Function AnsiCompareStrShort32( const S1, S2 : string ) : Integer
5943: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer ) : Longint
5944: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt ) : Longint
5945: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte )
5946: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal )
5947: Function Upcase( C : AnsiChar ) : AnsiChar
5948: Function LoCase( C : AnsiChar ) : AnsiChar
5949: Function CompareLetterSets( Set1, Set2 : Longint ) : Cardinal
5950: Function CompStruct( const S1, S2, Size : Cardinal ) : Integer
5951: Function Search( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5952: Function StSearch( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi ):Boolean
5953: Function SearchUC( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi ):Boolean
5954: Function IsOrInheritsFrom( Root, Candidate : TClass ) : boolean
5955: Procedure RaiseContainerError( Code : longint )
5956: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const )
5957: Function ProductOverflow( A, B : Longint ) : Boolean
5958: Function STNewStr( S : string ) : PShortString
5959: Procedure STDisposeStr( PS : PShortString )
5960: Procedure ValLongInt( S : ShortString; var LI : Longint; var ErrorCode : integer )
5961: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer )
5962: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer )
5963: Procedure RaiseStSError( ExceptionClass : EStExceptionClass; Code : LongInt )
5964: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt )
5965: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string )
5966:
5967: procedure SIRRegister_usvd(CL: TPSpascalCompiler);
5968: begin
5969: Procedure SV_DecomP( A : TMATRIX; Lb, Ubl, Ub2 : Integer; S : TVector; V : TMATRIX )
5970: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float )
5971: Procedure SV_Solve(U:TMATRIX; S:TVector;V:TMATRIX;B:TVector;Lb,Ubl,Ub2:Integer;X:TVector);
5972: Procedure SV_Approx( U : TMATRIX; S : TVector; V : TMATRIX; Lb, Ubl, Ub2 : Integer; A : TMATRIX )
5973: Procedure RKF45(F:TDiffEgs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
5974: end;
5975:
5976: //*****unit unit ; StMath Package of SysTools*****
5977: Function IntPowerS( Base : Extended; Exponent : Integer ) : Extended
5978: Function PowerS( Base, Exponent : Extended ) : Extended
5979: Function StInvCos( X : Double ) : Double
5980: Function StInvSin( Y : Double ) : Double
5981: Function StInvTan2( X, Y : Double ) : Double
5982: Function StTan( A : Double ) : Double
5983: Procedure DumpException; //unit StExpEng;
5984: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string
5985:
5986: //*****unit unit ; StCRC Package of SysTools*****
5987: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
5988: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
5989: Function Adler32OfFile( FileName : AnsiString ) : LongInt
5990: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal

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5991: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
5992: Function Crc16OfFile( FileName : AnsiString ) : Cardinal
5993: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
5994: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
5995: Function Crc32OfFile( FileName : AnsiString ) : LongInt
5996: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
5997: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
5998: Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
5999: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
6000: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
6001: Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
6002:
6003: //*****unit unit ; StBCD Package of SysTools*****
6004: Function AddBcd( const B1, B2 : Tbcds ) : Tbcds
6005: Function SubBcd( const B1, B2 : Tbcds ) : Tbcds
6006: Function MulBcd( const B1, B2 : Tbcds ) : Tbcds
6007: Function DivBcd( const B1, B2 : Tbcds ) : Tbcds
6008: Function ModBcd( const B1, B2 : Tbcds ) : Tbcds
6009: Function NegBcd( const B : Tbcds ) : Tbcds
6010: Function AbsBcd( const B : Tbcds ) : Tbcds
6011: Function FracBcd( const B : Tbcds ) : Tbcds
6012: Function IntBcd( const B : Tbcds ) : Tbcds
6013: Function RoundDigitsBcd( const B : Tbcds; Digits : Cardinal ) : Tbcds
6014: Function RoundPlacesBcd( const B : Tbcds; Places : Cardinal ) : Tbcds
6015: Function ValBcd( const S : string ) : Tbcds
6016: Function LongBcd( L : LongInt ) : Tbcds
6017: Function ExtBcd( E : Extended ) : Tbcds
6018: Function ExpBcd( const B : Tbcds ) : Tbcds
6019: Function LnBcd( const B : Tbcds ) : Tbcds
6020: Function IntPowBcd( const B : Tbcds; E : LongInt ) : Tbcds
6021: Function PowBcd( const B, E : Tbcds ) : Tbcds
6022: Function SqrtBcd( const B : Tbcds ) : Tbcds
6023: Function CmpBcd( const B1, B2 : Tbcds ) : Integer
6024: Function EqDigitsBcd( const B1, B2 : Tbcds; Digits : Cardinal ) : Boolean
6025: Function EqPlacesBcd( const B1, B2 : Tbcds; Digits : Cardinal ) : Boolean
6026: Function IsIntBcd( const B : Tbcds ) : Boolean
6027: Function TruncBcd( const B : Tbcds ) : LongInt
6028: Function BcdExt( const B : Tbcds ) : Extended
6029: Function RoundBcd( const B : Tbcds ) : LongInt
6030: Function StrBcd( const B : Tbcds; Width, Places : Cardinal ) : string
6031: Function StrExpBcd( const B : Tbcds; Width : Cardinal ) : string
6032: Function FormatBcd( const Format : string; const B : Tbcds ) : string
6033: Function StrGeneralBcd( const B : Tbcds ) : string
6034: Function FloatFormBcd( const Mask:string;B:Tbcds;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6035: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte )
6036:
6037: //*****unit unit ; StTxtDat, TStTextDataRecordSet Package of SysTools*****
6038: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings )
6039: Function StFieldTypeToStr( FieldType : TStSchemaFieldType ) : AnsiString
6040: Function StStrToFieldType( const S : AnsiString ) : TStSchemaFieldType
6041: Function StDeEscape( const EscStr : AnsiString ) : Char
6042: Function StDoEscape( Delim : Char ) : AnsiString
6043: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char ) : AnsiString
6044: Function AnsiHashText( const S : string; Size : Integer ) : Integer
6045: Function AnsiHashStr( const S : string; Size : Integer ) : Integer
6046: Function AnsiELFHashText( const S : string; Size : Integer ) : Integer
6047: Function AnsiELFHashStr( const S : string; Size : Integer ) : Integer
6048:
6049: //*****unit unit ; StNetCon Package of SysTools*****
6050: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6051:   Constructor Create( AOwner : TComponent )
6052:   Function Connect : DWord
6053:   Function Disconnect : DWord
6054:   RegisterProperty('Password', 'String', iptrw);
6055:   Property('UserName', 'String', iptrw);
6056:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6057:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6058:   Property('LocalDevice', 'String', iptrw);
6059:   Property('ServerName', 'String', iptrw);
6060:   Property('ShareName', 'String', iptrw);
6061:   Property('OnConnect', 'TNotifyEvent', iptrw);
6062:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6063:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6064:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6065:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6066:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6067: end;
6068: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6069: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6070: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection )
6071: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection )
6072: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection )
6073: Function InitializeCriticalSectionAndSpinCount(var
lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6074: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6075: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL
6076: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection )
6077: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL
6078: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL

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6079: Function SuspendThread( hThread : THandle ) : DWORD
6080: Function ResumeThread( hThread : THandle ) : DWORD
6081: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THandle
6082: Function GetCurrentThread : THandle
6083: Procedure ExitThread( dwExitCode : DWORD )
6084: Function TerminateThread( hThread : THandle; dwExitCode : DWORD ) : BOOL
6085: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL
6086: Procedure EndThread(ExitCode: Integer);
6087: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD
6088: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC
6089: Procedure FreeProcInstance( Proc : FARPROC )
6090: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD )
6091: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL
6092: Procedure ParallelJob( ASelf : TObject; ATarGet : Pointer; AParam : Pointer; ASafeSection : boolean );
6093: Procedure ParallelJob1( ATarGet : Pointer; AParam : Pointer; ASafeSection : boolean );
6094: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarGet:Ptr;AParam:Pointer;ASafeSection:bool);
6095: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarGet:Pointer;AParam:Pointer;ASafeSection:boolean );
6096: Function CreateParallelJob(ASelf:TObject;ATarGet:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob;
6097: Function CreateParallelJob1(ATarGet:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6098: Function CurrentParallelJobInfo : TParallelJobInfo
6099: Function ObtainParallelJobInfo : TParallelJobInfo
6100:
6101: *****unit uPSI_JclMime;
6102: Function MimeEncodeString( const S : AnsiString ) : AnsiString
6103: Function MimeDecodeString( const S : AnsiString ) : AnsiString
6104: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream )
6105: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream )
6106: Function MimeEncodedSize( const I : Cardinal ) : Cardinal
6107: Function MimeDecodedSize( const I : Cardinal ) : Cardinal
6108: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer )
6109: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6110: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : Cardinal
6111: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):Cardinal;
6112:
6113: *****unit uPSI_JclPrint;
6114: Procedure DirectPrint( const Printer, Data : string )
6115: Procedure SetPrinterPixelsPerInch
6116: Function GetPrinterResolution : TPoint
6117: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer
6118: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect )
6119:
6120:
6121: //*****unit uPSI_ShLwApi;*****
6122: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar
6123: Function StrChri( lpStart : PChar; wMatch : WORD ) : PChar
6124: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6125: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6126: Function StrCSpn( lpStr_, lpSet : PChar ) : Integer
6127: Function StrCSpnI( lpStr1, lpSet : PChar ) : Integer
6128: Function StrDup( lpSrch : PChar ) : PChar
6129: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar
6130: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar
6131: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6132: Function StrIsIntLEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6133: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6134: Function StrPBrk( psz, pszSet : PChar ) : PChar
6135: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6136: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6137: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar
6138: Function StrSpn( psz, pszSet : PChar ) : Integer
6139: Function StrStr( lpFirst, lpSrch : PChar ) : PChar
6140: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar
6141: Function StrToInt( lpSrch : PChar ) : Integer
6142: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL
6143: Function StrTrim( psz : PChar; pszTrimChars : PChar ) : BOOL
6144: Function ChrCmpI( w1, w2 : WORD ) : BOOL
6145: Function ChrCmpIA( w1, w2 : WORD ) : BOOL
6146: Function ChrCmpIW( w1, w2 : WORD ) : BOOL
6147: Function StrIntlEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6148: Function StrIntlEqNI( s1, s2 : PChar; nChar : Integer ) : BOOL
6149: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer ) : PChar
6150: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6151: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6152: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6153: SZ_CONTENTTYPE_HTMLA', 'String 'text/html'
6154: SZ_CONTENTTYPE_HTMLW', 'String 'text/html'
6155: SZ_CONTENTTYPE_HTML', 'String SZ_CONTENTTYPE_HTMLA';
6156: SZ_CONTENTTYPE_CDFA', 'String 'application/x-cdf'
6157: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf'
6158: SZ_CONTENTTYPE_CDF', 'String SZ_CONTENTTYPE_CDFA';
6159: Function PathIsHTMLFile( pszPath : PChar ) : BOOL
6160: STIF_DEFAULT', 'LongWord( $00000000);
6161: STIF_SUPPORT_HEX', 'LongWord( $00000001);
6162: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6163: Function StrNCopy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6164: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6165: Function PathAddBackslash( pszPath : PChar ) : PChar

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6166: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6167: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL
6168: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6169: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6170: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6171: Function PathCompactPath( hdc : HDC; pszPath : PChar; dx : UINT ) : BOOL
6172: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6173: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6174: Function PathFileExists( pszPath : PChar ) : BOOL
6175: Function PathFindExtension( pszPath : PChar ) : PChar
6176: Function PathFindFileName( pszPath : PChar ) : PChar
6177: Function PathFindNextComponent( pszPath : PChar ) : PChar
6178: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6179: Function PathGetArgs( pszPath : PChar ) : PChar
6180: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6181: Function PathIsLFNFileSpec( lpName : PChar ) : BOOL
6182: Function PathGetCharType( ch : Char ) : UINT
6183: GCT_INVALID', 'LongWord( $0000);
6184: GCT_LFNCHAR', 'LongWord( $0001);
6185: GCT_SHORTCHAR', 'LongWord( $0002);
6186: GCT_WILD', 'LongWord( $0004);
6187: GCT_SEPARATOR', 'LongWord( $0008);
6188: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6189: Function PathIsDirectory( pszPath : PChar ) : BOOL
6190: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6191: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6192: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6193: Function PathIsRelative( pszPath : PChar ) : BOOL
6194: Function PathIsRoot( pszPath : PChar ) : BOOL
6195: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6196: Function PathIsUNC( pszPath : PChar ) : BOOL
6197: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6198: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6199: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6200: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6201: Function PathIsURL( pszPath : PChar ) : BOOL
6202: Function PathMakePretty( pszPath : PChar ) : BOOL
6203: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6204: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6205: Procedure PathQuoteSpaces( lpsz : PChar )
6206: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6207: Procedure PathRemoveArgs( pszPath : PChar )
6208: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6209: Procedure PathRemoveBlanks( pszPath : PChar )
6210: Procedure PathRemoveExtension( pszPath : PChar )
6211: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6212: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6213: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6214: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6215: Function PathSkipRoot( pszPath : PChar ) : PChar
6216: Procedure PathStripPath( pszPath : PChar )
6217: Function PathStripToRoot( pszPath : PChar ) : BOOL
6218: Procedure PathUnquoteSpaces( lpsz : PChar )
6219: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6220: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6221: Function PathIsSystemFolder( pszPath : PChar; dwAttrb : DWORD ) : BOOL
6222: Procedure PathUndecorate( pszPath : PChar )
6223: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6224: URL_SCHEME_INVALID', 'LongInt'( - 1);
6225: URL_SCHEME_UNKNOWN', 'LongInt'( 0 );
6226: URL_SCHEME_FTP', 'LongInt'( 1 );
6227: URL_SCHEME_HTTP', 'LongInt'( 2 );
6228: URL_SCHEME_GOPHER', 'LongInt'( 3 );
6229: URL_SCHEME_MAILTO', 'LongInt'( 4 );
6230: URL_SCHEME_NEWS', 'LongInt'( 5 );
6231: URL_SCHEME_NNTP', 'LongInt'( 6 );
6232: URL_SCHEME_TELNET', 'LongInt'( 7 );
6233: URL_SCHEME_WAIS', 'LongInt'( 8 );
6234: URL_SCHEME_FILE', 'LongInt'( 9 );
6235: URL_SCHEME_MK', 'LongInt'( 10 );
6236: URL_SCHEME_HTTPS', 'LongInt'( 11 );
6237: URL_SCHEME_SHELL', 'LongInt'( 12 );
6238: URL_SCHEME_SNEWS', 'LongInt'( 13 );
6239: URL_SCHEME_LOCAL', 'LongInt'( 14 );
6240: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15 );
6241: URL_SCHEME_VBSCRIPT', 'LongInt'( 16 );
6242: URL_SCHEME_ABOUT', 'LongInt'( 17 );
6243: URL_SCHEME_RES', 'LongInt'( 18 );
6244: URL_SCHEME_MAXVALUE', 'LongInt'( 19 );
6245: URL_SCHEME', 'Integer
6246: URL_PART_NONE', 'LongInt'( 0 );
6247: URL_PART_SCHEME', 'LongInt'( 1 );
6248: URL_PART_HOSTNAME', 'LongInt'( 2 );
6249: URL_PART_USERNAME', 'LongInt'( 3 );
6250: URL_PART_PASSWORD', 'LongInt'( 4 );
6251: URL_PART_PORT', 'LongInt'( 5 );
6252: URL_PART_QUERY', 'LongInt'( 6 );
6253: URL_PART', 'DWORD
6254: URLIS_URL', 'LongInt'( 0 );

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6255: URLIS_OPAQUE', 'LongInt'( 1);
6256: URLIS_NOHISTORY', 'LongInt'( 2);
6257: URLIS_FILEURL', 'LongInt'( 3);
6258: URLIS_APPLICABLE', 'LongInt'( 4);
6259: URLIS_DIRECTORY', 'LongInt'( 5);
6260: URLIS_HASQUERY', 'LongInt'( 6);
6261: TUrlIs', 'DWORD
6262: URL_UNESCAPE', 'LongWord( $10000000);
6263: URL_ESCAPE_UNSAFE', 'LongWord( $20000000);
6264: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000);
6265: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6266: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000);
6267: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000);
6268: URL_DONT_SIMPLIFY', 'LongWord( $08000000);
6269: URL_NO_META', 'longword( URL_DONT_SIMPLIFY);
6270: URL_UNESCAPE_INPLACE', 'LongWord( $00100000);
6271: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000);
6272: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000);
6273: URL_INTERNAL_PATH', 'LongWord( $00800000);
6274: URL_FILE_USE_PATHURL', 'LongWord( $00010000);
6275: URL_ESCAPE_PERCENT', 'LongWord( $00001000);
6276: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000);
6277: URL_PARTFLAG_KEEPSCHEME', 'LongWord( $00000001);
6278: URL_APPLY_DEFAULT', 'LongWord( $00000001);
6279: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002);
6280: URL_APPLY_GUESSFILE', 'LongWord( $00000004);
6281: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008);
6282: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL) : Integer
6283: Function UrlCombine(pszBase,pszRelative:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6284: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6285: Function UrlIsOpaque( pszURL : PChar) : BOOL
6286: Function UrlIsNoHistory( pszURL : PChar) : BOOL
6287: Function UrlIsFileUrl( pszURL : PChar) : BOOL
6288: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs) : BOOL
6289: Function UrlGetLocation( pszl : PChar) : PChar
6290: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD) : HRESULT
6291: Function UrlEscape(pszUrl: PChar; pszEscaped: PChar; pcchEscaped:DWORD; dwFlags : DWORD) : HRESULT
6292: Function UrlCreateFromPath(pszPath:PChar; pszUrl: PChar;pcchUrl: DWORD; dwFlags : DWORD) : HRESULT
6293: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD) : HRESULT
6294: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD) : HRESULT
6295: Function UrlGetPart(psziin : PChar; pszOut: PChar; pcchOut: DWORD; dwPart,dwFlags: DWORD) : HRESULT
6296: Function UrlApplyScheme( pszin : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD) : HRESULT
6297: Function HashData( pbData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD) : HRESULT
6298: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD) : HRESULT
6299: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD) : HRESULT
6300: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6301: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6302: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar) : DWORD
6303: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD) : Longint
6304: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : __Pointer; pcbData : DWORD) : Longint
6305: Function SHQueryInfoKey(hKey:HKEY;pcchSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6306: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD) : DWORD
6307: Function SHRegGetPath(hKey:HKEY; pkszSubKey,pcszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6308: Function SHRegSetPath( hKey:HKEY; pkszSubKey, pcSzValue, pcSzPath : PChar; dwFlags : DWORD): DWORD
6309: SHREGDEL_DEFAULT', 'LongWord( $00000000);
6310: SHREGDEL_HKCU', 'LongWord( $00000001);
6311: SHREGDEL_HKLM', 'LongWord( $00000010);
6312: SHREGDEL_BOTH', 'LongWord( $00000011);
6313: SHREGENUM_DEFAULT', 'LongWord( $00000000);
6314: SHREGENUM_HKCU', 'LongWord( $00000001);
6315: SHREGENUM_HKLM', 'LongWord( $00000010);
6316: SHREGENUM_BOTH', 'LongWord( $00000011);
6317: SHREGSET_HKCU', 'LongWord( $00000001);
6318: SHREGSET_FORCE_HKCU', 'LongWord( $00000002);
6319: SHREGSET_HKLM', 'LongWord( $00000004);
6320: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6321: TSHRegDelFlags', 'DWORD
6322: TSHRegEnumFlags', 'DWORD
6323: HUSKEY', 'THandle
6324: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6325: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6326: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6327: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6328: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6329: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6330: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6331: ASSOCF_VERIFY', 'LongWord( $00000040);
6332: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6333: ASSOCF_NOFIXUPS', 'LongWord( $00000100);
6334: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6335: ASSOCF', 'DWORD
6336: ASSOCSTR_COMMAND', 'LongInt'( 1);
6337: ASSOCSTR_EXECUTABLE', 'LongInt'( 2);
6338: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3);
6339: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4);
6340: ASSOCSTR_NOOPEN', 'LongInt'( 5);
6341: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6);
6342: ASSOCSTR_DDECOMMAND', 'LongInt'( 7);

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6343: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8 );
6344: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9 );
6345: ASSOCSTR_DDETOPIC', 'LongInt'( 10 );
6346: ASSOCSTR_INFOTIP', 'LongInt'( 11 );
6347: ASSOCSTR_MAX', 'LongInt'( 12 );
6348: ASSOCSTR', 'DWORD
6349: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1 );
6350: ASSOCKEY_APP', 'LongInt'( 2 );
6351: ASSOCKEY_CLASS', 'LongInt'( 3 );
6352: ASSOCKEY_BASECLASS', 'LongInt'( 4 );
6353: ASSOCKEY_MAX', 'LongInt'( 5 );
6354: ASSOCKEY', 'DWORD
6355: ASSOCDATA_MSIDESCRIPTOR', 'LongInt'( 1 );
6356: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2 );
6357: ASSOCDATA_QUERYCLASSTOORE', 'LongInt'( 3 );
6358: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4 );
6359: ASSOCDATA_MAX', 'LongInt'( 5 );
6360: ASSOCDATA', 'DWORD
6361: ASSOCENUM_NONE', 'LongInt'( 0 );
6362: ASSOCENUM', 'DWORD
6363: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6364: SHACF_DEFAULT $00000000;
6365: SHACF_FILESYSTEM', 'LongWord( $00000001 );
6366: SHACF_URLHISTORY', 'LongWord( $00000002 );
6367: SHACF_URLMRU', 'LongWord( $00000004 );
6368: SHACF_USETAB', 'LongWord( $00000008 );
6369: SHACF_FILESYS_ONLY', 'LongWord( $00000010 );
6370: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000 );
6371: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000 );
6372: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000 );
6373: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6374: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6375: Procedure SHSetThreadRef( punk : IUnknown )
6376: Procedure SHGetThreadRef( out ppunk : IUnknown )
6377: CTF_INSIST', 'LongWord( $00000001 );
6378: CTF_THREAD_REF', 'LongWord( $00000002 );
6379: CTF_PROCESS_REF', 'LongWord( $00000004 );
6380: CTF_COINIT', 'LongWord( $00000008 );
6381: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6382: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6383: Function ColorHLSToRGB( whue, wLuminance, wSaturation : WORD ) : TColorRef
6384: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6385: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6386: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6387: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6388: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6389: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6390: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6391: Function SetRectEmpty( var lprc : TRect ) : BOOL
6392: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6393: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6394: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6395: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6396:
6397: Function InitializeFlatSB( hWnd : HWND ) : Bool
6398: Procedure UninitializeFlatSB( hWnd : HWND )
6399: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6400: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6401: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6402: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6403: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6404: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6405: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6406:
6407:
6408: // **** 204 unit uPSI_ShellAPI;
6409: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6410: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6411: Procedure DragFinish( Drop : HDROP )
6412: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6413: Function ShellExecute( hWnd:HWND;Operation,FileName,Parameters,Directory:PChar;ShowCmd:Integer ):HINST
6414: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6415: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6416: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6417: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6418: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT ) : HICON
6419: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6420: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6421: Function ExtractIconEx( lpszFile:PChar;nIconIndex:Int;var phiconLarge,phiconSmall:HICON;nIcons:UINT):UINT;
6422: Procedure SHFreeNameMappings( hNameMappings : THandle )
6423:
6424: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001 );
6425: DLLVER_PLATFORM_NT', 'LongWord( $00000002 );
6426: DLLVER_MAJOR_MASK', 'LongWord( Int64( $FFFF000000000000 ) );
6427: DLLVER_MINOR_MASK', 'LongWord( Int64( $0000FFFF00000000 ) );
6428: DLLVER_BUILD_MASK', 'LongWord( Int64( $00000000FFFF0000 ) );
6429: DLLVER_QFE_MASK', 'LongWord( Int64( $000000000000FFFF ) );
6430: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6431: Function SimpleXMLEncode( const S : string ) : string

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6432: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean)
6433: Function XMLEncode( const S : string) : string
6434: Function XMLDecode( const S : string) : string
6435: Function EntityEncode( const S : string) : string
6436: Function EntityDecode( const S : string) : string
6437:
6438: procedure RIRegister_CPort_Routines(S: TPSEexec);
6439: Procedure EnumComPorts( Ports : TStrings)
6440: Procedure ListComPorts( Ports : TStrings)
6441: Procedure ComPorts( Ports : TStrings) //Alias to Arduino
6442: Function GetComPorts: TStringlist;
6443: Function StrToBaudRate( Str : string) : TBaudRate
6444: Function StrToStopBits( Str : string) : TStopBits
6445: Function StrToDataBits( Str : string) : TDataBits
6446: Function StrToParity( Str : string) : TParityBits
6447: Function StrToFlowControl( Str : string) : TFlowControl
6448: Function BaudRateToStr( BaudRate : TBaudRate) : string
6449: Function StopBitsToStr( StopBits : TStopBits) : string
6450: Function DataBitsToStr( DataBits : TDataBits) : string
6451: Function ParityToStr( Parity : TParityBits) : string
6452: Function FlowControlToStr( FlowControl : TFlowControl) : string
6453: Function ComErrorsToStr( Errors : TComErrors) : String
6454:
6455: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT) : BOOL
6456: Function DispatchMessage( const lpMsg : TMsg) : Longint
6457: Function TranslateMessage( const lpMsg : TMsg) : BOOL
6458: Function SetMessageQueue( cMessagesMax : Integer) : BOOL
6459: Function PeekMessage(var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT):BOOL
6460: Function GetMessagePos : DWORD
6461: Function GetMessageTime : Longint
6462: Function GetMessageExtraInfo : Longint
6463: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean) : string
6464: Procedure JAddToRecentDocs( const filename : string)
6465: Procedure ClearRecentDocs
6466: Function ExtractIconFromFile( FileName : string; Index : Integer) : HICON
6467: Function CreateShellLink( const AppName, Desc : string; Dest : string) : string
6468: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo)
6469: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo)
6470: Function RecycleFile( FileToRecycle : string) : Boolean
6471: Function JCopyFile( FromFile, ToDir : string) : Boolean
6472: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType) : UINT
6473: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT) : TShellObjectType
6474: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6475: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6476: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL
6477: Function EnumServicesStatusExA(hSCManager: SC_HANDLE; InfoLevel: SC_ENUM_TYPE; dwServiceType: DWORD; dwServiceState: DWORD;lpServices:LPBYTE;cbBufSize:DWORD;var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD;pszGroupName: LP
6478: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices:LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6479: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD;lpServices : LPBYTE;cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6480: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR) : BOOL
6481:
6482: ***** unit uPSI_JclPeImage;
6483:
6484: Function IsValidPeFile( const FileName : TFileName) : Boolean
6485: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders) : Boolean
6486: Function PeCreateNameHintTable( const FileName : TFileName) : Boolean
6487: Function PeRebaseImage(const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6488: Function PeVerifyCheckSum( const FileName : TFileName) : Boolean
6489: Function PeClearCheckSum( const FileName : TFileName) : Boolean
6490: Function PeUpdateCheckSum( const FileName : TFileName) : Boolean
6491: Function PeDoesExportFunction(const FileName:TFileName;const FuncName:string;Options:TJclSmartCompOptions):Bool;
6492: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions) : Boolean
6493: Function PeIsExportFunctionForwarded(const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6494: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions) : Boolean
6495: Function PeDoesImportLibrary(const FileName:TFileName;const LibraryName:string;Recursive:Boolean);Boolean;
6496: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean) : Boolean
6497: Function PeImportedFunctions(const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string;IncludeLibNames : Boolean); Boolean
6498: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6499: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6500: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings) : Boolean
6501: Function PeResourceKindNames(const FileName:TFileName;ResourceType:TJclPeResourceKind;const NamesList:TStrings):Bool
6502: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings) : Boolean

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6503: Function PeBorDependedPackages( const FileName:TFileName; PackagesList:TStrings; FullPathName,
6504:   Descript:Bool ):Bool;
6505: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6506: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6507: Function PeCreateRequiredImportList( const FileName: TFileName; RequiredImportsList: TStrings ): Boolean;
6508: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6509: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6510: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6511: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) :
6512:   PImageSectionHeader
6513: Function PeMapFindResource( const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):
6514:   __Pointer;
6515:   SIRegister_TJclPeSectionStream(CL);
6516:   SIRegister_TJclPeMapImgHookItem(CL);
6517:   SIRegister_TJclPeMapImgHooks(CL);
6518: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var
6519:   NtHeaders:TImageNtHeaders):Boolean
6520: Type TJclBorUmSymbolKind', '(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6521: TJclBorUmSymbolModifier', '( smQualified, smLinkProc )
6522: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6523: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6524: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6525: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6526: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description :
6527:   TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6528: Function PeBorUnmangleName1(const Name:string;var Unmangled:string;var
6529:   Descript:TJclBorUmDescription):TJclBorUmResult;
6530: Function PeBorUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6531: Function PeBorUnmangleName3( const Name : string ) : string;
6532: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6533: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6534: //***** SysTools uPSI_StSystem; ****
6535: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6536: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6537: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6538: //Procedure EnumerateDirectories(const
6539:   StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6540: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
6541:   IncludeItem:TIncludeItemFunc);
6542: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6543: Function FileMatchesMask( const FileName, FileMask : AnsiString ) : Boolean
6544: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6545: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6546: Function FlushOsBuffers( Handle : Integer ) : Boolean
6547: Function GetCurrentUser : AnsiString
6548: Function GetDiskClass( Drive : Char ) : DiskClass
6549: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
6550:   SectorsPerCluster:Cardinal):Bool;
6551: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var
6552:   DiskSize:Double):Bool;
6553: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
6554:   DiskSize:Comp):Boolean;
6555: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6556: Function getDiskSpace2(const path: String; index: integer): int64;
6557: Function GetFileCreateDate( const FileName : AnsiString ) : TDateTime
6558: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime
6559: Function GetFileLastModify( const FileName : AnsiString ) : TDateTime
6560: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6561: Function GetLongPath( const APath : AnsiString ) : AnsiString
6562: Function GetMachineName : AnsiString
6563: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6564: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString
6565: Function GetShortPath( const APath : AnsiString ) : AnsiString
6566: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString
6567: Function GetTempFolder( aForceSlash : boolean ) : AnsiString
6568: Function StGetWindowsFolder( aForceSlash : boolean ) : AnsiString
6569: Function GetWorkingFolder( aForceSlash : boolean ) : AnsiString
6570: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6571: Function StIsDirectory( const DirName : AnsiString ) : Boolean
6572: Function IsDirectoryEmpty( const S : AnsiString ) : Integer
6573: Function IsDriveReady( Drive : Char ) : Boolean
6574: Function IsFile( const FileName : AnsiString ) : Boolean
6575: Function IsFileArchive( const S : AnsiString ) : Integer
6576: Function IsFileHidden( const S : AnsiString ) : Integer
6577: Function IsFileReadOnly( const S : AnsiString ) : Integer
6578: Function IsFileSystem( const S : AnsiString ) : Integer
6579: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6580: Function ReadVolumeLabel( var VolName : Ansistring; Drive : Char ) : Cardinal
6581: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean
6582: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6583: Procedure SplitPath( const APath : AnsiString; Parts : TStrings )
6584: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6585: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint
6586: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec

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6581: Function ValidDrive( Drive : Char ) : Boolean
6582: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6583:
6584: //*****unit uPSI_JclLANMan;*****
6585: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6586: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6587: Function DeleteAccount( const Servername, Username : string ) : Boolean
6588: Function DeleteLocalAccount( Username : string ) : Boolean
6589: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6590: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6591: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6592: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6593: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6594: Function LocalGroupExists( const Group : string ) : Boolean
6595: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6596: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6597: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6598: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6599: Function IsLocalAccount( const AccountName : string ) : Boolean
6600: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6601: Function GetRandomString( NumChar : cardinal ) : string
6602:
6603: //*****unit uPSI_cUtils;*****
6604: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )'
6605: Function cIsWinNT : boolean
6606: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,
  Multitasking:Boolean;
6607: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6608: Function cRunAndGetOutput(Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
  CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean) : string
6609: Function cGetShortName( FileName : string ) : string
6610: Procedure cShowError( Msg : String )
6611: Function cCommaStrToStr( s : string; formatstr : string ) : string
6612: Function cIncludeQuoteIfSpaces( s : string ) : string
6613: Function cIncludeQuoteIfNeeded( s : string ) : string
6614: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6615: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6616: Function cBuildFilter( var value : string; const FLTStyle : TFILTERSET ) : boolean;
6617: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6618: Function cCodeInstoStr( s : string ) : string
6619: Function cStrtoCodeIns( s : string ) : string
6620: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6621: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6622: Procedure cStrToPoint( var pt : TPoint; value : string )
6623: Function cPointToStr( const pt : TPoint ) : string
6624: Function cListToStr( const List : TStrings ) : string
6625: Function ListToStr( const List : TStrings ) : string
6626: Procedure StrToList( s : string; const List : TStrings; const delimiter : char )
6627: Procedure cStrToList( s : string; const List : TStrings; const delimiter : char )
6628: Function cGetFileType( const FileName : string ) : TUnitType
6629: Function cGetExTyp( const FileName : string ) : TExUnitType
6630: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6631: Function cExpandFileto( const FileName : string; const basePath : string ) : string
6632: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6633: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6634: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6635: Function cGenMakePath( FileName : String ) : String;
6636: Function cGenMakePath2( FileName : String ) : String
6637: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6638: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6639: Function cCalcMod( Count : Integer ) : Integer
6640: Function cGetVersionString( FileName : string ) : string
6641: Function cCheckChangeDir( var Dir : string ) : boolean
6642: Function cGetAssociatedProgram(const Extension:string; var Filename,Description: string):boolean
6643: Function cIsNumeric( s : string ) : boolean
6644: Procedure StrToAttr( var Attr : TSynHighlighterAttributes; Value : string )
6645: Function AttrToStr( const Attr : TSynHighlighterAttributes ) : string
6646: Function GetfileTyp( const FileName : string ) : TUnitType
6647: Function Atoi(const aStr: string): integer
6648: Function Itoa(const aint: integer): string
6649:
6650:
6651: procedure SIRegister_cHTTPUtils(CL: TPPascalCompiler);
6652: begin
6653:   FindClass('TOBJECT'), 'EHTTP
6654:   FindClass('TOBJECT'), 'EHTTPParser
6655:   //AnsiCharSet', 'set of AnsiChar
6656:   AnsiStringArray', 'array of AnsiString
6657:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6658:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6659:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'
6660:   +'TPPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6661:   +'CustomMinVersion : Integer; end
6662:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6663:   +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6664:   +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6665:   +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'

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6666: +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6667: +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6668: +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6669: +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6670: +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6671: +'nection, hntOrigin, hntKeepAlive )
6672: THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6673: THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6674: +' AnsiString; end
6675: //THTTPCustomHeader', '^THTTPCustomHeader // will not work
6676: THTTPContentLengthEnum', '( hcLNone, hcLByteCount )
6677: THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6678: //THTTPContentLength', '^THTTPContentLength // will not work
6679: THTTPContentTypeMajor', '( hctmCustom, hctmText, hctmImage )
6680: THTTPContentTypeEnum', '( hctNone, hctCustomParts, hctCustomStri'
6681: +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6682: +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6683: +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScipt, hctAppli'
6684: +'ctionCustom, hctAudioCustom, hctVideoCustom )
6685: THTTPContentType', 'record Value : THTTPContentTypeEnum; CustomM'
6686: +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6687: +'CustomStr : AnsiString; end
6688: THTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )'
6689: THTTPDateField', 'record Value : THTTPDateFieldEnum; DayOfWeek :'
6690: +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6691: +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6692: +'String; DateTime : TDateTime; Custom : AnsiString; end
6693: THTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )'
6694: THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnum'
6695: +'m; Custom : AnsiString; end
6696: THTTPConnectionFieldEnum', '( hcfnNone, hcfcCustom, hcfcClose, hcfcKeepAlive )'
6697: THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6698: +' Custom : AnsiString; end
6699: THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )'
6700: THTTPAgeField', 'record Value : THTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6701: THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )'
6702: THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6703: +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )'
6704: THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6705: +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6706: +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )'
6707: THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end
6708: THTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6709: +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )'
6710: THTTPContentEncoding', 'record Value:THTTPContentEncodingEnum;Custom:AnsiString; end;
6711: THTTPContentEncodingException', '( hcfeNone, hcfeList )'
6712: THTTPContentEncodingException', 'record Value : THTTPContentEncoding'
6713: +'FieldEnum; List : array of THTTPContentEncoding; end
6714: THTTPRetryAfterFieldEnum', '( hrarNone, hrarCustom, harfDate, harfSeconds )'
6715: THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum; '
6716: +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6717: THTTPContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )'
6718: THTTPContentRangeField', 'record Value : THTTPContentRangeFieldE'
6719: +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6720: THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )'
6721: THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6722: THTTPSetCookieCustomFieldArray', 'array of THTTPSetCookieCustomField
6723: THTTPSetCookieField', 'record Value : THTTPSetCookieFieldEnum; D'
6724: +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : '
6725: +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSetCookie'
6726: +'CustomFieldArray; Custom : AnsiString; end
6727: //THTTPSetCookieField', '^THTTPSetCookieField // will not work
6728: THTTPSetCookieFieldArray', 'array of THTTPSetCookieField
6729: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )'
6730: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6731: //THTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6732: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6733: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries'
6734: +' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6735: THTTPCommonHeaders', 'record TransferEncoding : THTTPTransferEnc'
6736: +'oding; ContentType : THTTPContentType; ContentLength : THTTPContentLength; '
6737: +' Connection : THTTPConnectionField; ProxyConnection : THTTPConnectionField'
6738: +' ; Date : THTTPDateField; ContentEncoding : THTTPContentEncodingField; end
6739: THTTPCustomHeaders', 'array of THTTPCustomHeader
6740: //THTTPFixedHeaders', 'array[THTTPHeaderNameEnum] of AnsiString
6741: THTTPFixedHeaders', 'array[0..42] of AnsiString
6742: THTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6743: +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )'
6744: THTTPMethod', 'record Value : THTTPMethodEnum; Custom : AnsiString; end
6745: THTTPRequestStartLine', 'record Method: THTTPMethod;URI: AnsiString;Version:THTTPVersion; end
6746: THTTPRequestHeader', 'record CommonHeaders : THTTPCommonHeaders; '
6747: +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo'
6748: +'kie : THTTPCookieField; IfModifiedSince:THTTPDateField;IfUnmodifiedSince:THTTPDateField;end
6749: //THTTPRequestHeader', '^THTTPRequestHeader // will not work
6750: THTTPRequest', 'record StartLine : THTTPRequestStartLine; Header'
6751: +' : THTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6752: THTTPResponseStartLineMessage', '( hslmNone, hslmCustom, hslmOK)'
6753: THTTPResponseStartLine', 'record Version : THTTPVersion; Code : '
6754: +'Integer; Msg : THTTPResponseStartLineMessage; CustomMsg : AnsiString; end

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6755: THTTPResponseHeader', 'record CommonHeaders : THTTPCommonHeaders'
6756:   +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6757:   +'okies : THTTPSetCookieFieldArray; Expires : THTTPDateField; LastModified :'
6758:   +' THTTPDateField; Age : THTTPAgeField; end
6759: //THTTPResponseHeader', '^THTTPResponseHeader // will not work
6760: THTTPResponse', 'record StartLine : THTTPResponseStartLine; Head'
6761:   +'er : THTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6762: Function HTTPMessageHasContent( const H : THTTPCommonHeaders ) : Boolean
6763: Procedure InitHTTPRequest( var A : THTTPRequest )
6764: Procedure InitHTTPResponse( var A : THTTPResponse )
6765: Procedure ClearHTTPVersion( var A : THTTPVersion )
6766: Procedure ClearHTTPContentLength( var A : THTTPContentLength )
6767: Procedure ClearHTTPContentType( var A : THTTPContentType )
6768: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding )
6769: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField )
6770: Procedure ClearHTTPConnectionField( var A : THTTPConnectionField )
6771: Procedure ClearHTTPAgeField( var A : THTTPAgeField )
6772: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField )
6773: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField )
6774: Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField )
6775: Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders )
6776: //Procedure ClearHTTPFixedHeaders( var A : THTTPFixedHeaders )
6777: Procedure ClearHTTPCustomHeaders( var A : THTTPCustomHeaders )
6778: Procedure ClearHTTPCookieField( var A : THTTPCookieField )
6779: Procedure ClearHTTPMethod( var A : THTTPMethod )
6780: Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine )
6781: Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader )
6782: Procedure ClearHTTPRequest( var A : THTTPRequest )
6783: Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine )
6784: Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader )
6785: Procedure ClearHTTPResponse( var A : THTTPResponse )
6786: THTTPStringOption', '( hsoNone )
6787: THTTPStringOptions', 'set of THTTPStringOption
6788: FindClass('TOBJECT'), 'TansiStringBuilder
6790:
6791: Procedure BuildStrHTTPVersion(const A:THTTPVersion;const B:TansiStringBuilder; P:THTTPStringOptions;
6792: Procedure BuildStrHTTPContentLengthValue(const
6793: A:THTTPContentLength;B:TansiStringBuilder;P:THTTPStringOptions)
6794: Procedure BuildStrHTTPContentLength(const A : THTTPContentLength;
6795: B:TansiStringBuilder;P:THTTPStringOptions)
6796: Procedure BuildStrHTTPContentTypeValue(const A:THTTPContentType;B:TansiStringBuilder;const
6797: P:THTTPStringOptions)
6798: Procedure BuildStrHTTPContentType(const A:THTTPContType;const B:TansiStringBuilder; const
6799: P:THTTPStringOptions)
6800: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
6801: B : TansiStringBuilder; const P : THTTPStringOptions)
6802: Procedure BuildStrHTTPDateFieldValue( const A : THTTPDateField; const B : TansiStringBuilder; const P :
6803: THTTPStringOptions)
6804: Procedure BuildStrHTTPDateField(const A:THTTPDateField;const B:TansiStringBuilder;const
6805: P:THTTPStringOptions);
6806: Procedure BuildStrHTTPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
6807: TansiStringBuilder; const P : THTTPStringOptions)
6808: Procedure BuildStrHTTPTransferEncoding( const A : THTTPTransferEncoding; const B : TansiStringBuilder;
6809: const P : THTTPStringOptions)
6810: Procedure BuildStrHTTPContentEncoding( const A : THTTPContentEncoding; const B : TansiStringBuilder;
6811: const P : THTTPStringOptions)
6812: Procedure BuildStrHTTPContentEncodingField(const A:THTTPContentEncodingField;const
6813: B:TansiStringBuilder;const P:THTTPStringOptions)
6814: Procedure BuildStrHTTPProxyConnectionField(const A : THTTPConnectionField; const B : TansiStringBuilder;
6815: const P : THTTPStringOptions)
6816: Procedure BuildStrHTTPCommonHeaders( const A : THTTPCommonHeaders; const B : TansiStringBuilder; const P
6817: : THTTPStringOptions)
6818: Procedure BuildStrHTTPFixedHeaders( const A:THTTPFixedHeaders;const B:TansiStrBuilder;const
6819: P:THTTPStringOptions)
6820: Procedure BuildStrHTTPCustomHeaders( const A : THTTPCustomHeaders; const B : TansiStringBuilder; const P
6821: : THTTPStringOptions)
6822: Procedure BuildStrHTTPSetCookieFieldValue( const A : THTTPSetCookieField; const B : TansiStringBuilder;
6823: const P : THTTPStringOptions)
6824: Procedure BuildStrHTTPCookieFieldValue( const A : THTTPCookieField; const B : TansiStringBuilder; const P
6825: : THTTPStringOptions)
6826: Procedure BuildStrHTTPMethod( const A : THTTPMethod; const B : TansiStringBuilder; const P :
6827: THTTPStringOptions)
6828: Procedure BuildStrHTTPRequestStartLine( const A : THTTPRequestStartLine; const B : TansiStringBuilder;
6829: const P : THTTPStringOptions)
6830: Procedure BuildStrHTTPRequestHeader( const A:THTTPRequestHeader;const B:TansiStringBuilder;const
6831: P:THTTPStringOptions);
6832: Procedure BuildStrHTTPRequest( const A : THTTPRequest; const B : TansiStringBuilder; const P :
6833: THTTPStringOptions)

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6818: Procedure BuildStrHTTPResponseCookieFieldArray( const A : THTTPSetCookieFieldArray; const B : 
  TAnsiStringBuilder; const P : THTTPStringOptions)
6819: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P 
  THTTPStrOptions);
6820: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const 
  P:THTTPStringOptions);
6821: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const 
  P:THTTPStringOptions);
6822: Function HTTPContentTypeValueToStr( const A : THTTPContentType ) : AnsiString
6823: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField ) : AnsiString
6824: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField ) : AnsiString
6825: Function HTTPMethodToStr( const A : THTTPMethod ) : AnsiString
6826: Function HTTPRequestToStr( const A : THTTPRequest ) : AnsiString
6827: Function HTTPResponseToStr( const A : THTTPResponse ) : AnsiString
6828: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const 
  Domain:AnsiString;const Secure:Boolean; THTTPPParserHeaderParseFunc', 'Function ( const HeaderName : THTT' 
  +PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6829: SIRegister_THTTPParser(CL);
6830: FindClass('TOBJECT','THTTPContentDecoder'
6831: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder )
6832: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6833: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6834: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6835: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String )
6836: SIRegister_THTTPContentDecoder(CL);
6837: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6838: FindClass('TOBJECT','THTTPContentReader'
6839: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader )
6840: THTTPContentReaderLogEvent', 'Procedure ( const Sender : THTTPContentReader; const LogMsg:String; const 
  LogLevel:Int ;
6841: SIRegister_THTTPContentReader(CL);
6842: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6843: FindClass('TOBJECT','THTTPContentWriter'
6844: THTTPContentWriterLogEvent', 'Procedure ( const Sender : THTTPContentWriter; const LogMsg:AnsiString );
6845: SIRegister_THTTPContentWriter(CL);
6846: Procedure SelfTestcHTTPUtil
6847: end;
6848: end;
6849:
6850: (*-----*)
6851: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6852: begin
6853: 'TLSLibraryVersion', 'String '1.00
6854: 'TLSerror_None', 'LongInt'( 0 );
6855: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6856: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6857: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6858: 'TLSerror_InvalidState', 'LongInt'( 4 );
6859: 'TLSerror_DecodeError', 'LongInt'( 5 );
6860: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6861: Function TLSErrorMessage( const TLSerror : Integer ) : String
6862: SIRegister_ETLSerror(CL);
6863: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6864: TTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6865: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion )
6866: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion )
6867: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion )
6868: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion )
6869: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6870: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6871: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6872: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6873: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6874: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6875: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6876: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6877: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6878: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6879: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6880: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion ) : String
6881: Function TLSProtocolVersionName( const A : TTLSProtocolVersion ) : String
6882: PTLSRandom', '^TTLSRandom // will not work
6883: Procedure InitTLSRandom( var Random : TTLSRandom )
6884: Function TLSRandomToStr( const Random : TTLSRandom ) : AnsiString
6885: 'TLSSessionIDMaxLen', 'LongInt'( 32 );
6886: Procedure InitTLSSessionID( var SessionID : TLSSessionID; const A : AnsiString )
6887: Function EncodedTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TLSSessionID):Int;
6888: Function DecodedTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TLSSessionID):Int;
6889: TTLSignatureAndHashAlgorithm', 'record Hash : TTLSShHashAlgorithm'
6890: +' ; Signature : TTLSignatureAlgorithm; end
6891: // TTLSignatureAndHashAlgorithm', '^TTLSignatureAndHashAlgorithm +'// will not work
6892: TTLSignatureAndHashAlgorithmArray', 'array of TTLSignatureAndHashAlgorithm
6893: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_'
6894: +' DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6895: TTLSMACAlgorithm', '( tlsmaNone, tlsmaNULL, tlsmaHMAC_MD5, tlsma'
6896: +' HMAC_SHA1, tlsmaHMAC_SHA256, tlsmaHMAC_SHA384, tlsmaHMAC_SHA512 )
6897: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6898: +' nteger; Supported : Boolean; end
6899: PTLSMacAlgorithmInfo', '^TTLSMacAlgorithmInfo // will not work
6900: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );

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6901:   TTLSPRFAlgorithm', '( tlspaSHA256 )
6902:   Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6903:   Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6904:   Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6905:   Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer) : AnsiString
6906:   Function tlsp10PRF( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6907:   Function tlsp12PRF_SHA256( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6908:   Function tlsp12PRF_SHA512( const Secret, ALabel, Seed : AnsiString; const Size : Integer) : AnsiString
6909:   Function TLSPRF( const ProtoVersion:TTLSProtocolVersion,const Secret,ALabel,Seed:AString;const
6910:   Size:Int):AString;
6911:   Function tlsl0KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
6912:   Size:Integer):AnsiString
6913:   Function tlsl2SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
6914:   Size:Int):AnsiString;
6915:   Function tlsl2SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
6916:   Size:Int):AnsiString;
6917:   Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
6918:   ClientRandom : AnsiString; const Size : Integer) : AnsiString
6919:   Function tlsl0MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6920:   Function tlsl2SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6921:   Function tlsl2SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6922:   Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
6923:   ServerRandom:AnsiString) : AnsiString
6924:   record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6925:   +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6926:   +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6927:   Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
6928:   IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TLSKeys)
6929:   Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
6930:   ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TLSKeys)
6931:   'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1);
6932:   'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024);
6933:   Procedure SelfTestcTLSUtils
6934:   end;
6935:   (*-----*)
6936:   procedure SIRegister_Reversi(CL: TPSPPascalCompiler);
6937:   begin
6938:     sPosData','record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
6939:     integer; disks : integer; mx : integer; my : integer; end
6940:   // pBoard', '^tBoard // will not work
6941:   Function rCalculateData( cc : byte; cx, cy : integer) : sPosData
6942:   Function rCheckMove( color : byte; cx, cy : integer) : integer
6943:   //Function rDoStep( data : pBoard) : word
6944:   Function winExecAndWait( const sAppPath : string; wVisible : word) : boolean
6945:   end;
6946:
6947:   procedure SIRegister_IWDBCommon(CL: TPSPPascalCompiler);
6948:   begin
6949:     TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6950:     TMyPrintRange', '( prAll, prSelected )
6951:     TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6952:     +'ded, ssDateTime, ssTime, ssCustom )
6953:     TSortDirection', '( sdAscending, sdDescending )
6954:     TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
6955:     TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integ'
6956:     +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6957:     TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6958:     TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
6959:     SIRegister_TSortOptions(CL);
6960:     SIRegister_TPrintOptions(CL);
6961:     TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
6962:     SIRegister_TSortedList(CL);
6963:     TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
6964:     TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
6965:     TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
6966:     TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
6967:     +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
6968:     SIRegister_TFontSetting(CL);
6969:     SIRegister_TFontlist(CL);
6970:     AddTypeS(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row : '
6971:     + integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
6972:     TSetFilterEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
6973:     TSearchEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
6974:     TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
6975:     TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
6976:     TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
6977:     TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
6978:     TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer'
6979:     +'r; var SortStyle : TSortStyle)
6980:     TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow : '

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6981: +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
6982: SIRegister_TSortGrid(CL);
6983: Function ExtendedCompare( const Str1, Str2 : String) : Integer
6984: Function NormalCompare( const Str1, Str2 : String) : Integer
6985: Function DateTimeCompare( const Str1, Str2 : String) : Integer
6986: Function NumericCompare( const Str1, Str2 : String) : Integer
6987: Function TimeCompare( const Str1, Str2 : String) : Integer
6988: //Function Compare( Item1, Item2 : Pointer) : Integer
6989: end;
6990:
6991: ***** procedure Register_IB(CL: TPSPascalCompiler);
6992: Procedure IBAalloc( var P, OldSize, NewSize : Integer)
6993: Procedure IBError( ErrMess : TIBClientError; const Args : array of const)
6994: Procedure IB DataBaseError
6995: Function StatusVector : PISC_STATUS
6996: Function StatusVectorArray : PStatusVector
6997: Function CheckStatusVector( ErrorCodes : array of ISC_STATUS) : Boolean
6998: Function StatusVectorAsText : string
6999: Procedure SetIB DataBaseErrorMessages( Value : TIB DataBaseErrorMessages)
7000: Function GetIB DataBaseErrorMessages : TIB DataBaseErrorMessages
7001:
7002:
7003: //*****unit uPSI_BoldUtils;*****
7004: Function CharCount( c : char; const s : string) : integer
7005: Function BoldNamesEqual( const name1, name2 : string) : Boolean
7006: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7007: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7008: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string) : string
7009: Function BoldTrim( const S : string) : string
7010: Function BoldIsPrefix( const S, Prefix : string) : Boolean
7011: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
7012: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7013: Function BoldAnsiEqual( const S1, S2 : string) : Boolean
7014: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer) : Boolean
7015: Function BoldCaseIndependentPos( const Substr, S : string) : Integer
7016: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7017: Function CapitalisedToSpaced( Capitalised : String) : String
7018: Function SpacedToCapitalised( Spaced : String) : String
7019: Function BooleanToString( BoolValue : Boolean) : String
7020: Function StringToBoolean( StrValue : String) : Boolean
7021: Function GetUpperLimitForMultiplicity( const Multiplicity : String) : Integer
7022: Function GetLowerLimitForMultiplicity( const Multiplicity : String) : Integer
7023: Function StringListToVarArray( List : TStringList) : variant
7024: Function IsLocalMachine( const Machinename : WideString) : Boolean
7025: Function GetComputerNameStr : string
7026: Function TimeStampComp( const Time1, Time2 : TTimeStamp) : Integer
7027: Function BoldStrToDateFmt( const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7028: Function BoldDateToStrFmt( const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7029: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7030: Function BoldParseFormattedDate(const value:String;const formats:array of string; var Date:TDateTime):Boolean;
    Date:TDateTime;
7031: Procedure EnsureTrailing( var Str : String; ch : char)
7032: Function BoldDirectoryExists( const Name : string) : Boolean
7033: Function BoldForceDirectories( Dir : string) : Boolean
7034: Function BoldRootRegistryKey : string
7035: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7036: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7037: Function LogicalAnd( A, B : Integer) : Boolean
7038: record TByHandleFileInformation dwFileAttributes : DWORD;
7039:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7040:   +': TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSize'
7041:   +'nLow : DWORD; nNumberOfLinks : DWORD; nfileIndexHigh : DWORD; nfileIndexLow : DWORD; end
7042: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7043: Function IsFirstInstance : Boolean
7044: Procedure ActivateFirst( AString : PChar)
7045: Procedure ActivateFirstCommandLine
7046: function MakeAckPkt(const BlockNumber: Word): string;
7047: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string);
7048: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7049: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7050: procedure SendError(UDPClient: TIdUDPClient; E: Exception); overload;
7051: function IdStrToWord(const Value: String): Word;
7052: function IdWordToStr(const Value: Word): WordStr;
7053: Function HasInstructionSet( const InstructionSet : TCPUInstructionSet) : Boolean
7054: Function CPUFeatures : TCPUFeatures
7055:
7056: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7057: begin
7058:   AddTypeS('TXRTLBitIndex', 'Integer'
7059:   Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7060:   Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7061:   Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7062:   Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7063:   Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7064:   Function XRTLSwapHiLo16( X : Word) : Word
7065:   Function XRTLSwapHiLo32( X : Cardinal) : Cardinal
7066:   Function XRTLSwapHiLo64( X : Int64) : Int64
7067:   Function XRTLROL32( A, S : Cardinal) : Cardinal
7068:   Function XRTLROL32( A, S : Cardinal) : Cardinal

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7069: Function XRTLROL16( A : Word; S : Cardinal ) : Word
7070: Function XRTLROL16( A : Word; S : Cardinal ) : Word
7071: Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7072: Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7073: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7074: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7075: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer )
7076: Function XRTLPopulation( A : Cardinal ) : Cardinal
7077: end;
7078:
7079: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7080: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7081: Function XRTLURINormalize( const AURI : WideString ) : WideString
7082: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
    VPassword : WideString)
7083: Function XRTLExtractLongPathName(APath: string): string;
7084:
7085: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7086: begin
7087:   AddTypeS('Int8', 'ShortInt'
7088:   AddTypeS('Int16', 'SmallInt'
7089:   AddTypeS('Int32', 'LongInt'
7090:   AddTypeS('UInt8', 'Byte'
7091:   AddTypeS('UInt16', 'Word'
7092:   AddTypeS('UInt32', 'LongWord'
7093:   AddTypeS('UInt64', 'Int64'
7094:   AddTypeS('Word8', 'UInt8'
7095:   AddTypeS('Word16', 'UInt16'
7096:   AddTypeS('Word32', 'UInt32'
7097:   AddTypeS('Word64', 'UInt64'
7098:   AddTypeS('LargeInt', 'Int64'
7099:   AddTypeS('NativeInt', 'Integer'
7100:   AddTypeS('NativeUInt', 'Cardinal
7101:   Const('BitsPerByte','LongInt'( 8 );
7102:   Const('BitsPerWord','LongInt'( 16 );
7103:   Const('BitsPerLongWord','LongInt'( 32 );
7104: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7105: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7106: Function MinI( const A, B : Integer ) : Integer
7107: Function MaxI( const A, B : Integer ) : Integer
7108: Function MinC( const A, B : Cardinal ) : Cardinal
7109: Function MaxC( const A, B : Cardinal ) : Cardinal
7110: Function SumClipI( const A, I : Integer ) : Integer
7111: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7112: Function InByteRange( const A : Int64 ) : Boolean
7113: Function InWordRange( const A : Int64 ) : Boolean
7114: Function InLongWordRange( const A : Int64 ) : Boolean
7115: Function InShortIntRange( const A : Int64 ) : Boolean
7116: Function InSmallIntRange( const A : Int64 ) : Boolean
7117: Function InLongIntRange( const A : Int64 ) : Boolean
7118: AddTypeS('Bool8', 'ByteBool'
7119: AddTypeS('Bool16', 'WordBool
7120: AddTypeS('Bool32', 'LongBool
7121: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7122: AddTypeS('TCompareResultSet', 'set of TCompareResult
7123: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7124: Const('MinSingle','Single').setExtended( 1.5E-45 );
7125: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7126: Const('MinDouble','Double').setExtended( 5.0E-324 );
7127: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7128: Const('MinExtended','Extended').setExtended(3.4E-4932 );
7129: Const('MaxExtended','Extended').setExtended(1.1E+4932 );
7130: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );
7131: Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807 );
7132: Function MinF( const A, B : Float ) : Float
7133: Function MaxF( const A, B : Float ) : Float
7134: Function ClipF( const Value : Float; const Low, High : Float ) : Float
7135: Function InSingleRange( const A : Float ) : Boolean
7136: Function InDoubleRange( const A : Float ) : Boolean
7137: Function InCurrencyRange( const A : Float ) : Boolean;
7138: Function InCurrencyRangel( const A : Int64 ) : Boolean;
7139: Function FloatExponentBase2( const A : Extended; var Exponent : Integer ) : Boolean
7140: Function FloatExponentBase10( const A : Extended; var Exponent : Integer ) : Boolean
7141: Function FloatIsInfinity( const A : Extended ) : Boolean
7142: Function FloatIsNaN( const A : Extended ) : Boolean
7143: Const('SingleCompareDelta','Extended').setExtended( 1.0E-34 );
7144: Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280 );
7145: Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400 );
7146: Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34 );
7147: Function FloatZero( const A : Float; const CompareDelta : Float ) : Boolean
7148: Function FloatOne( const A : Float; const CompareDelta : Float ) : Boolean
7149: Function FloatsEqual( const A, B : Float; const CompareDelta : Float ) : Boolean
7150: Function FloatsCompare( const A, B : Float; const CompareDelta : Float ) : TCompareResult
7151: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5 );
7152: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13 );
7153: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17 );
7154: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10 );
7155: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double ) : Boolean
7156: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double): TCompareResult

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7157: Function cClearBit( const Value, BitIndex : LongWord) : LongWord
7158: Function cSetBit( const Value, BitIndex : LongWord) : LongWord
7159: Function cIsBitSet( const Value, BitIndex : LongWord) : Boolean
7160: Function cToggleBit( const Value, BitIndex : LongWord) : LongWord
7161: Function cIsHighBitSet( const Value : LongWord) : Boolean
7162: Function SetBitScanForward( const Value : LongWord) : Integer;
7163: Function SetBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7164: Function SetBitScanReverse( const Value : LongWord) : Integer;
7165: Function SetBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7166: Function ClearBitScanForward( const Value : LongWord) : Integer;
7167: Function ClearBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7168: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7169: Function ClearBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7170: Function cReverseBits( const Value : LongWord) : LongWord;
7171: Function cReverseBits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7172: Function cSwapEndian( const Value : LongWord) : LongWord
7173: Function cTwosComplement( const Value : LongWord) : LongWord
7174: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word
7175: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord
7176: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word
7177: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord
7178: Function cBitCount( const Value : LongWord) : LongWord
7179: Function cIsPowerOfTwo( const Value : LongWord) : Boolean
7180: Function LowBitMask( const HighBitIndex : LongWord) : LongWord
7181: Function HighBitMask( const LowBitIndex : LongWord) : LongWord
7182: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord
7183: Function SetbitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7184: Function ClearBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7185: Function ToggleBitRange( const Value: LongWord; const LowBitIndex, HighBitIndex: LongWord) : LongWord
7186: Function IsBitRangeSet( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7187: Function IsBitRangeClear( const Value: LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7188: // AddTypeS('CharSet', 'set of AnsiChar'
7189: AddTypeS('CharSet', 'set of Char' //!!!
7190: AddTypeS('AnsiCharSet', 'TCharSet'
7191: AddTypeS('ByteSet', 'set of Byte'
7192: AddTypeS('AnsiChar', 'Char
7193: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7194: Function AsByteSet( const C : array of Byte) : ByteSet
7195: Procedure ComplementChar( var C : CharSet; const Ch : Char)
7196: Procedure ClearCharSet( var C : CharSet)
7197: Procedure FillCharSet( var C : CharSet)
7198: Procedure ComplementCharSet( var C : CharSet)
7199: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7200: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet)
7201: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet)
7202: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet)
7203: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7204: Function IsSubSet( const A, B : CharSet) : Boolean
7205: Function IsEqual( const A, B : CharSet) : Boolean
7206: Function IsEmpty( const C : CharSet) : Boolean
7207: Function IsComplete( const C : CharSet) : Boolean
7208: Function cCharCount( const C : CharSet) : Integer
7209: Procedure ConvertCaseInsensitive( var C : CharSet)
7210: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet
7211: Function IntRangeLength( const Low, High : Integer) : Int64
7212: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean
7213: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean
7214: Function IntRangeHasElement( const Low, High, Element : Integer) : Boolean
7215: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer) : Boolean
7216: Function IntRangeIncludeElementRange(var Low,High:Integer;const LowElement,HighElement:Integer):Boolean
7217: Function CardRangeLength( const Low, High : Cardinal) : Int64
7218: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7219: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal) : Boolean
7220: Function CardRangeHasElement( const Low, High, Element : Cardinal) : Boolean
7221: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal) : Boolean
7222: Function CardRangeIncludeElementRange(var Low,High:Card;const LowElement,HighElement:Card):Boolean;
7223: AddTypeS('UnicodeChar', 'WideChar
7224: Function Compare( const I1, I2 : Boolean) : TCompareResult;
7225: Function CompareI( const I1, I2 : Integer) : TCompareResult;
7226: Function Compare2( const I1, I2 : Int64) : TCompareResult;
7227: Function Compare3( const I1, I2 : Extended) : TCompareResult;
7228: Function CompareA( const I1, I2 : AnsiString) : TCompareResult
7229: Function CompareW( const I1, I2 : WideString) : TCompareResult
7230: Function cSgn( const A : LongInt) : Integer;
7231: Function cSgn1( const A : Int64) : Integer;
7232: Function cSgn2( const A : Extended) : Integer;
7233: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )
7234: Function AnsiCharToInt( const A : AnsiChar) : Integer
7235: Function WideCharToInt( const A : WideChar) : Integer
7236: Function CharToInt( const A : Char) : Integer
7237: Function IntToAnsiChar( const A : Integer) : AnsiChar
7238: Function IntToWideChar( const A : Integer) : WideChar
7239: Function IntToChar( const A : Integer) : Char
7240: Function IsHexAnsiChar( const Ch : AnsiChar) : Boolean
7241: Function IsHexWideChar( const Ch : WideChar) : Boolean
7242: Function IsHexChar( const Ch : Char) : Boolean
7243: Function HexAnsiCharToInt( const A : AnsiChar) : Integer
7244: Function HexWideCharToInt( const A : WideChar) : Integer
7245: Function HexCharToInt( const A : Char) : Integer

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7246: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar
7247: Function IntToUpperHexWideChar( const A : Integer ) : WideChar
7248: Function IntToUpperHexChar( const A : Integer ) : Char
7249: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar
7250: Function IntToLowerHexWideChar( const A : Integer ) : WideChar
7251: Function IntToLowerHexChar( const A : Integer ) : Char
7252: Function IntToStringA( const A : Int64 ) : AnsiString
7253: Function IntToStringW( const A : Int64 ) : WideString
7254: Function IntToString( const A : Int64 ) : String
7255: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7256: Function UIntToStringW( const A : NativeUInt ) : WideString
7257: Function UIntToString( const A : NativeUInt ) : String
7258: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7259: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7260: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7261: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7262: Function LongWordToHexA( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString
7263: Function LongWordToHexW( const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString
7264: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7265: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7266: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7267: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7268: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7269: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7270: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7271: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7272: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7273: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7274: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7275: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7276: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7277: Function StringToInt64A( const S : AnsiString ) : Int64
7278: Function StringToInt64W( const S : WideString ) : Int64
7279: Function StringToInt64( const S : String ) : Int64
7280: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7281: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7282: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7283: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7284: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7285: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7286: Function StringToIntA( const S : AnsiString ) : Integer
7287: Function StringToIntW( const S : WideString ) : Integer
7288: Function StringToInt( const S : String ) : Integer
7289: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7290: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7291: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7292: Function StringToLongWordA( const S : AnsiString ) : LongWord
7293: Function StringToLongWordW( const S : WideString ) : LongWord
7294: Function StringToLongWord( const S : String ) : LongWord
7295: Function HexToUIntA( const S : AnsiString ) : NativeUInt
7296: Function HexToUIntW( const S : WideString ) : NativeUInt
7297: Function HexToUInt( const S : String ) : NativeUInt
7298: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7299: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7300: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7301: Function HexToLongWordA( const S : AnsiString ) : LongWord
7302: Function HexToLongWordW( const S : WideString ) : LongWord
7303: Function HexToLongWord( const S : String ) : LongWord
7304: Function TryOctoToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7305: Function TryOctoToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7306: Function TryOctoToLongWord( const S : String; out A : LongWord ) : Boolean
7307: Function OctoToLongWordA( const S : AnsiString ) : LongWord
7308: Function OctoToLongWordW( const S : WideString ) : LongWord
7309: Function OctoToLongWord( const S : String ) : LongWord
7310: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7311: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7312: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7313: Function BinToLongWordA( const S : AnsiString ) : LongWord
7314: Function BinToLongWordW( const S : WideString ) : LongWord
7315: Function BinToLongWord( const S : String ) : LongWord
7316: Function FloatToStringA( const A : Extended ) : AnsiString
7317: Function FloatToStringW( const A : Extended ) : WideString
7318: Function FloatToString( const A : Extended ) : String
7319: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7320: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7321: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7322: Function StringToFloatA( const A : AnsiString ) : Extended
7323: Function StringToFloatW( const A : WideString ) : Extended
7324: Function StringToFloat( const A : String ) : Extended
7325: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7326: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7327: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7328: Function EncodeBase64( const S, Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const PadChar: AnsiChar ) : AnsiString
7329: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7330: unit uPSI_cFundamentUtils;
7331: Const ('b64_MIMEBase64','Str').String('ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/-@');
7332: Const ('b64_UUEncode','String').String('!'#$%&'(*)+,-./0123456789:;<=>?@ABCDEFGHIJKLM NOPQRSTUVWXYZ[\]^_');
7333: Const ('b64_XXEncode','String').String('+0123456789ABCDEFGHIJKLM NOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz');

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7334: Const ('CCHARSET','Stringb64_XXEncode');
7335: Const ('CHEXSET','String'0123456789ABCDEF
7336: Const ('HEXDIGITS','String'0123456789ABCDEF
7337: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7338: Const ('DIGISET','String'0123456789
7339: Const ('LETTERSET','String'ABCDEFGHIJKLMNOPQRSTUVWXYZ
7340: Const ('DIGISET2','TCharset').SetSet('0123456789'
7341: Const ('LETTERSET2','TCharset').SetSet('ABCDEFGHIJKLMNOPQRSTUVWXYZ')
7342: Const ('HEXSET2','TCharset').SetSet('0123456789ABCDEF');
7343: Const ('NUMBERSET','TCharset').SetSet('0123456789');
7344: Const ('NUMBERS','String'0123456789);
7345: Const ('LETTERS','String'ABCDEFGHIJKLMNOPQRSTUVWXYZ);
7346: Function CharSetToStr( const C : CharSet) : AnsiString
7347: Function StrToCharSet( const S : AnsiString) : CharSet
7348: Function MIMEBase64Decode( const S : AnsiString) : AnsiString
7349: Function MIMEBase64Encode( const S : AnsiString) : AnsiString
7350: Function UUDecode( const S : AnsiString) : AnsiString
7351: Function XXDecode( const S : AnsiString) : AnsiString
7352: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean) : AnsiString
7353: Function InterfaceToStrA( const I : IInterface) : AnsiString
7354: Function InterfaceToStrW( const I : IInterface) : WideString
7355: Function InterfaceToStr( const I : IInterface) : String
7356: Function ObjectClassName( const O : TObject) : String
7357: Function ClassClassName( const C : TClass) : String
7358: Function ObjectToStr( const O : TObject) : String
7359: Function ObjectToString( const O : TObject) : String
7360: Function CharSetToStr( const C : CharSet) : AnsiString
7361: Function StrToCharSet( const S : AnsiString) : CharSet
7362: Function HashStrA(const S : AnsiString; const Index: Integer; const Count: Integer; const
    AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7363: Function HashStrW(const S:WideString;const Index:Integer;const Count:Integer;const
    AsciiCaseSensitive:Boolean; const Slots:LongWord) : LongWord
7364: Function HashStr(const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive
    : Boolean; const Slots : LongWord) : LongWord
7365: Function HashInteger( const I : Integer; const Slots : LongWord) : LongWord
7366: Function HashLongWord( const I : LongWord; const Slots : LongWord) : LongWord
7367: Const ('Bytes1KB','LongInt'( 1024);
7368: SIRegister_IInterface(CL);
7369: Procedure SelfTestCFundamentUtils
7370:
7371: Function CreateSchedule : IJclSchedule
7372: Function NullStamp : TTimeStamp
7373: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Int64
7374: Function EqualtimeStamps( const Stamp1, Stamp2 : TTimeStamp) : Boolean
7375: Function IsNullTimeStamp( const Stamp : TTimeStamp) : Boolean
7376:
7377: procedure SIRegister_uwinplot(CL: TPPascalCompiler);
7378: begin
7379: AddTypeS('TFunc', 'function(X : Float) : Float;
7380: Function InitGraphics( Width, Height : Integer) : Boolean
7381: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
7382: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
7383: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
7384: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float)
7385: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float)
7386: Procedure SetGraphTitle( Title : String)
7387: Procedure SetOxTitle( Title : String)
7388: Procedure SetOyTitle( Title : String)
7389: Function GetGraphTitle : String
7390: Function GetOxTitle : String
7391: Function GetOyTitle : String
7392: Procedure PlotOxAxis( Canvas : TCanvas)
7393: Procedure PlotOyAxis( Canvas : TCanvas)
7394: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7395: Procedure WriteGraphTitle( Canvas : TCanvas)
7396: Function SetMaxCurv( NCurv : Byte) : Boolean
7397: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7398: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7399: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7400: Procedure SetCurvStep( CurvIndex, Step : Integer)
7401: Function GetMaxCurv : Byte
7402: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7403: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7404: Function GetCurvLegend( CurvIndex : Integer) : String
7405: Function GetCurvStep( CurvIndex : Integer) : Integer
7406: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7407: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7408: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7409: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7410: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7411: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7412: Function Xpixel( X : Float) : Integer
7413: Function Ypixel( Y : Float) : Integer
7414: Function Xuser( X : Integer) : Float
7415: Function Yuser( Y : Integer) : Float
7416: end;
7417:
7418: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7419: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)

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7420: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7421: Procedure FFT_Integer_Cleanup
7422: Procedure CalcFrequency(NumSamples, FrequencyIndex: Integer; InArray: TCompVector; var FT : Complex)
7423: //unit uPST_JclStreams;
7424: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin) : Int64
7425: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer) : Int64
7426: Function CompareStreams( A, B : TStream; BufferSize : Integer) : Boolean
7427: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer) : Boolean
7428:
7429: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7430: begin
7431:   FindClass('TOBJECT'), 'EInvalidDest
7432:   FindClass('TOBJECT'), 'EFCantMove
7433:   Procedure fmxCopyFile( const FileName, DestName : string)
7434:   Procedure fmxMoveFile( const FileName, DestName : string)
7435:   Function fmxGetFileSize( const FileName : string) : LongInt
7436:   Function fmxFileDateTime( const FileName : string) : TDateTime
7437:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7438:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7439: end;
7440:
7441: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7442: begin
7443:   SIRegister_IFindFileIterator(CL);
7444:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7445: end;
7446:
7447: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7448: begin
7449:   Function SkipWhite( cp : PChar ) : PChar
7450:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string ) : PChar
7451:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string ) : PChar
7452:   Function ReadIdent( cp : PChar; var ident : string ) : PChar
7453: end;
7454:
7455: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7456: begin
7457:   SIRegister_TStringHashMapTraits(CL);
7458:   Function CaseSensitiveTraits : TStringHashMapTraits
7459:   Function CaseInsensitiveTraits : TStringHashMapTraits
7460:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod'
7461:   +'e; Right : PHashNode; end
7462:   //PHashArray', 'THashArray // will not work
7463:   SIRegister_TStringHashMap(CL);
7464:   THashValue', 'Cardinal
7465:   Function StrHash( const s : string ) : THashValue
7466:   Function TextHash( const s : string ) : THashValue
7467:   Function DataHash( var AValue, ASize : Cardinal ) : THashValue
7468:   Function Iterate_FreeObjects( AUUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7469:   Function Iterate_Dispose( AUUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7470:   Function Iterate_FreeMem( AUUserData : Pointer; const AStr : string; var AData : Pointer ) : Boolean
7471:   SIRegister_TCaseSensitiveTraits(CL);
7472:   SIRegister_TCaseInsensitiveTraits(CL);
7473:
7474:
7475: //*****unit uPST_umath;
7476: Function uExpo( X : Float ) : Float
7477: Function uExp2( X : Float ) : Float
7478: Function uExpl0( X : Float ) : Float
7479: Function uLog( X : Float ) : Float
7480: Function uLog2( X : Float ) : Float
7481: Function uLog10( X : Float ) : Float
7482: Function uLogA( X, A : Float ) : Float
7483: Function uIntPower( X : Float; N : Integer): Float
7484: Function uPower( X, Y : Float ) : Float
7485: Function SgnGamma( X : Float ) : Integer
7486: Function Stirling( X : Float ) : Float
7487: Function StirLog( X : Float ) : Float
7488: Function Gamma( X : Float ) : Float
7489: Function LnGamma( X : Float ) : Float
7490: Function DiGamma( X : Float ) : Float
7491: Function TriGamma( X : Float ) : Float
7492: Function IGamma( X : Float ) : Float
7493: Function JGamma( X : Float ) : Float
7494: Function InvGamma( X : Float ) : Float
7495: Function Erf( X : Float ) : Float
7496: Function Erfc( X : Float ) : Float
7497: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7498: { Correlation coefficient between samples X and Y }
7499: function DBeta(A, B, X : Float) : Float;
7500: { Density of Beta distribution with parameters A and B }
7501: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7502: Function Beta(X, Y : Float) : Float
7503: Function Binomial( N, K : Integer) : Float
7504: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7505: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7506: Procedure LU_Decompo( A : TMatrix; Lb, Ub : Integer)
7507: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7508: Function DNorm( X : Float ) : Float

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7509:
7510: function DGamma(A, B, X : Float) : Float;
7511: { Density of Gamma distribution with parameters A and B }
7512: function DKhi2(Nu : Integer; X : Float) : Float;
7513: { Density of Khi-2 distribution with Nu d.o.f. }
7514: function DStudent(Nu : Integer; X : Float) : Float;
7515: { Density of Student distribution with Nu d.o.f. }
7516: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
7517: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
7518: function IBeta(A, B, X : Float) : Float;
7519: { Incomplete Beta function}
7520: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7521:
7522: procedure SIRegister_unlfit(CL: TPSPascalCompiler);
7523: begin
7524: Procedure SetOptAlgo( Algo : TOptAlgo)
7525: procedure SetOptAlgo(Algo : TOptAlgo);
7526: { -----
7527: Sets the optimization algorithm according to Algo, which must be
7528: NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ }
7529:
7530: Function GetOptAlgo : TOptAlgo
7531: Procedure SetMaxParam( N : Byte)
7532: Function GetMaxParam : Byte
7533: Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7534: Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7535: Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7536: Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7537: Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub:Integer; MaxIter:Integer;Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7538: Procedure SetMCFile( FileName : String)
7539: Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7540: Procedure WSImFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
    LastPar:Integer;V:TMatrix);
7541: end;
7542:
7543: (*-----*)
7544: procedure SIRegister_usimplex(CL: TPSPascalCompiler);
7545: begin
7546: Procedure SaveSimplex( FileName : string)
7547: Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7548: end;
7549: (*-----*)
7550: procedure SIRegister uregtest(CL: TPSPascalCompiler);
7551: begin
7552: Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7553: Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7554: end;
7555:
7556: procedure SIRegister_ustrings(CL: TPSPascalCompiler);
7557: begin
7558: Function LTrim( S : String) : String
7559: Function RTrim( S : String) : String
7560: Function uTrim( S : String) : String
7561: Function StrChar( N : Byte; C : Char) : String
7562: Function RFill( S : String; L : Byte) : String
7563: Function LFill( S : String; L : Byte) : String
7564: Function CFill( S : String; L : Byte) : String
7565: Function Replace( S : String; C1, C2 : Char) : String
7566: Function Extract( S : String; var Index : Byte; Delim : Char) : String
7567: Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7568: Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7569: Function FloatStr( X : Float) : String
7570: Function IntStr( N : LongInt) : String
7571: Function uCompStr( Z : Complex) : String
7572: end;
7573:
7574: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7575: begin
7576: Function uSinh( X : Float) : Float
7577: Function uCosh( X : Float) : Float
7578: Function uTanh( X : Float) : Float
7579: Function uArcSinh( X : Float) : Float
7580: Function uArcCosh( X : Float) : Float
7581: Function ArcTanh( X : Float) : Float
7582: Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7583: end;
7584:
7585: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7586: begin
7587: type RNG_Type =
7588:   (RNG_MWC,      { Multiply-With-Carry }
7589:    RNG_MT,       { Mersenne Twister }
7590:    RNG_UVAG);    { Universal Virtual Array Generator }
7591: Procedure SetRNG( RNG : RNG_Type)
7592: Procedure InitGen( Seed : RNG_IntType)
7593: Procedure SRand( Seed : RNG_IntType)
7594: Function IRanGen : RNG_IntType

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7595: Function IRanGen31 : RNG_IntType
7596: Function RanGen1 : Float
7597: Function RanGen2 : Float
7598: Function RanGen3 : Float
7599: Function RanGen53 : Float
7600: end;
7601:
7602: // Optimization by Simulated Annealing
7603: procedure SIRegister_usimann(CL: TPSCompiler);
7604: begin
7605: Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7606: Procedure SA_CreateLogFile( FileName : String)
7607: Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7608: end;
7609:
7610: procedure SIRegister_urauvag(CL: TPSCompiler);
7611: begin
7612: Procedure InitUVAGbyString( KeyPhrase : string)
7613: Procedure InitUVAG( Seed : RNG_IntType)
7614: Function IRanUVAG : RNG_IntType
7615: end;
7616:
7617: procedure SIRegister_ugenalg(CL: TPSCompiler);
7618: begin
7619: Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7620: Procedure GA_CreateLogFile( LogFileName : String)
7621: Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7622: end;
7623:
7624: TVector', 'array of Float
7625: procedure SIRegister_uqsort(CL: TPSCompiler);
7626: begin
7627: Procedure QSort( X : TVector; Lb, Ub : Integer)
7628: Procedure DQSort( X : TVector; Lb, Ub : Integer)
7629: end;
7630:
7631: procedure SIRegister_uinterv(CL: TPSCompiler);
7632: begin
7633: Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7634: Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7635: end;
7636:
7637: procedure SIRegister_D2XXUnit(CL: TPSCompiler);
7638: begin
7639: FT_Result', 'Integer
7640: //TDWordptr', '^DWord // will not work
7641: TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor'
7642: d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PCha'
7643: r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7644: ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7645: yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7646: te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7647: ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7648: erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7649: Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By'
7650: te; IFBIsFastSer : Byte; AIsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B'
7651: yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7652: Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnabler : Byte; I'
7653: nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7654: ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 : '
7655: : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsvCP : B'
7656: yte; end
7657: end;
7658:
7659:
7660: //***** PaintFX*****
7661: procedure SIRegister_TJvPaintFX(CL: TPSCompiler);
7662: begin
7663: //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7664: with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7665: Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7666: Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7667: Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7668: Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7669: Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7670: Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7671: Procedure Turn( Src, Dst : TBitmap)
7672: Procedure TurnRight( Src, Dst : TBitmap)
7673: Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7674: Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7675: Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7676: Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7677: Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7678: Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7679: Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7680: Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7681: Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7682: Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7683: Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)

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7684: Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7685: Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7686: Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7687: Procedure Emboss( var Bmp : TBitmap)
7688: Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7689: Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7690: Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7691: Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7692: Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7693: Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7694: Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7695: Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7696: Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7697: Procedure QuartoOpaque( Src, Dst : TBitmap)
7698: Procedure SemiOpaque( Src, Dst : TBitmap)
7699: Procedure ShadowDownLeft( const Dst : TBitmap)
7700: Procedure ShadowDownRight( const Dst : TBitmap)
7701: Procedure ShadowUpLeft( const Dst : TBitmap)
7702: Procedure ShadowUpRight( const Dst : TBitmap)
7703: Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7704: Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7705: Procedure FlipRight( const Dst : TBitmap)
7706: Procedure FlipDown( const Dst : TBitmap)
7707: Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7708: Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7709: Procedure MakeSeamlessClip( var Dst : TBitmap; Sean : Integer)
7710: Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7711: Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7712: Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7713: Procedure SmoothResize( var Src, Dst : TBitmap)
7714: Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7715: Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7716: Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7717: Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7718: Procedure GrayScale( const Dst : TBitmap)
7719: Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7720: Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7721: Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7722: Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7723: Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7724: Procedure Spray( const Dst : TBitmap; Amount : Integer)
7725: Procedure AntiAlias( const Dst : TBitmap)
7726: Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7727: Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7728: Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7729: Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7730: Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7731: Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7732: Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7733: Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7734: Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7735: Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7736: Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7737: Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7738: Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7739: Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7740: Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7741: Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7742: Procedure Invert( Src : TBitmap)
7743: Procedure MirrorRight( Src : TBitmap)
7744: Procedure MirrorDown( Src : TBitmap)
7745: end;
7746: end;
7747:
7748: (*-----*)
7749: procedure SIRegister_JvPaintFX(CL: TPPascalCompiler);
7750: begin
7751:   AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe' +
7752:             +'ye, lbrotate, lbtwist, lbrimple, mbHor, mbTop, mbBottom, mbDiamond, mbWast' +
7753:             +'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )');
7754:   SIRegister_TJvPaintFX(CL);
7755:   Function SplineFilter( Value : Single) : Single
7756:   Function BellFilter( Value : Single) : Single
7757:   Function TriangleFilter( Value : Single) : Single
7758:   Function BoxFilter( Value : Single) : Single
7759:   Function HermiteFilter( Value : Single) : Single
7760:   Function Lanczos3Filter( Value : Single) : Single
7761:   Function MitchellFilter( Value : Single) : Single
7762: end;
7763:
7764:
7765: (*-----*)
7766: procedure SIRegister_Chart(CL: TPPascalCompiler);
7767: begin
7768:   'TeeMsg_DefaultFunctionName','String 'TeeFunction
7769:   TeeMsg_DefaultSeriesName','String 'Series
7770:   TeeMsg_DefaultToolName','String 'ChartTool
7771:   ChartComponentPalette','String 'TeeChart
7772:   TeeMaxLegendColumns',LongInt'( 2);

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7773: TeeDefaultLegendSymbolWidth', 'LongInt'( 20);
7774: TeeTitleFootDistance, LongInt( 5);
7775: SIRegister_TCustomChartWall(CL);
7776: SIRegister_TChartWall(CL);
7777: SIRegister_TChartLegendGradient(CL);
7778: TLegendStyle', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7779: TLegendAlignment', '( laLeft, laRight, laTop, laBottom )
7780: FindClass('TOBJECT'), 'Procedure ( Sender : TCustomAxisPanel; Legen'
7781: +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7782: FindClass('TOBJECT'), 'TCustomChartLegend
7783: TLegendSymbolSize', '( lcsPercent, lcsPixels )
7784: TLegendSymbolPosition', '( spLeft, spRight )
7785: TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7786: TSymbolCalcHeight', 'Function : Integer
7787: SIRegister_TLegendSymbol(CL);
7788: SIRegister_TTeeCustomShapePosition(CL);
7789: TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7790: SIRegister_TLegendTitle(CL);
7791: SIRegister_TLegendItem(CL);
7792: SIRegister_TLegendItems(CL);
7793: SIRegister_TLegendItems(CL);
7794: TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7795: FindClass('TOBJECT'), 'TCustomChart
7796: SIRegister_TCustomChartLegend(CL);
7797: SIRegister_TChartLegend(CL);
7798: SIRegister_TChartTitle(CL);
7799: SIRegister_TChartFootTitle(CL);
7800: TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7801: +'eButton; Shift : TShiftState; X, Y : Integer)
7802: TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7803: +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7804: TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7805: +TChartSeries; ValueIndex : Integer; Button : TMouseButton; Shift:TShiftState;X,Y:Integer)
7806: TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7807: +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7808: TOnGetLegendPos', 'Procedure ( Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7809: TOnGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7810: TAxissavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7811: +'toMax : Boolean; Min : Double; Max : Double; end
7812: TAxissavedScales', 'array of TAxissavedScales
7813: SIRegister_TChartBackWall(CL);
7814: SIRegister_TChartRightWall(CL);
7815: SIRegister_TChartBottomWall(CL);
7816: SIRegister_TChartLeftWall(CL);
7817: SIRegister_TChartWalls(CL);
7818: TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7819: SIRegister_TCustomChart(CL);
7820: SIRegister_TChart(CL);
7821: SIRegister_TTeeSeriesTypes(CL);
7822: SIRegister_TTeeToolTypes(CL);
7823: SIRegister_TTeeDragObject(CL);
7824: SIRegister_TColorPalettes(CL);
7825: Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
AGalleryPage:PString;ANumGallerySeries:Integer;
7826: Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADscription : PString);
7827: Procedure RegisterTeeFunction(AFuncClass:TTeeFunctionClass;ADescription,
AGalleryPage:PString;ANumGallerySeries: Int;
7828: Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADscription : PString);
7829: Procedure RegisterTeeSeriesFunction(ASeriesClass : TChartSeriesClass; AFunctionClass:TTeeFunctionClass;
ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7830: Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)
7831: Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass)
7832: Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7833: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass) : TTeeFunction
7834: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
AFunctionClass : TTeeFunctionClass) : TChartSeries
7835: Function CloneChartSeries( ASeries : TChartSeries) : TChartSeries;
7836: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel) : TChartSeries;
7837: Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7838: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7839: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7840: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7841: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7842: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7843: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7844: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7845: Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
R:TRect;ReferenceChart:TCustomChart);
7846: SIRegister_TChartTheme(CL);
7847: //TChartThemeClass', 'class of TChartTheme
7848: //TCanvasClass', 'class of TCanvas3D
7849: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7850: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7851: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean)
7852: Procedure ShowMessageUser( const S : String)
7853: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7854: Function HasLabels( ASeries : TChartSeries ) : Boolean
7855: Function HasColors( ASeries : TChartSeries ) : Boolean
7856: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag

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7857: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer )
7858: end;
7859:
7860:
7861: procedure SIRegister_TeeProcs(CL: TPPascalCompiler);
7862: begin
7863: // 'TeeFormBorderStyle', 'bsNone';
7864: SIRegister_TMetafile(CL);
7865: 'TeeDefVerticalMargin','LongInt'( 4 );
7866: 'TeeDefHorizMargin','LongInt'( 3 );
7867: 'crTeeHand','LongInt'( TCursor ( 2020 ) );
7868: 'TeeMsg_TeeHand','String 'crTeeHand
7869: 'TeeNormalPrintDetail','LongInt'( 0 );
7870: 'TeeHighPrintDetail','LongInt'( - 100 );
7871: 'TeeDefault_PrintMargin','LongInt'( 15 );
7872: 'MaxDefaultColors','LongInt'( 19 );
7873: 'TeeTabDelimiter','Char #9';
7874: TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7875: +'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7876: +'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7877: +'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7878: +'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7879: +'ourMonths, dtSixMonths, dtOneYear, dtNone )
7880: SIRegister_TCustomPanelNoCaption(CL);
7881: FindClass('TOBJECT'), 'TCustomTeePanel
7882: SIRegister_TZoomPanning(CL);
7883: SIRegister_TTeeEvent(CL);
7884: //SIRegister_TTeeEventListeners(CL);
7885: TTeeMouseEventKind', '( meDown, meUp, meMove )
7886: SIRegister_TTeeMouseEvent(CL);
7887: SIRegister_TCustomTeePanel(CL);
7888: //TChartGradient', 'TTeeGradient
7889: //TChartGradientClass', 'class of TChartGradient
7890: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7891: SIRegister_TTeeZoomPen(CL);
7892: SIRegister_TTeeZoomBrush(CL);
7893: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7894: SIRegister_TTeeZoom(CL);
7895: FindClass('TOBJECT'), 'TCustomTeePanelExtended
7896: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7897: SIRegister_TBackImage(CL);
7898: SIRegister_TCustomTeePanelExtended(CL);
7899: //TChartBrushClass', 'class of TChartBrush
7900: SIRegister_TTeeCustomShapeBrushPen(CL);
7901: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7902: TTextFormat', '( ttfNormal, ttfHtml )
7903: SIRegister_TTeeCustomShape(CL);
7904: SIRegister_TTeeShape(CL);
7905: SIRegister_TTeeExportData(CL);
7906: Function TeeStr( const Num : Integer ) : String
7907: Function DateTimeDefaultFormat( const AStep : Double ) : String
7908: Function TEEDaysInMonth( Year, Month : Word ) : Word
7909: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep
7910: Function NextDateTimeStep( const AStep : Double ) : Double
7911: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7912: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7913: Function PointInLine2(const P,FromPoint,ToPoint:TPoint;const TolerancePixels:Integer):Boolean;
7914: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer ):Boolean;
7915: Function PointInLineTolerance( const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer ):Boolean;
7916: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean
7917: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
7918: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
7919: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;
7920: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7921: Function PointInEllipsel( const P: TPoint;Left,Top,Right, Bottom : Integer ) : Boolean;
7922: Function DelphiToLocalFormat( const Format : String ) : String
7923: Function LocalToDelphiFormat( const Format : String ) : String
7924: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
7925: Function TeeRoundDate( const ADate : TDateTime; AStep : TDateTimeStep ) : TDateTime
7926: Procedure TeeDateTimeIncrement( IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
7927: TeeSortCompare', 'Function ( a, b : Integer ) : Integer
7928: TTeeSortSwap', 'Procedure ( a, b : Integer )
7929: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:T TeeSortCompare;SwapFunc:T TeeSortSwap);
7930: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string
7931: Function TeeExtractField( St : String; Index : Integer ) : String;
7932: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
7933: Function TeeNumFields( St : String ) : Integer;
7934: Function TeeNumFields1( const St, Separator : String ) : Integer;
7935: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap)
7936: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Namel, Name2 : String )
7937: // TColorArray', 'array of TColor
7938: Function GetDefaultColor( const Index : Integer ) : TColor
7939: Procedure SetDefaultColorPalette;
7940: Procedure SetDefaultColorPalettes( const Palette : array of TColor );
7941: 'TeeCheckBoxSize','LongInt'( 11 );
7942: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7943: Function TEEStrToFloatDef( const S : string; const Default : Extended ) : Extended
7944: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean

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7945: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double) : Boolean
7946: Procedure TeeTranslateControl( AControl : TControl);
7947: Procedure TeeTranslateControl( AControl : TControl; const ExcludeChilds : array of TControl);
7948: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char) : String
7949: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints)
7950: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean) : TBitmap
7951: //Procedure DrawBevel(Canvas:TTeeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7952: //Function ScreenRatio( ACanvas : TCanvas3D) : Double
7953: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean) : Boolean
7954: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean)
7955: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer) : Integer
7956: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer)
7957: Function TeeReadStringOption( const AKey, DefaultValue : String) : String
7958: Procedure TeeSaveStringOption( const AKey, Value : String)
7959: Function TeeDefaultXMLEncoding : String
7960: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean)
7961: TeeWindowHandle', 'Integer
7962: Procedure TeeGotoURL( Handle : TeeWindowHandle; const URL : String)
7963: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String)
7964: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String) : TSize
7965: end;
7966:
7967:
7968: using mXBDEUtils
7969: ****
7970: Procedure SetAlias( aAlias, aDirectory : String)
7971: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
7972: Function GetFileVersionNumber( const FileName : String) : TVersionNo
7973: Procedure SetBDE( aPath, aNode, aValue : String)
7974: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
7975: Function GetSystemDirectory( lpBuffer : string; uSize : UINT) : UINT
7976: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT) : UINT
7977: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string) : DWORD
7978: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string) : DWORD
7979: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
7980:
7981:
7982: procedure SIRegister_cDateTime(CL: TPPascalCompiler);
7983: begin
7984: AddClassN(FindClass('TOBJECT'), 'EDateTime'
7985: Function DatePart( const D : TDateTime) : Integer
7986: Function TimePart( const D : TDateTime) : Double
7987: Function Century( const D : TDateTime) : Word
7988: Function Year( const D : TDateTime) : Word
7989: Function Month( const D : TDateTime) : Word
7990: Function Day( const D : TDateTime) : Word
7991: Function Hour( const D : TDateTime) : Word
7992: Function Minute( const D : TDateTime) : Word
7993: Function Second( const D : TDateTime) : Word
7994: Function Millisecond( const D : TDateTime) : Word
7995: ('OneDay','Extended').SetExtended( 1.0);
7996: ('OneHour','Extended').SetExtended( OneDay / 24);
7997: ('OneMinute','Extended').SetExtended( OneHour / 60);
7998: ('OneSecond','Extended').SetExtended( OneMinute / 60);
7999: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000);
8000: ('OneWeek','Extended').SetExtended( OneDay * 7);
8001: ('HoursPerDay','Extended').SetExtended( 24);
8002: ('MinutesPerHour','Extended').SetExtended( 60);
8003: ('SecondsPerMinute','Extended').SetExtended( 60);
8004: Procedure SetYear( var D : TDateTime; const Year : Word)
8005: Procedure SetMonth( var D : TDateTime; const Month : Word)
8006: Procedure SetDay( var D : TDateTime; const Day : Word)
8007: Procedure SetHour( var D : TDateTime; const Hour : Word)
8008: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8009: Procedure SetSecond( var D : TDateTime; const Second : Word)
8010: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8011: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8012: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8013: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8014: Function IsAM( const D : TDateTime) : Boolean
8015: Function IsPM( const D : TDateTime) : Boolean
8016: Function IsMidnight( const D : TDateTime) : Boolean
8017: Function IsNoon( const D : TDateTime) : Boolean
8018: Function IsSunday( const D : TDateTime) : Boolean
8019: Function IsMonday( const D : TDateTime) : Boolean
8020: Function IsTuesday( const D : TDateTime) : Boolean
8021: Function IsWednesday( const D : TDateTime) : Boolean
8022: Function IsThursday( const D : TDateTime) : Boolean
8023: Function IsFriday( const D : TDateTime) : Boolean
8024: Function IsSaturday( const D : TDateTime) : Boolean
8025: Function IsWeekend( const D : TDateTime) : Boolean
8026: Function Noon( const D : TDateTime) : TDateTime
8027: Function Midnight( const D : TDateTime) : TDateTime
8028: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8029: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8030: Function NextWorkday( const D : TDateTime) : TDateTime
8031: Function PreviousWorkday( const D : TDateTime) : TDateTime
8032: Function FirstDayOfYear( const D : TDateTime) : TDateTime

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8033: Function LastDayOfYear( const D : TDateTime ) : TDateTime
8034: Function EasterSunday( const Year : Word ) : TDateTime
8035: Function GoodFriday( const Year : Word ) : TDateTime
8036: Function AddMilliseconds( const D : TDateTime; const N : Int64 ) : TDateTime
8037: Function AddSeconds( const D : TDateTime; const N : Int64 ) : TDateTime
8038: Function AddMinutes( const D : TDateTime; const N : Integer ) : TDateTime
8039: Function AddHours( const D : TDateTime; const N : Integer ) : TDateTime
8040: Function AddDays( const D : TDateTime; const N : Integer ) : TDateTime
8041: Function AddWeeks( const D : TDateTime; const N : Integer ) : TDateTime
8042: Function AddMonths( const D : TDateTime; const N : Integer ) : TDateTime
8043: Function AddYears( const D : TDateTime; const N : Integer ) : TDateTime
8044: Function DayOfYear( const Ye, Mo, Da : Word ) : Integer
8045: Function DayOfYear( const D : TDateTime ) : Integer
8046: Function DaysInMonth( const Ye, Mo : Word ) : Integer
8047: Function DaysInMonth( const D : TDateTime ) : Integer
8048: Function DaysInYear( const Ye : Word ) : Integer
8049: Function DaysInYearDate( const D : TDateTime ) : Integer
8050: Function WeekNumber( const D : TDateTime ) : Integer
8051: Function ISOFirstWeekOfYear( const Ye : Word ) : TDateTime
8052: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word )
8053: Function DiffMilliseconds( const D1, D2 : TDateTime ) : Int64
8054: Function DiffSeconds( const D1, D2 : TDateTime ) : Integer
8055: Function DiffMinutes( const D1, D2 : TDateTime ) : Integer
8056: Function DiffHours( const D1, D2 : TDateTime ) : Integer
8057: Function DiffDays( const D1, D2 : TDateTime ) : Integer
8058: Function DiffWeeks( const D1, D2 : TDateTime ) : Integer
8059: Function DiffMonths( const D1, D2 : TDateTime ) : Integer
8060: Function DiffYears( const D1, D2 : TDateTime ) : Integer
8061: Function GMTBias : Integer
8062: Function GMTTimeToLocalTime( const D : TDateTime ) : TDateTime
8063: Function LocalTimeToGMTTime( const D : TDateTime ) : TDateTime
8064: Function NowAsGMTTime : TDateTime
8065: Function DatetimeToISO8601String( const D : TDateTime ) : AnsiString
8066: Function ISO8601StringToTime( const D : AnsiString ) : TDateTime
8067: Function ISO8601StringAsDateTime( const D : AnsiString ) : TDateTime
8068: Function DateToString( const D : TDateTime ) : Integer
8069: Function ANSIToDate( const Julian : Integer ) : TDateTime
8070: Function DateTimeToISOInteger( const D : TDateTime ) : Integer
8071: Function DateTimeToISOString( const D : TDateTime ) : AnsiString
8072: Function ISOInteger.ToDateTime( const ISOInteger : Integer ) : TDateTime
8073: Function TwoDigitRadix2000YearToYear( const Y : Integer ) : Integer
8074: Function DateTimeAsElapsedTime( const D : TDateTime; const IncludeMilliseconds : Boolean ) : AnsiString
8075: Function UnixTimeToDateTime( const UnixTime : LongWord ) : TDateTime
8076: Function DateTimeToUnixTime( const D : TDateTime ) : LongWord
8077: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8078: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8079: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8080: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8081: Function EnglishShortMonthStrA( const Month : Integer ) : AnsiString
8082: Function EnglishShortMonthStrU( const Month : Integer ) : UnicodeString
8083: Function EnglishLongMonthStrA( const Month : Integer ) : AnsiString
8084: Function EnglishLongMonthStrU( const Month : Integer ) : UnicodeString
8085: Function EnglishShortDayOfWeekA( const S : AnsiString ) : Integer
8086: Function EnglishShortDayOfWeekU( const S : UnicodeString ) : Integer
8087: Function EnglishLongDayOfWeekA( const S : AnsiString ) : Integer
8088: Function EnglishLongDayOfWeekU( const S : UnicodeString ) : Integer
8089: Function EnglishShortMonthA( const S : AnsiString ) : Integer
8090: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8091: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8092: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8093: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8094: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8095: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8096: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8097: Function RFCMonthA( const S : AnsiString ) : Word
8098: Function RFCMonthU( const S : UnicodeString ) : Word
8099: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds : Boolean ) : AnsiString
8100: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds : Boolean ) : UnicodeString
8101: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek : Boolean ) : AnsiString;
8102: Function GMTDateTimeToRFC1123DateTimeU( const D : TDateTime; const IncludeDayOfWeek : Boolean ) : UnicodeString;
8103: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8104: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8105: Function NowAsRFCDateTimeA : AnsiString
8106: Function NowAsRFCDateTimeU : UnicodeString
8107: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8108: Function RFCDateTimeToDate( const S : AnsiString ) : TDateTime
8109: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8110: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8111: Procedure SelfTest
8112: end;
8113: //*****CFileUtils*****
8114: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean
8115: Function PathHasDriveLetter( const Path : String ) : Boolean
8116: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8117: Function PathIsDriveLetter( const Path : String ) : Boolean
8118: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8119: Function PathIsDriveRoot( const Path : String ) : Boolean
8120: Function PathIsRootA( const Path : AnsiString ) : Boolean
8121: Function PathIsRoot( const Path : String ) : Boolean

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8122: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8123: Function PathIsUNCPath( const Path : String ) : Boolean
8124: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8125: Function PathIsAbsolute( const Path : String ) : Boolean
8126: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8127: Function PathIsDirectory( const Path : String ) : Boolean
8128: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8129: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8130: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8131: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8132: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8133: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8134: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8135: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8136: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8137: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8138: Function PathExpandA(const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8139: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8140: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8141: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8142: Procedure PathSplitLeftElementA(const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char);
8143: Procedure PathSplitLeftElement(const Path:String; var LeftElement,RightPath: String;const PathSep:Char);
8144: Procedure DecodeFilePathA( const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char );
8145: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8146: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8147: Function FileNameValid( const FileName : String ) : String
8148: Function FilePathA(const FileName,Path:AnsiString;const basePath:AnsiStr;const PathSep:Char):AnsiString;
8149: Function FilePath(const FileName, Path : String;const basePath : String;const PathSep : Char ) : String
8150: Function DirectoryExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8151: Function DirectoryExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8152: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8153: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8154: Procedure CCopyFile( const FileName, DestName : String )
8155: Procedure CMoveFile( const FileName, DestName : String )
8156: Function CDeleteFiles( const FileMask : String ) : Boolean
8157: Function FileSeekEx(const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8158: Procedure FileCloseEx( const FileHandle : TFileHandle )
8159: Function FileExistsA( const FileName : AnsiString ) : Boolean
8160: Function CFileExists( const FileName : String ) : Boolean
8161: Function CFileGetSize( const FileName : String ) : Int64
8162: Function FileGetDateTime( const FileName : String ) : TDateTime
8163: Function FileGetDateTime2( const FileName : String ) : TDateTime
8164: Function FileIsReadOnly( const FileName : String ) : Boolean
8165: Procedure FileDeleteEx( const FileName : String )
8166: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8167: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode
     : TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8168: Function DirectoryEntryExists( const Name : String ) : Boolean
8169: Function DirectoryEntrySize( const Name : String ) : Int64
8170: Function CDirectoryExists( const DirectoryName : String ) : Boolean
8171: Function DirectoryGetDateTime( const DirectoryName : String ) : TDateTime
8172: Procedure CDirectoryCreate( const DirectoryName : String )
8173: Function GetFirstFileNameMatching( const FileMask : String ) : String
8174: Function DirEntryGetAttr( const FileName : AnsiString ) : Integer
8175: Function DirEntryIsDirectory( const FileName : AnsiString ) : Boolean
8176: Function FileHasAttr( const FileName : String; const Attr : Word ) : Boolean
8177: AddTypeS('TLogicalDriveType', '( DriveRemovable, DriveFixed, DriveRemote,
     +DriveCDRom, DriveRamDisk, DriveTypeUnknown )'
8178: Function DriveIsValid( const Drive : Char ) : Boolean
8180: Function DriveGetType( const Path : Ansistring ) : TLogicalDriveType
8181: Function DriveFreeSpace( const Path : AnsiString ) : Int64
8182:
8183: procedure SIRegister_cTimers(CL: TPPascalCompiler);
8184: begin
8185:  AddClassN(FindClass('TOBJECT'), 'ETimers'
8186:  Const ('TickFrequency', 'LongInt'( 1000);Function GetTick : LongWord
8187:  Function TickDelta( const D1, D2 : LongWord ) : Integer
8188:  Function TickDeltaW( const D1, D2 : LongWord ) : LongWord
8189:  AddTypeS('THPTimer', 'Int64'
8190:  Procedure StartTimer( var Timer : THPTimer )
8191:  Procedure StopTimer( var Timer : THPTimer )
8192:  Procedure ResumeTimer( var StoppedTimer : THPTimer )
8193:  Procedure InitStoppedTimer( var Timer : THPTimer )
8194:  Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer )
8195:  Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Integer
8196:  Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Int64
8197:  Procedure WaitMicroseconds( const MicroSeconds : Integer )
8198:  Function GetHighPrecisionFrequency : Int64
8199:  Function GetHighPrecisionTimerOverhead : Int64
8200:  Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64 )
8201:  Procedure SelfTestCTimer
8202: end;
8203:
8204: procedure SIRegister_cRandom(CL: TPPascalCompiler);
8205: begin
8206:  Function RandomSeed : LongWord
8207:  Procedure AddEntropy( const Value : LongWord )
8208:  Function RandomUniform : LongWord;
8209:  Function RandomUniforml( const N : Integer ) : Integer;

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8210: Function RandomBoolean : Boolean
8211: Function RandomByte : Byte
8212: Function RandomByteNonZero : Byte
8213: Function RandomWord : Word
8214: Function RandomInt64 : Int64;
8215: Function RandomInt641( const N : Int64 ) : Int64;
8216: Function RandomHex( const Digits : Integer ) : String
8217: Function RandomFloat : Extended
8218: Function RandomAlphaStr( const Length : Integer ) : AnsiString
8219: Function RandomPseudoWord( const Length : Integer ) : AnsiString
8220: Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8221: Function mwcRandomLongWord : LongWord
8222: Function urnRandomLongWord : LongWord
8223: Function moaRandomFloat : Extended
8224: Function mwcRandomFloat : Extended
8225: Function RandomNormalF : Extended
8226: Procedure SelfTestCRandom
8227: end;
8228:
8229: procedure SIRegister_SynEditMiscProcs(CL: TPSCompiler);
8230: begin
8231: // PIntArray', '^TIntArray // will not work
8232: Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8233: TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8234: Function synMax( x, y : integer ) : integer
8235: Function synMin( x, y : integer ) : integer
8236: Function synMinMax( x, mi, ma : integer ) : integer
8237: Procedure synSwapInt( var l, r : integer )
8238: Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8239: Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8240: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8241: Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8242: Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8243: Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8244: Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8245: Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8246: Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8247: Function synCharIndex2CaretPos( Index, TabWidth : integer; const Line : string ) : integer
8248: Function synCaretPos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8249: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8250: Function synStrRScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8251: TStringType', '( stNone, stWideNumAlpha, stWideSymbol, stWideKatakana, stHiragana, stIdeograph, stControl, stKashida )
8252: +'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida '
8253: ('C3_NONSPACING','LongInt'( 1 );
8254: 'C3_DIACRITIC','LongInt'( 2 );
8255: 'C3_VOWELMARK','LongInt'( 4 );
8256: ('C3_SYMBOL','LongInt'( 8 );
8257: ('C3_KATAKANA','LongWord( $0010 );
8258: ('C3_HIRAGANA','LongWord( $0020 );
8259: ('C3_HALFWIDTH','LongWord( $0040 );
8260: ('C3_FULLWIDTH','LongWord( $0080 );
8261: ('C3_IDEOGRAPH','LongWord( $0100 );
8262: ('C3_KASHIDA','LongWord( $0200 );
8263: ('C3_LEXICAL','LongWord( $0400 );
8264: ('C3_ALPHA','LongWord( $8000 );
8265: ('C3_NOTAPPPLICABLE','LongInt'( 0 );
8266: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8267: Function synStrRScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8268: Function synIsStringType( Value : Word ) : TStringType
8269: Function synGetEOL( Line : PChar ) : PChar
8270: Function synEncodeString( s : string ) : string
8271: Function synDecodeString( s : string ) : string
8272: Procedure synFreeAndNil( var Obj: TObject )
8273: Procedure synAssert( Expr : Boolean )
8274: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8275: TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8276: TReplaceFlags', 'set of TReplaceFlag )
8277: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8278: Function synGetRValue( RGBValue : TColor ) : byte
8279: Function synGetGValue( RGBValue : TColor ) : byte
8280: Function synGetBValue( RGBValue : TColor ) : byte
8281: Function synRGB( r, g, b : Byte ) : Cardinal
8282: // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHighlighter
8283: // +lighter, Attri:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8284: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8285: HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer ) : Boolean
8286: Function synCalcFCs( const ABuf, ABufSize : Cardinal ) : Word
8287: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8288: end;
8289: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD
8290: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8291: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8292:
8293: procedure SIRegister_synaututil(CL: TPSCompiler);
8294: begin
8295: Function STimeZoneBias : integer
8296: Function TimeZone : string

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8297: Function Rfc822DateTime( t : TDateTime ) : string
8298: Function CDateTime( t : TDateTime ) : string
8299: Function SimpleDateTime( t : TDateTime ) : string
8300: Function AnsiDateTime( t : TDateTime ) : string
8301: Function GetMonthNumber( Value : String ) : integer
8302: Function GetTimeFromStr( Value : string ) : TDateTime
8303: Function GetDateMDYFromStr( Value : string ) : TDateTime
8304: Function DecodeRFCDateTime( Value : string ) : TDateTime
8305: Function GetUTCTime : TDateTime
8306: Function SetUTCTime( Newdt : TDateTime ) : Boolean
8307: Function SGetTick : LongWord
8308: Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8309: Function CodeInt( Value : Word ) : Ansistring
8310: Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8311: Function CodeLongInt( Value : LongInt ) : Ansistring
8312: Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8313: Function DumpStr( const Buffer : Ansistring ) : string
8314: Function DumpExStr( const Buffer : Ansistring ) : string
8315: Procedure Dump( const Buffer : AnsiString; DumpFile : string )
8316: Procedure DumpEx( const Buffer : AnsiString; DumpFile : string )
8317: Function TrimSPLeft( const S : string ) : string
8318: Function TrimSPRight( const S : string ) : string
8319: Function TrimSP( const S : string ) : string
8320: Function SeparateLeft( const Value, Delimiter : string ) : string
8321: Function SeparateRight( const Value, Delimiter : string ) : string
8322: Function SGetParameter( const Value, Parameter : string ) : string
8323: Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8324: Procedure ParseParameters( Value : string; const Parameters : TStrings )
8325: Function IndexByBegin( Value : string; const List : TStrings ) : integer
8326: Function GetEmailAddr( const Value : string ) : string
8327: Function GetEmailDesc( Value : string ) : string
8328: Function CStrToHex( const Value : Ansistring ) : string
8329: Function CIntToBin( Value : Integer; Digits : Byte ) : string
8330: Function CBinToInt( const Value : string ) : Integer
8331: Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string ):string
8332: Function CReplaceString( Value, Search, Replace : AnsiString ) : AnsiString
8333: Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8334: Function CRPos( const Sub, Value : String ) : Integer
8335: Function FetchBin( var Value : string; const Delimiter : string ) : string
8336: Function CFetch( var Value : string; const Delimiter : string ) : string
8337: Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8338: Function IsBinaryString( const Value : AnsiString ) : Boolean
8339: Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString ) : integer
8340: Procedure StringsTrim( const value : TStrings )
8341: Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8342: Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8343: Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8344: Function CCCountOfChar( const Value : string; aChr : char ) : integer
8345: Function UnquoteStr( const Value : string; Quote : Char ) : string
8346: Function QuoteStr( const Value : string; Quote : Char ) : string
8347: Procedure HeadersToList( const Value : TStrings )
8348: Procedure ListToHeaders( const Value : TStrings )
8349: Function SwapBytes( Value : integer ) : integer
8350: Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8351: Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8352: Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8353: Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar ) : AnsiString
8354: Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8355: Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8356: end;
8357:
8358: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8359: begin
8360:   ('CrcBufSize', 'LongInt' ( 2048 );
8361:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8362:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8363:   Function Adler32OfFile( FileName : AnsiString ) : LongInt
8364:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8365:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8366:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8367:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8368:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8369:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8370:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8371:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8372:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8373:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8374:   Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8375:   Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
8376: end;
8377:
8378: procedure SIRegister_ComObj(CL: TPSPascalCompiler);
8379: begin
8380:   function CreateOleObject(const ClassName: String): IDispatch;
8381:   function GetActiveOleObject(const ClassName: String): IDispatch;
8382:   function ProgIDToClassID(const ProgID: string): TGUID;
8383:   function ClassIDToProgID(const ClassID: TGUID): string;
8384:   function CreateClassID: string;
8385:   function CreateGUIDString: string;

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8386: function CreateGUIDID: string;
8387: procedure OleError(ErrorCode: longint);
8388: procedure OleCheck(Result: HResult);
8389: end;
8390:
8391: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8392: Function xGetActiveOleObject( const ClassName : string ) : Variant
8393: //Function DllGetClassObject( const CLSID : TCLSID; const IID : TIID; var Obj ) : HResult
8394: Function DllCanUnloadNow : HResult
8395: Function DllRegisterServer : HResult
8396: Function DllUnregisterServer : HResult
8397: Function VarFromInterface( Unknown : IUnknown ) : Variant
8398: Function VarToInterface( const V : Variant ) : IDispatch
8399: Function VarToAutoObject( const V : Variant ) : TAutoObject
8400: //Procedure
8401: DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8402: //Procedure DispInvokeError( Status : HResult; const ExcepInfo : TExcepInfo )
8403: Procedure OleError( ErrorCode : HResult )
8404: Procedure OleCheck( Result : HResult )
8405: Function StringToClassID( const S : string ) : TCLSID
8406: Function ClassIDToString( const ClassID : TCLSID ) : string
8407: Function xProgIDToClassID( const ProgID : string ) : TCLSID
8408: Function xClassIDToProgID( const ClassID : TCLSID ) : string
8409: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8410: Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8411: Function xGUIDToString( const ClassID : TGUID ) : string
8412: Function xGetModuleName( Module : HMODULE ) : string
8413: Function xAcquireExceptionObject : TObject
8414: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8415: Function xUtf8Encode( const WS : WideString ) : UTF8String
8416: Function xUtf8Decode( const S : UTF8String ) : WideString
8417: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8418: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8419: Function XRTLHandleCOMException : HResult
8420: Procedure XRTLCheckArgument( Flag : Boolean )
8421: //Procedure XRTLCheckOutArgument( out Arg )
8422: Procedure XRTLInterfaceConnect( const Source:IUnknown; const IID:TIID; const Sink:IUnknown; var Connection:Longint );
8423: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID; var Connection : Longint )
8424: Function XRTLRegisterActiveObject( const Unk:IUnknown; const ClassID:TCLSID; const Flags:DWORD; var RegisterCookie:Int ):HResult
8425: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer ) : HResult
8426: //Function XRTLGetActiveObject( const ClassID : TCLSID; const IID : TIID; var Obj ) : HResult
8427: Procedure XRTLEnumActiveObjects( Strings : TStrings )
8428: function XRTLDefaultCategoryManager: IUnknown;
8429: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8430: // ICatRegister helper functions
8431: function XRTLCreateComponentCategory(CatID: TGUID; CatDescription: WideString;
8432:                                         LocaleID: TICID = LOCALE_USER_DEFAULT;
8433:                                         const CategoryManager: IUnknown = nil): HResult;
8434: function XRTLRemoveComponentCategory(CatID: TGUID; CatDescription: WideString;
8435:                                         LocaleID: TICID = LOCALE_USER_DEFAULT;
8436:                                         const CategoryManager: IUnknown = nil): HResult;
8437: function XRTLRegisterCLSIDInCategory(ClsID: TGUID; CatID: TGUID;
8438:                                         const CategoryManager: IUnknown = nil): HResult;
8439: function XRTLUnRegisterCLSIDInCategory(ClsID: TGUID; CatID: TGUID;
8440:                                         const CategoryManager: IUnknown = nil): HResult;
8441: // ICatInformation helper functions
8442: function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
8443:                                         LocaleID: TICID = LOCALE_USER_DEFAULT;
8444:                                         const CategoryManager: IUnknown = nil): HResult;
8445: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TICID = LOCALE_USER_DEFAULT;
8446:                                         const CategoryManager: IUnknown = nil): HResult;
8447: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
8448:                                         const CategoryManager: IUnknown = nil): HResult;
8449: function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
8450:                                         const CategoryManager: IUnknown = nil): HResult;
8451: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ';
8452:                         const ADelete: Boolean = True): WideString;
8453: function XRTLPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8454: Function XRTLGetVariantAsString( const Value : Variant ) : string
8455: Function XRTLDateTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8456: Function XRTLGetTimeZones : TXRTLTimeZones
8457: Function XFileTimeToDateTime( FileTime : TFileTime ) : TDateTime
8458: Function DateTimeToFileTime( DateTime : TDateTime ) : TFileTime
8459: Function GMTNow : TDateTime
8460: Function GMTToLocalTime( GMT : TDateTime ) : TDateTime
8461: Function LocalTimeToGMT( LocalTime : TDateTime ) : TDateTime
8462: Procedure XRTLNotImplemented
8463: Procedure XTRTLRaiseError( E : Exception )
8464: Procedure XRTLInvalidOperation( const ClassName:string; const OperationName:string; const Description: string )
8465:
8466:
8467: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8468: begin
8469:   SIRegister_IXRTLValue(CL);
8470:   SIRegister_TXRTLValue(CL);
8471:   //AddTypeS('PXRTLValueArray', '^TXRTLValueArray' // will not work

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8472: AddTypeS('TXRTLValueArray', 'array of IXRTLValue
8473: Function XRTLValue( const AValue : Cardinal ) : IXRTLValue;
8474: Function XRTLSetValue( const IValue : IXRTLValue; const AValue : Cardinal ) : Cardinal;
8475: Function XRTLGetAsCardinal( const IValue : IXRTLValue ) : Cardinal;
8476: Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal ) : Cardinal;
8477: Function XRTLValue1( const AValue : Integer ) : IXRTLValue;
8478: Function XRTLSetValue1( const IValue : IXRTLValue; const AValue : Integer ) : Integer;
8479: Function XRTLGetAsInteger( const IValue : IXRTLValue ) : Integer;
8480: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer;
8481: Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8482: Function XRTLSetValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8483: Function XRTLGetAsInt64( const IValue : IXRTLValue ) : Int64;
8484: Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64;
8485: Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8486: Function XRTLSetValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8487: Function XRTLGetAsSingle( const IValue : IXRTLValue ) : Single;
8488: Function XRTLGetAsSingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single;
8489: Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8490: Function XRTLSetValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8491: Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double;
8492: Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double;
8493: Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8494: Function XRTLSetValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8495: Function XRTLGetAsExtended( const IValue : IXRTLValue ) : Extended;
8496: Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended;
8497: Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8498: Function XRTLSetValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8499: Function XRTLGetAsInterface( const IValue : IXRTLValue ) : IInterface;
8500: //Function XRTLGetAsInterface1( const IValue : IXRTLValue; out Obj ) : IInterface;
8501: Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8502: Function XRTLValue7( const AValue : Widestring ) : IXRTLValue;
8503: Function XRTLSetValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8504: Function XRTLGetAsWideString( const IValue : IXRTLValue ) : WideString;
8505: Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString;
8506: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8507: Function XRTLSetValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8508: Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8509: Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
     ADetachOwnership : Boolean ) : TObject;
8510: //Function XRTLValue9( const AValue : _Pointer ) : IXRTLValue;
8511: //Function XRTLSetValue9( const IValue : IXRTLValue; const AValue : _Pointer ) : _Pointer;
8512: //Function XRTLGetAsPointer( const IValue : IXRTLValue ) : _Pointer;
8513: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer ) : _Pointer;
8514: Function XRTLValueV( const AValue : Variant ) : IXRTLValue;
8515: Function XRTLSetValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8516: Function XRTLGetAsVariant( const IValue : IXRTLValue ) : Variant;
8517: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant;
8518: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8519: Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8520: Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency;
8521: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency;
8522: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8523: Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8524: Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp;
8525: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp;
8526: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8527: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8528: Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass;
8529: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass;
8530: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8531: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8532: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID;
8533: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID;
8534: Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8535: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8536: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean;
8537: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean;
8538: end;
8539:
8540: //*****unit uPSI_GR32;*****
8541:
8542: Function Color32( WinColor : TColor ) : TColor32;
8543: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8544: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8545: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32;
8546: Function WinColor( Color32 : TColor32 ) : TColor;
8547: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32;
8548: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte );
8549: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte );
8550: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components;
8551: Function RedComponent( Color32 : TColor32 ) : Integer;
8552: Function GreenComponent( Color32 : TColor32 ) : Integer;
8553: Function BlueComponent( Color32 : TColor32 ) : Integer;
8554: Function AlphaComponent( Color32 : TColor32 ) : Integer;
8555: Function Intensity( Color32 : TColor32 ) : Integer;
8556: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32;
8557: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8558: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8559: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;

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8560: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte);
8561: Function WinPalette( const P : TPalette32) : HPALETTE
8562: Function FloatPoint( X, Y : Single) : TFloPoint;
8563: Function FloatPoint1( const P : TPoint) : TFloPoint;
8564: Function FloatPoint2( const FXP : TFixedPoint) : TFloPoint;
8565: Function FixedPoint( X, Y : Integer) : TFixedPoint;
8566: Function FixedPoint1( X, Y : Single) : TFixedPoint;
8567: Function FixedPoint2( const P : TPoint) : TFixedPoint;
8568: Function FixedPoint3( const FP : TFloPoint) : TFixedPoint;
8569: AddTypes('TRectRounding', '( rrClosest, rrOutside, rrInside )'
8570: Function MakeRect( const L, T, R, B : Integer) : TRect;
8571: Function MakeRect1( const FR : TFloRect; Rounding : TRectRounding) : TRect;
8572: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding) : TRect;
8573: Function GFixedRect( const L, T, R, B : TFixed) : TRect;
8574: Function FixedRect1( const ARect : TRect) : TRect;
8575: Function FixedRect2( const FR : TFloRect) : TRect;
8576: Function GFloatRect( const L, T, R, B : TFlo) : TFloRect;
8577: Function FloatRect1( const ARect : TRect) : TFloRect;
8578: Function FloatRect2( const FXR : TRect) : TFloRect;
8579: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect) : Boolean;
8580: Function IntersectRect1( out Dst : TFloRect; const FR1, FR2 : TFloRect) : Boolean;
8581: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean;
8582: Function UnionRect1( out Rect : TFloRect; const R1, R2 : TFloRect) : Boolean;
8583: Function GEEqualRect( const R1, R2 : TRect) : Boolean;
8584: Function EqualRect1( const R1, R2 : TFloRect) : Boolean;
8585: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer);
8586: Procedure InflateRect1( var FR : TFloRect; Dx, Dy : TFlo);
8587: Procedure GOFFsetRect( var R : TRect; Dx, Dy : Integer);
8588: Procedure OffsetRect1( var FR : TFloRect; Dx, Dy : TFlo);
8589: Function IsRectEmpty( const R : TRect) : Boolean;
8590: Function IsRectEmpty1( const FR : TFloRect) : Boolean;
8591: Function GPtInRect( const R : TRect; const P : TPoint) : Boolean;
8592: Function PtInRect1( const R : TFloRect; const P : TPoint) : Boolean;
8593: Function PtInRect2( const R : TRect; const P : TFloPoint) : Boolean;
8594: Function PtInRect3( const R : TFloRect; const P : TFloPoint) : Boolean;
8595: Function EqualRectSize( const R1, R2 : TRect) : Boolean;
8596: Function EqualRectSize1( const R1, R2 : TFloRect) : Boolean;
8597: Function MessageBeep( uType : UINT) : BOOL
8598: Function ShowCursor( bShow : BOOL) : Integer;
8599: Function SetCursorPos( X, Y : Integer) : BOOL
8600: Function SetCursor( hCursor : HICON) : HCURSOR
8601: Function GetCursorPos( var lpPoint : TPoint) : BOOL
8602: //Function ClipCursor( lpRect : PRect) : BOOL
8603: Function GetClipCursor( var lpRect : TRect) : BOOL
8604: Function GetCursor : HCURSOR
8605: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer) : BOOL
8606: Function GetCaretBlinkTime : UINT
8607: Function SetCaretBlinkTime( uMSecs : UINT) : BOOL
8608: Function DestroyCaret : BOOL
8609: Function HideCaret( hWnd : HWND) : BOOL
8610: Function ShowCaret( hWnd : HWND) : BOOL
8611: Function SetCaretPos( X, Y : Integer) : BOOL
8612: Function GetCaretPos( var lpPoint : TPoint) : BOOL
8613: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint) : BOOL
8614: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint) : BOOL
8615: Function MapWindowPoints(hWndFrom,hWndTo:HWND; var lpPoints, cPoints : UINT) : Integer
8616: Function WindowFromPoint( Point : TPoint) : HWND
8617: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint) : HWND
8618:
8619:
8620: procedure SIRegister_GR32_Math(CL: TPPascalCompiler);
8621: begin
8622:   Function FixedFloor( A : TFixed) : Integer;
8623:   Function FixedCeil( A : TFixed) : Integer;
8624:   Function FixedMul( A, B : TFixed) : TFixed;
8625:   Function FixedDiv( A, B : TFixed) : TFixed;
8626:   Function OneOver( Value : TFixed) : TFixed;
8627:   Function FixedRound( A : TFixed) : Integer;
8628:   Function FixedSqr( Value : TFixed) : TFixed;
8629:   Function FixedSqrLP( Value : TFixed) : TFixed;
8630:   Function FixedSqrHP( Value : TFixed) : TFixed;
8631:   Function FixedCombine( W, X, Y : TFixed) : TFixed;
8632:   Procedure GRSinCos( const Theta : TFlo; out Sin, Cos : TFlo);
8633:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single);
8634:   Function GRHypot( const X, Y : TFlo) : TFlo;
8635:   Function Hypot1( const X, Y : Integer) : Integer;
8636:   Function FastSqrt( const Value : TFlo) : TFlo;
8637:   Function FastSqrBab1( const Value : TFlo) : TFlo;
8638:   Function FastSqrBab2( const Value : TFlo) : TFlo;
8639:   Function FastInvSqrt( const Value : Single) : Single;
8640:   Function MulDiv( Multiplicand, Multiplier, Divisor : Integer) : Integer;
8641:   Function GRIIsPowerOf2( Value : Integer) : Boolean;
8642:   Function PrevPowerOf2( Value : Integer) : Integer;
8643:   Function NextPowerOf2( Value : Integer) : Integer;
8644:   Function Average( A, B : Integer) : Integer;
8645:   Function GRSign( Value : Integer) : Integer;
8646:   Function FloatMod( x, y : Double) : Double;
8647: end;
8648:

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8649: procedure SIRegister_GR32_LowLevel(CL: TPSPPascalCompiler);
8650: begin
8651:   Function Clamp( const Value : Integer ) : Integer;
8652:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword )
8653:   Function StackAlloc( Size : Integer ) : Pointer
8654:   Procedure StackFree( P : Pointer )
8655:   Procedure Swap( var A, B : Pointer );
8656:   Procedure Swap1( var A, B : Integer );
8657:   Procedure Swap2( var A, B : TFixed );
8658:   Procedure Swap3( var A, B : TColor32 );
8659:   Procedure TestSwap( var A, B : Integer );
8660:   Procedure TestSwap1( var A, B : TFixed );
8661:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8662:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8663:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8664:   Function Constrain1( const Value, Lo, Hi : Single ) : Single;
8665:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer ) : Integer
8666:   Function GRMin( const A, B, C : Integer ) : Integer;
8667:   Function GRMax( const A, B, C : Integer ) : Integer;
8668:   Function Clamp( Value, Max : Integer ) : Integer;
8669:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8670:   Function Wrap( Value, Max : Integer ) : Integer;
8671:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8672:   Function Wrap3( Value, Max : Single ) : Single;
8673:   Function WrapPow2( Value, Max : Integer ) : Integer;
8674:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8675:   Function Mirror( Value, Max : Integer ) : Integer;
8676:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8677:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8678:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8679:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8680:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8681:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8682:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8683:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8684:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8685:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8686:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ) : TWrapProcEx;
8687:   Function Div255( Value : Cardinal ) : Cardinal;
8688:   Function SAR_4( Value : Integer ) : Integer;
8689:   Function SAR_8( Value : Integer ) : Integer;
8690:   Function SAR_9( Value : Integer ) : Integer;
8691:   Function SAR_11( Value : Integer ) : Integer;
8692:   Function SAR_12( Value : Integer ) : Integer;
8693:   Function SAR_13( Value : Integer ) : Integer;
8694:   Function SAR_14( Value : Integer ) : Integer;
8695:   Function SAR_15( Value : Integer ) : Integer;
8696:   Function SAR_16( Value : Integer ) : Integer;
8697:   Function ColorSwap( WinColor : TColor ) : TColor32;
8698: end;
8699:
8700: procedure SIRegister_GR32_Filters(CL: TPSPPascalCompiler);
8701: begin
8702:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )');
8703:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8704:   Procedure CopyComponents1(Dst:TCustBmap32;Dstx,
DstY:Int/Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8705:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 );
8706:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean );
8707:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 );
8708:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8709:   Procedure InvertRGB( Dst, Src : TCustomBitmap32 );
8710:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean );
8711:   Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32 );
8712:   Function CreateBitmask( Components : TColor32Components ) : TColor32;
8713:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
Bitmask : TColor32; LogicalOperator : TLogicalOperator );
8714:   Procedure
ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8715:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean );
8716: end;
8717:
8718:
8719: procedure SIRegister_JclNTFS(CL: TPSPPascalCompiler);
8720: begin
8721:   AddClassN(FindClass('TOBJECT'), 'EJclNtfsError');
8722:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
8723:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8724:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8725:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean;
8726:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState );
8727:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState );
8728:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState );
8729:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState;Recursive:Boolean;
8730:   //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc';
8731:   //+tedRangeBuffer; MoreData : Boolean; end
8732:   Function NtfsSetSparse( const FileName : string ) : Boolean;
8733:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean;
8734:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean;

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8735: //Function NtfsQueryAllocRanges( const FileName:string;Offset,Count:Int64;var
8736:   Ranges:TNtfsAllocRanges):Boolean;
8737: Function NtfsSparseStreamsSupported( const Volume : string) : Boolean
8738: Function NtfsGetSparse( const FileName : string) : Boolean
8739: Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD) : Boolean
8740: Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword) : Boolean
8741: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8742: Function NtfsGetReparseTag( const Path : string; var Tag : DWORD) : Boolean
8743: Function NtfsReparsePointsSupported( const Volume : string) : Boolean
8744: Function NtfsFileHasReparsePoint( const Path : string) : Boolean
8745: Function NtfsIsFolderMountPoint( const Path : string) : Boolean
8746: Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char) : Boolean
8747: Function NtfsMountVolume( const Volume : Char; const MountPoint : string) : Boolean
8748: AddTypes('ToLock', '( olExclusive, olReadOnly, olBatch, olFilter )')
8749: Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped) : Boolean
8750: Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped) : Boolean
8751: Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped) : Boolean
8752: Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped) : Boolean
8753: Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped) : Boolean
8754: Function NtfsCreateJunctionPoint( const Source, Destination : string) : Boolean
8755: Function NtfsDeleteJunctionPoint( const Source : string) : Boolean
8756: Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string) : Boolean
8757: AddTypes('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8758:   + 'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )'
8759: AddTypeS('TStreamIds', 'set of TStreamId'
8760: AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context : '
8761:   + ': __Pointer; StreamIds : TStreamIds; end'
8762: AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At : '
8763:   + 'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end'
8764: Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8765: Function NtfsFindNextStream(var Data : TFindStreamData) : Boolean
8766: Function NtfsFindStreamClose( var Data : TFindStreamData) : Boolean
8767: Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string) : Boolean
8768: AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end'
8769: Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo) : Boolean
8770: Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
8771:   List:TStrings):Bool;
8772: Function NtfsDeleteHardLinks( const FileName : string) : Boolean
8773: Function JclAppInstances : TJclAppInstances;
8774: Function JclAppInstances1( const UniqueAppIdGuidStr : string) : TJclAppInstances;
8775: Procedure ReadMessageCheck( var Message: TMessage;const IgnoredOriginatorWnd: HWND) : TJclAppInstDataKind
8776: Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer)
8777: Procedure ReadMessageString( const Message : TMessage; var S : string)
8778:
8779:
8780: (*-----*)
8781: procedure SIRegister_JclGraphics(CL: TPPSPascalCompiler);
8782: begin
8783:   FindClass('TOBJECT','EJclGraphicsError
8784:   TDynIntegerArrayArray', 'array of TDynIntegerArray
8785:   TDynPointArray', 'array of TPoint
8786:   TDynDynPointArrayArray', 'array of TDynPointArray
8787:   TPointF', 'record X : Single; Y : Single; end
8788:   TDynPointArrayF', 'array of TPointF
8789:   TDrawMode2', '( dmOpaque, dmBlend )
8790:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8791:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8792:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8793:   TMatrix3d', 'record array[0..2,0..2] of extended end
8794:   TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8795:   TScanLine', 'array of Integer
8796:   TScanLines', 'array of TScanLine
8797:   TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8798:   TGradientDirection', '( gdVertical, gdHorizontal )
8799:   TPolyFillMode', '( fmAlternate, fmWinding )
8800:   TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8801:   TJclRegionBitmapMode', '( rmInclude, rmExclude )
8802:   TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8803:   SIRegister_TJclDesktopCanvas(CL);
8804:   FindClass('TOBJECT','TJclRegion
8805:   SIRegister_TJclRegionInfo(CL);
8806:   SIRegister_TJclRegion(CL);
8807:   SIRegister_TJclThreadPersistent(CL);
8808:   SIRegister_TJclCustomMap(CL);
8809:   SIRegister_TJclBitmap32(CL);
8810:   SIRegister_TJclByteMap(CL);
8811:   SIRegister_TJclTransformation(CL);
8812:   SIRegister_TJclLinearTransformation(CL);
8813:   Procedure Stretch(NewWidth,
8814:     NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8815:   Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8816:   Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8817:   Function GetAntialiasedBitmap( const Bitmap : TBitmap) : TBitmap
8818:   Procedure BitmapToJpeg( const FileName : string)
8819:   Procedure JpegToBitmap( const FileName : string)
8820:   Function ExtractIconCount( const FileName : string) : Integer

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```

8820: Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8821: Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8822: Procedure
8823:   BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8824:   Procedure StretchTransfer(Dst:TJclBitmap32;
8825:     DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8826:   Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8827:   Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect )
8828:   Function FillGradient( DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
8829:     TGradientDirection ) : Boolean;
8830:   Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
8831:     RegionBitmapMode:TJclRegionBitmapMode) : HGRN
8832:   Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND );
8833:   Procedure ScreenShot1( bm : TBitmap );
8834:   Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8835:   Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8836:   Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32 )
8837:   Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8838:   Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32 )
8839:   Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32 )
8840:   Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8841:   Procedure IntensityToAlpha( Dst, Src : TJclBitmap32 )
8842:   Procedure Invert( Dst, Src : TJclBitmap32 )
8843:   Procedure InvertRGB( Dst, Src : TJclBitmap32 )
8844:   Procedure ColorToGrayscale( Dst, Src : TJclBitmap32 )
8845:   Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8 )
8846:   Procedure SetGamma( Gamma : Single )
8847: end;
8848: (*-----*)
8849: procedure SIRegister_JclSynch(CL: TPSPPascalCompiler);
8850: begin
8851:   Function LockedAdd( var Target : Integer; Value : Integer ) : Integer
8852:   Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer ) : Integer
8853:   Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer ) : Pointer;
8854:   Function LockedDec( var Target : Integer ) : Integer
8855:   Function LockedExchange( var Target : Integer; Value : Integer ) : Integer
8856:   Function LockedExchangeAdd( var Target : Integer; Value : Integer ) : Integer
8857:   Function LockedExchangeDec( var Target : Integer ) : Integer
8858:   Function LockedExchangeInc( var Target : Integer ) : Integer
8859:   Function LockedExchangeSub( var Target : Integer; Value : Integer ) : Integer
8860:   Function LockedInc( var Target : Integer ) : Integer
8861:   Function LockedSub( var Target : Integer; Value : Integer ) : Integer
8862:   TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8863:   SIRegister_TJclDispatcherObject(CL);
8864:   Function WaitForMultipleObjects(const Objects:array of
8865:     TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8866:   Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
8867:     TimeOut : Cardinal):Cardinal
8868:   SIRegister_TJclCriticalSection(CL);
8869:   SIRegister_TJclCriticalSectionEx(CL);
8870:   SIRegister_TJclEvent(CL);
8871:   SIRegister_TJclWaitableTimer(CL);
8872:   SIRegister_TJclSemaphore(CL);
8873:   SIRegister_TJclMutex(CL);
8874:   POptexSharedInfo', '^POptexSharedInfo // will not work
8875:   TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8876:   SIRegister_TJclOptex(CL);
8877:   TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8878:   TMrewThreadInfo', 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end
8879:   TMrewThreadInfoArray', 'array of TMrewThreadInfo
8880:   SIRegister_TJclMultiReadExclusiveWrite(CL);
8881:   PMetSectSharedInfo', '^PMetSectSharedInfo // will not work
8882:   TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
8883:   + 'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8884:   PMeteredSection', '^TMeteredSection // will not work
8885:   TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8886:   SIRegister_TJclMeteredSection(CL);
8887:   TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8888:   TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8889:   TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8890:   TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8891:   Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTCriticalSection ) : Boolean
8892:   Function QueryEvent( Handle : THandle; var Info : TEventInfo ) : Boolean
8893:   Function QueryMutex( Handle : THandle; var Info : TMutexInfo ) : Boolean
8894:   Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts ) : Boolean
8895:   Function QueryTimer( Handle : THandle; var Info : TTimerInfo ) : Boolean
8896:   FindClass('TOBJECT'), 'EJclWin32HandleObjectError
8897:   FindClass('TOBJECT'), 'EJclDispatcherObjectError
8898:   FindClass('TOBJECT'), 'EJclCriticalSectionError
8899:   FindClass('TOBJECT'), 'EJclEventError
8900:   FindClass('TOBJECT'), 'EJclWaitableTimerError
8901:   FindClass('TOBJECT'), 'EJclSemaphoreError
8902:   FindClass('TOBJECT'), 'EJclMutexError
8903:   FindClass('TOBJECT'), 'EJclMeteredSectionError
8904: end;
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8903:
8904:
8905: //*****unit uPSI_mORMotReport;
8906: Procedure SetCurrentPrinterAsDefault
8907: Function CurrentPrinterName : string
8908: Function mCurrentPrinterPaperSize : string
8909: Procedure UseDefaultPrinter
8910:
8911: procedure SIRegisterTSTREAM(Cl: TPSPascalCompiler);
8912: begin
8913:   with FindClass( 'TOBJECT' ), 'TStream' ) do begin
8914:     IsAbstract := True;
8915:     //RegisterMethod('Function Read( var Buffer, Count : Longint ) : Longint
8916:     // RegisterMethod('Function Write( const Buffer, Count : Longint ) : Longint
8917:       function Read(Buffer:String;Count:LongInt):LongInt
8918:       function Write(Buffer:String;Count:LongInt):LongInt
8919:       function ReadString(Buffer:String;Count:LongInt):LongInt      //FileStream
8920:       function WriteString(Buffer:String;Count:LongInt):LongInt
8921:       function ReadInt(Buffer:integer;Count:LongInt):LongInt
8922:       function WriteInt(Buffer:integer;Count:LongInt):LongInt
8923:       function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt' );
8924:       function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt' );
8925:
8926:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
8927:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
8928:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8929:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8930:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8931:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8932:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8933:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8934:
8935:     function Seek(Offset:LongInt;Origin:Word):LongInt
8936:     procedure ReadBuffer(Buffer:String;Count:LongInt)
8937:     procedure WriteBuffer(Buffer:String;Count:LongInt)
8938:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)');
8939:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)');
8940:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)');
8941:     procedure WriteBufferFloat(Buffer:Double;Count:LongInt)');
8942:
8943:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
8944:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
8945:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8946:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8947:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8948:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8949:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8950:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8951:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8952:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8953:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8954:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8955:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8956:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8957:
8958:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8959:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8960:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)');
8961:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)');
8962: //READBUFFERAC
8963:   function InstanceSize: Longint
8964:   Procedure FixupResourceHeader( FixupInfo : Integer )
8965:   Procedure ReadResHeader
8966:
8967: {$IFDEF DELPHI4UP}
8968:   function CopyFrom(Source:TStream;Count:Int64):LongInt
8969: {$ELSE}
8970:   function CopyFrom(Source:TStream;Count:Integer):LongInt
8971: {$ENDIF}
8972:   RegisterProperty('Position', 'LongInt', iptrw);
8973:   RegisterProperty('Size', 'LongInt', iptrw);
8974: end;
8975: end;
8976:
8977:
8978: { ****
8979: Unit DMATH - Interface for DMATH.DLL
8980: **** }
8981: // see more docs/dmath_manual.pdf
8982:
8983: Function InitEval : Integer
8984: Procedure SetVariable( VarName : Char; Value : Float )
8985: Procedure SetFunction( FuncName : String; Wrapper : TWrapper )
8986: Function Eval( ExpressionString : String ) : Float
8987:
8988: unit dmath; //types are in built, others are external in DLL
8989: interface
8990: {$IFDEF DELPHI}
8991: uses

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8992:   StdCtrls, Graphics;
8993: {$ENDIF}
8994: { -----
8995:   Types and constants
8996: ----- }
8997: {$i types.inc}
8998: { -----
8999:   Error handling
9000: ----- }
9001: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9002: { Sets the error code }
9003: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9004: { Sets error code and default function value }
9005: function MathErr : Integer; external 'dmath';
9006: { Returns the error code }
9007: { -----
9008:   Dynamic arrays
9009: ----- }
9010: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9011: { Sets the auto-initialization of arrays }
9012: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9013: { Creates floating point vector V[0..Ub] }
9014: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9015: { Creates integer vector V[0..Ub] }
9016: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9017: { Creates complex vector V[0..Ub] }
9018: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9019: { Creates boolean vector V[0..Ub] }
9020: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9021: { Creates string vector V[0..Ub] }
9022: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9023: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9024: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9025: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9026: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9027: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9028: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9029: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9030: procedure DimStrMatrix(var A : TStringMatrix; Ub1, Ub2 : Integer); external 'dmath';
9031: { Creates string matrix A[0..Ub1, 0..Ub2] }
9032: { -----
9033:   Minimum, maximum, sign and exchange
9034: ----- }
9035: function FMin(X, Y : Float) : Float; external 'dmath';
9036: { Minimum of 2 reals }
9037: function FMax(X, Y : Float) : Float; external 'dmath';
9038: { Maximum of 2 reals }
9039: function IMin(X, Y : Integer) : Integer; external 'dmath';
9040: { Minimum of 2 integers }
9041: function IMax(X, Y : Integer) : Integer; external 'dmath';
9042: { Maximum of 2 integers }
9043: function Sgn(X : Float) : Integer; external 'dmath';
9044: { Sign (returns 1 if X = 0) }
9045: function Sgn0(X : Float) : Integer; external 'dmath';
9046: { Sign (returns 0 if X = 0) }
9047: function DSgn(A, B : Float) : Float; external 'dmath';
9048: { Sgn(B) * |A| }
9049: procedure FSwap(var X, Y : Float); external 'dmath';
9050: { Exchange 2 reals }
9051: procedure ISwap(var X, Y : Integer); external 'dmath';
9052: { Exchange 2 integers }
9053: { -----
9054:   Rounding functions
9055: ----- }
9056: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9057: { Rounds X to N decimal places }
9058: function Ceil(X : Float) : Integer; external 'dmath';
9059: { Ceiling function }
9060: function Floor(X : Float) : Integer; external 'dmath';
9061: { Floor function }
9062: { -----
9063:   Logarithms, exponentials and power
9064: ----- }
9065: function Expo(X : Float) : Float; external 'dmath';
9066: { Exponential }
9067: function Exp2(X : Float) : Float; external 'dmath';
9068: { 2^X }
9069: function Exp10(X : Float) : Float; external 'dmath';
9070: { 10^X }
9071: function Log(X : Float) : Float; external 'dmath';
9072: { Natural log }
9073: function Log2(X : Float) : Float; external 'dmath';
9074: { Log, base 2 }
9075: function Log10(X : Float) : Float; external 'dmath';
9076: { Decimal log }
9077: function LogA(X, A : Float) : Float; external 'dmath';
9078: { Log, base A }
9079: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9080: { X^N }

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9081: function Power(X, Y : Float) : Float; external 'dmath';
9082: { X^Y, X >= 0 }
9083: { -----
9084:   Trigonometric functions
9085:   ----- }
9086: function Pythag(X, Y : Float) : Float; external 'dmath';
9087: { Sqrt(X^2 + Y^2) }
9088: function FixAngle(Theta : Float) : Float; external 'dmath';
9089: { Set Theta in -Pi..Pi }
9090: function Tan(X : Float) : Float; external 'dmath';
9091: { Tangent }
9092: function ArcSin(X : Float) : Float; external 'dmath';
9093: { Arc sinus }
9094: function ArcCos(X : Float) : Float; external 'dmath';
9095: { Arc cosinus }
9096: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9097: { Angle (Ox, OM) with M(X,Y) }
9098: { -----
9099:   Hyperbolic functions
9100:   ----- }
9101: function Sinh(X : Float) : Float; external 'dmath';
9102: { Hyperbolic sine }
9103: function Cosh(X : Float) : Float; external 'dmath';
9104: { Hyperbolic cosine }
9105: function Tanh(X : Float) : Float; external 'dmath';
9106: { Hyperbolic tangent }
9107: function ArcSinh(X : Float) : Float; external 'dmath';
9108: { Inverse hyperbolic sine }
9109: function ArcCosh(X : Float) : Float; external 'dmath';
9110: { Inverse hyperbolic cosine }
9111: function ArcTanh(X : Float) : Float; external 'dmath';
9112: { Inverse hyperbolic tangent }
9113: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9114: { Sinh & Cosh }
9115: { -----
9116:   Gamma function and related functions
9117:   ----- }
9118: function Fact(N : Integer) : Float; external 'dmath';
9119: { Factorial }
9120: function SgnGamma(X : Float) : Integer; external 'dmath';
9121: { Sign of Gamma function }
9122: function Gamma(X : Float) : Float; external 'dmath';
9123: { Gamma function }
9124: function LnGamma(X : Float) : Float; external 'dmath';
9125: { Logarithm of Gamma function }
9126: function Stirling(X : Float) : Float; external 'dmath';
9127: { Stirling's formula for the Gamma function }
9128: function StirLog(X : Float) : Float; external 'dmath';
9129: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9130: function DiGamma(X : Float) : Float; external 'dmath';
9131: { Digamma function }
9132: function TriGamma(X : Float) : Float; external 'dmath';
9133: { Trigamma function }
9134: function IGamma(A, X : Float) : Float; external 'dmath';
9135: { Incomplete Gamma function }
9136: function JGamma(A, X : Float) : Float; external 'dmath';
9137: { Complement of incomplete Gamma function }
9138: function InvGamma(A, P : Float) : Float; external 'dmath';
9139: { Inverse of incomplete Gamma function }
9140: function Erf(X : Float) : Float; external 'dmath';
9141: { Error function }
9142: function Erfc(X : Float) : Float; external 'dmath';
9143: { Complement of error function }
9144: { -----
9145:   Beta function and related functions
9146:   ----- }
9147: function Beta(X, Y : Float) : Float; external 'dmath';
9148: { Beta function }
9149: function IBeta(A, B, X : Float) : Float; external 'dmath';
9150: { Incomplete Beta function }
9151: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9152: { Inverse of incomplete Beta function }
9153: { -----
9154:   Lambert's function
9155:   ----- }
9156: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9157: { -----
9158:   Binomial distribution
9159:   ----- }
9160: function Binomial(N, K : Integer) : Float; external 'dmath';
9161: { Binomial coefficient C(N,K) }
9162: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9163: { Probability of binomial distribution }
9164: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9165: { Cumulative probability for binomial distrib. }
9166: { -----
9167:   Poisson distribution
9168:   ----- }
9169: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';

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9170: { Probability of Poisson distribution }
9171: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9172: { Cumulative probability for Poisson distrib. }
9173: { -----
9174:   Exponential distribution
9175:   ----- }
9176: function DExpo(A, X : Float) : Float; external 'dmath';
9177: { Density of exponential distribution with parameter A }
9178: function FExpo(A, X : Float) : Float; external 'dmath';
9179: { Cumulative probability function for exponential dist. with parameter A }
9180: { -----
9181:   Standard normal distribution
9182:   ----- }
9183: function DNorm(X : Float) : Float; external 'dmath';
9184: { Density of standard normal distribution }
9185: function FNorm(X : Float) : Float; external 'dmath';
9186: { Cumulative probability for standard normal distrib. }
9187: function PNorm(X : Float) : Float; external 'dmath';
9188: { Prob(|U| > X) for standard normal distrib. }
9189: function InvNorm(P : Float) : Float; external 'dmath';
9190: { Inverse of standard normal distribution }
9191: { -----
9192:   Student's distribution
9193:   ----- }
9194: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9195: { Density of Student distribution with Nu d.o.f. }
9196: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9197: { Cumulative probability for Student distrib. with Nu d.o.f. }
9198: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9199: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9200: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9201: { Inverse of Student's t-distribution function }
9202: { -----
9203:   Khi-2 distribution
9204:   ----- }
9205: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9206: { Density of Khi-2 distribution with Nu d.o.f. }
9207: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9208: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9209: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9210: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9211: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9212: { Inverse of Khi-2 distribution function }
9213: { -----
9214:   Fisher-Snedecor distribution
9215:   ----- }
9216: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9217: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9218: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9219: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9220: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9221: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9222: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9223: { Inverse of Snedecor's F-distribution function }
9224: { -----
9225:   Beta distribution
9226:   ----- }
9227: function DBeta(A, B, X : Float) : Float; external 'dmath';
9228: { Density of Beta distribution with parameters A and B }
9229: function FBeta(A, B, X : Float) : Float; external 'dmath';
9230: { Cumulative probability for Beta distrib. with param. A and B }
9231: { -----
9232:   Gamma distribution
9233:   ----- }
9234: function DGamma(A, B, X : Float) : Float; external 'dmath';
9235: { Density of Gamma distribution with parameters A and B }
9236: function FGamma(A, B, X : Float) : Float; external 'dmath';
9237: { Cumulative probability for Gamma distrib. with param. A and B }
9238: { -----
9239:   Expression evaluation
9240:   ----- }
9241: function InitEval : Integer; external 'dmath';
9242: { Initializes built-in functions and returns their number }
9243: function Eval(ExpressionString : String) : Float; external 'dmath';
9244: { Evaluates an expression at run-time }
9245: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9246: { Assigns a value to a variable }
9247: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9248: { Adds a function to the parser }
9249: { -----
9250:   Matrices and linear equations
9251:   ----- }
9252: procedure GaussJordan(A : TMatrix;
9253:                         Lb, Ubl, Ub2 : Integer;
9254:                         var Det : Float); external 'dmath';
9255: { Transforms a matrix according to the Gauss-Jordan method }
9256: procedure LinEq(A : TMatrix;
9257:                     B : TVector;
9258:                     Lb, Ub : Integer);

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9259:         var Det : Float); external 'dmath';
9260: { Solves a linear system according to the Gauss-Jordan method }
9261: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9262: { Cholesky factorization of a positive definite symmetric matrix }
9263: procedure LU_Decom(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9264: { LU decomposition }
9265: procedure LU_Solve(A : TMatrix;
9266:                      B : TVector;
9267:                      Lb, Ub : Integer;
9268:                      X : TVector); external 'dmath';
9269: { Solution of linear system from LU decomposition }
9270: procedure QR_Decom(A : TMatrix;
9271:                      Lb, Ub1, Ub2 : Integer;
9272:                      R : TMatrix); external 'dmath';
9273: { QR decomposition }
9274: procedure QR_Solve(Q, R : TMatrix;
9275:                      B : TVector;
9276:                      Lb, Ub1, Ub2 : Integer;
9277:                      X : TVector); external 'dmath';
9278: { Solution of linear system from QR decomposition }
9279: procedure SV_Decom(A : TMatrix;
9280:                      Lb, Ub1, Ub2 : Integer;
9281:                      S : TVector;
9282:                      V : TMatrix); external 'dmath';
9283: { Singular value decomposition }
9284: procedure SV_SetZero(S : TVector;
9285:                        Lb, Ub : Integer;
9286:                        Tol : Float); external 'dmath';
9287: { Set lowest singular values to zero }
9288: procedure SV_Solve(U : TMatrix;
9289:                      S : TVector;
9290:                      V : TMatrix;
9291:                      B : TVector;
9292:                      Lb, Ub1, Ub2 : Integer;
9293:                      X : TVector); external 'dmath';
9294: { Solution of linear system from SVD }
9295: procedure SV_Approx(U : TMatrix;
9296:                      S : TVector;
9297:                      V : TMatrix;
9298:                      Lb, Ub1, Ub2 : Integer;
9299:                      A : TMatrix); external 'dmath';
9300: { Matrix approximation from SVD }
9301: procedure EigenVals(A : TMatrix;
9302:                        Lb, Ub : Integer;
9303:                        Lambda : TCompVector); external 'dmath';
9304: { Eigenvalues of a general square matrix }
9305: procedure EigenVect(A : TMatrix;
9306:                        Lb, Ub : Integer;
9307:                        Lambda : TCompVector;
9308:                        V : TMatrix); external 'dmath';
9309: { Eigenvalues and eigenvectors of a general square matrix }
9310: procedure EigenSym(A : TMatrix;
9311:                        Lb, Ub : Integer;
9312:                        Lambda : TVector;
9313:                        V : TMatrix); external 'dmath';
9314: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9315: procedure Jacobi(A : TMatrix;
9316:                      Lb, Ub, MaxIter : Integer;
9317:                      Tol : Float;
9318:                      Lambda : TVector;
9319:                      V : TMatrix); external 'dmath';
9320: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9321: { -----
9322: Optimization
9323: ----- }
9324: procedure MinBrack(Func : TFunc;
9325:                       var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9326: { Brackets a minimum of a function }
9327: procedure GoldSearch(Func : TFunc;
9328:                        A, B : Float;
9329:                        MaxIter : Integer;
9330:                        Tol : Float;
9331:                        var Xmin, Ymin : Float); external 'dmath';
9332: { Minimization of a function of one variable (golden search) }
9333: procedure LinMin(Func : TFuncNVar;
9334:                      X, DeltaX : TVector;
9335:                      Lb, Ub : Integer;
9336:                      var R : Float;
9337:                      MaxIter : Integer;
9338:                      Tol : Float;
9339:                      var F_min : Float); external 'dmath';
9340: { Minimization of a function of several variables along a line }
9341: procedure Newton(Func : TFuncNVar;
9342:                      HessGrad : THessGrad;
9343:                      X : TVector;
9344:                      Lb, Ub : Integer;
9345:                      MaxIter : Integer;
9346:                      Tol : Float;
9347:                      var F_min : Float;

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9348:           G      : TVector;
9349:           H_inv : TMatrix;
9350:           var Det : Float); external 'dmath';
9351: { Minimization of a function of several variables (Newton's method) }
9352: procedure SaveNewton(FileName : string); external 'dmath';
9353: { Save Newton iterations in a file }
9354: procedure Marquardt(Func      : TFuncNVar;
9355:                       HessGrad : THessGrad;
9356:                       X       : TVector;
9357:                       Lb, Ub   : Integer;
9358:                       MaxIter : Integer;
9359:                       Tol     : Float;
9360:           var F_min : Float;
9361:           G       : TVector;
9362:           H_inv  : TMatrix;
9363:           var Det : Float); external 'dmath';
9364: { Minimization of a function of several variables (Marquardt's method) }
9365: procedure SaveMarquardt(FileName : string); external 'dmath';
9366: { Save Marquardt iterations in a file }
9367: procedure BFGS(Func      : TFuncNVar;
9368:                     Gradient : TGradient;
9369:                     X       : TVector;
9370:                     Lb, Ub   : Integer;
9371:                     MaxIter : Integer;
9372:                     Tol     : Float;
9373:           var F_min : Float;
9374:           G       : TVector;
9375:           H_inv  : TMatrix); external 'dmath';
9376: { Minimization of a function of several variables (BFGS method) }
9377: procedure SaveBFGS(FileName : string); external 'dmath';
9378: { Save BFGS iterations in a file }
9379: procedure Simplex(Func      : TFuncNVar;
9380:                       X       : TVector;
9381:                       Lb, Ub   : Integer;
9382:                       MaxIter : Integer;
9383:                       Tol     : Float;
9384:           var F_min : Float); external 'dmath';
9385: { Minimization of a function of several variables (Simplex) }
9386: procedure SaveSimplex(FileName : string); external 'dmath';
9387: { Save Simplex iterations in a file }
9388: { -----
9389:   Nonlinear equations
9390: ----- }
9391: procedure RootBrack(Func      : TFunc;
9392:                         var X, Y, FX, FY : Float); external 'dmath';
9393: { Brackets a root of function Func between X and Y }
9394: procedure Bisect(Func      : TFunc;
9395:                      var X, Y : Float;
9396:                      MaxIter : Integer;
9397:                      Tol     : Float;
9398:           var F : Float); external 'dmath';
9399: { Bisection method }
9400: procedure Secant(Func      : TFunc;
9401:                      var X, Y : Float;
9402:                      MaxIter : Integer;
9403:                      Tol     : Float;
9404:           var F : Float); external 'dmath';
9405: { Secant method }
9406: procedure NewtEq(Func, Deriv : TFunc;
9407:                      var X      : Float;
9408:                      MaxIter : Integer;
9409:                      Tol     : Float;
9410:           var F : Float); external 'dmath';
9411: { Newton-Raphson method for a single nonlinear equation }
9412: procedure NewtEqs(Equations : TEquations;
9413:                      Jacobian : TJacobian;
9414:                      X, F     : TVector;
9415:                      Lb, Ub   : Integer;
9416:                      MaxIter : Integer;
9417:                      Tol     : Float); external 'dmath';
9418: { Newton-Raphson method for a system of nonlinear equations }
9419: procedure Broyden(Equations : TEquations;
9420:                      X, F     : TVector;
9421:                      Lb, Ub   : Integer;
9422:                      MaxIter : Integer;
9423:                      Tol     : Float); external 'dmath';
9424: { Broyden's method for a system of nonlinear equations }
9425: { -----
9426:   Polynomials and rational fractions
9427: ----- }
9428: function Poly(X      : Float;
9429:                  Coef   : TVector;
9430:                  Deg    : Integer) : Float; external 'dmath';
9431: { Evaluates a polynomial }
9432: function RFrac(X      : Float;
9433:                  Coef   : TVector;
9434:                  Deg1, Deg2 : Integer) : Float; external 'dmath';
9435: { Evaluates a rational fraction }
9436: function RootPoli(A, B : Float;

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9437:           var X : Float) : Integer; external 'dmath';
9438: { Solves the linear equation A + B * X = 0 }
9439: function RootPol2(Coef : TVector;
9440:                      Z : TCompVector) : Integer; external 'dmath';
9441: { Solves a quadratic equation }
9442: function RootPol3(Coef : TVector;
9443:                      Z : TCompVector) : Integer; external 'dmath';
9444: { Solves a cubic equation }
9445: function RootPol4(Coef : TVector;
9446:                      Z : TCompVector) : Integer; external 'dmath';
9447: { Solves a quartic equation }
9448: function RootPol(Coef : TVector;
9449:                      Deg : Integer;
9450:                      Z : TCompVector) : Integer; external 'dmath';
9451: { Solves a polynomial equation }
9452: function SetRealRoots(Deg : Integer;
9453:                         Z : TCompVector;
9454:                         Tol : Float) : Integer; external 'dmath';
9455: { Set the imaginary part of a root to zero }
9456: procedure SortRoots(Deg : Integer;
9457:                         Z : TCompVector); external 'dmath';
9458: { Sorts the roots of a polynomial }
9459: { -----
9460:   Numerical integration and differential equations
9461:   -----
9462: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9463: { Integration by trapezoidal rule }
9464: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9465: { Integral from A to B }
9466: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9467: { Integral from 0 to B }
9468: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9469: { Convolution product at time T }
9470: procedure ConvTrap(Func1, Func2 : TFunc; T, Y : TVector; N : Integer); external 'dmath';
9471: { Convolution by trapezoidal rule }
9472: procedure RKF45(F : TDiffEqs;
9473:                     Neqn : Integer;
9474:                     Y, Yp : TVector;
9475:                     var T : Float;
9476:                     Tout, RelErr, AbsErr : Float;
9477:                     var Flag : Integer); external 'dmath';
9478: { Integration of a system of differential equations }
9479: { -----
9480:   Fast Fourier Transform
9481:   -----
9482: procedure FFT(NumSamples : Integer;
9483:                 InArray, OutArray : TCompVector); external 'dmath';
9484: { Fast Fourier Transform }
9485: procedure IFFT(NumSamples : Integer;
9486:                   InArray, OutArray : TCompVector); external 'dmath';
9487: { Inverse Fast Fourier Transform }
9488: procedure FFT_Integer(NumSamples : Integer;
9489:                         RealIn, ImagIn : TIntVector;
9490:                         OutArray : TCompVector); external 'dmath';
9491: { Fast Fourier Transform for integer data }
9492: procedure FFT_Integer_Cleanup; external 'dmath';
9493: { Clear memory after a call to FFT_Integer }
9494: procedure CalcFrequency(NumSamples,
9495:                           FrequencyIndex : Integer;
9496:                           InArray : TCompVector;
9497:                           var FFT : Complex); external 'dmath';
9498: { Direct computation of Fourier transform }
9499: { -----
9500:   Random numbers
9501:   -----
9502: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9503: { Select generator }
9504: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9505: { Initialize generator }
9506: function IRanGen : RNG_IntType; external 'dmath';
9507: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9508: function IRanGen31 : RNG_IntType; external 'dmath';
9509: { 31-bit random integer in [0 .. 2^31 - 1] }
9510: function RanGen1 : Float; external 'dmath';
9511: { 32-bit random real in [0,1] }
9512: function RanGen2 : Float; external 'dmath';
9513: { 32-bit random real in [0,1] }
9514: function RanGen3 : Float; external 'dmath';
9515: { 32-bit random real in (0,1) }
9516: function RanGen53 : Float; external 'dmath';
9517: { 53-bit random real in [0,1] }
9518: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9519: { Initializes the 'Multiply with carry' random number generator }
9520: function IRanMWC : RNG_IntType; external 'dmath';
9521: { Returns a 32 bit random number in [-2^31 .. 2^31-1] }
9522: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9523: { Initializes Mersenne Twister generator with a seed }
9524: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9525:                           KeyLength : Word); external 'dmath';

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9526: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9527: function IRanMT : RNG_IntType; external 'dmath';
9528: { Random integer from MT generator }
9529: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9530: { Initializes the UVAG generator with a string }
9531: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9532: { Initializes the UVAG generator with an integer }
9533: function IRanUVAG : RNG_IntType; external 'dmath';
9534: { Random integer from UVAG generator }
9535: function RanGaussStd : Float; external 'dmath';
9536: { Random number from standard normal distribution }
9537: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9538: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9539: procedure RanMult(M : TVector; L : TMatrix;
9540:           Lb, Ub : Integer;
9541:           X : TVector); external 'dmath';
9542: { Random vector from multinormal distribution (correlated) }
9543: procedure RanMultIndep(M, S : TVector;
9544:           Lb, Ub : Integer;
9545:           X : TVector); external 'dmath';
9546: { Random vector from multinormal distribution (uncorrelated) }
9547: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9548: { Initializes Metropolis-Hastings parameters }
9549: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9550: { Returns Metropolis-Hastings parameters }
9551: procedure Hastings(Func : TFuncNVar;
9552:           T : Float;
9553:           X : TVector;
9554:           V : TMatrix;
9555:           Lb, Ub : Integer;
9556:           Xmat : TMatrix;
9557:           X_min : TVector;
9558:           var F_min : Float); external 'dmath';
9559: { Simulation of a probability density function by Metropolis-Hastings }
9560: procedure InitsAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9561: { Initializes Simulated Annealing parameters }
9562: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9563: { Initializes log file }
9564: procedure SimAnn(Func : TFuncNVar;
9565:           X, Xmin, Xmax : TVector;
9566:           Lb, Ub : Integer;
9567:           var F_min : Float); external 'dmath';
9568: { Minimization of a function of several var. by simulated annealing }
9569: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9570: { Initializes Genetic Algorithm parameters }
9571: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9572: { Initializes log file }
9573: procedure GenAlg(Func : TFuncNVar;
9574:           X, Xmin, Xmax : TVector;
9575:           Lb, Ub : Integer;
9576:           var F_min : Float); external 'dmath';
9577: { Minimization of a function of several var. by genetic algorithm }
9578: { -----
9579:   Statistics
9580: ----- }
9581: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9582: { Mean of sample X }
9583: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9584: { Minimum of sample X }
9585: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9586: { Maximum of sample X }
9587: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9588: { Median of sample X }
9589: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9590: { Standard deviation estimated from sample X }
9591: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9592: { Standard deviation of population }
9593: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9594: { Correlation coefficient }
9595: function Skewness(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9596: { Skewness of sample X }
9597: function Kurtosis(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9598: { Kurtosis of sample X }
9599: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9600: { Quick sort (ascending order) }
9601: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9602: { Quick sort (descending order) }
9603: procedure Interval(Xl, X2 : Float;
9604:           MinDiv, MaxDiv : Integer;
9605:           var Min, Max, Step : Float); external 'dmath';
9606: { Determines an interval for a set of values }
9607: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9608:           var XMin, XMax, XStep : Float); external 'dmath';
9609: { Finds an appropriate scale for plotting the data in x[Lb..Ub] }
9610: procedure StudIndep(N1, N2 : Integer;
9611:           M1, M2, S1, S2 : Float;
9612:           var T : Float;
9613:           var Dof : Integer); external 'dmath';
9614: { Student t-test for independent samples }

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9615: procedure StudPaired(X, Y      : TVector;
9616:                      Lb, Ub   : Integer;
9617:                      var T     : Float;
9618:                      var DoF  : Integer); external 'dmath';
9619: { Student t-test for paired samples }
9620: procedure AnOVal(Ns           : Integer;
9621:                      N        : TIntVector;
9622:                      M, S    : TVector;
9623:                      var V_f, V_r, F : Float;
9624:                      var DoF_f, DoF_r : Integer); external 'dmath';
9625: { One-way analysis of variance }
9626: procedure AnOva2(NA, NB, Nobs : Integer;
9627:                      M, S    : TMatrix;
9628:                      V, F    : TVector;
9629:                      DoF     : TIntVector); external 'dmath';
9630: { Two-way analysis of variance }
9631: procedure Snedecor(N1, N2    : Integer;
9632:                      S1, S2  : Float;
9633:                      var F    : Float;
9634:                      var DoF1, DoF2 : Integer); external 'dmath';
9635: { Snedecor's F-test (comparison of two variances) }
9636: procedure Bartlett(Ns       : Integer;
9637:                      N        : TIntVector;
9638:                      S        : TVector;
9639:                      var Khi2 : Float;
9640:                      var DoF  : Integer); external 'dmath';
9641: { Bartlett's test (comparison of several variances) }
9642: procedure Mann_Whitney(N1, N2 : Integer;
9643:                      X1, X2  : TVector;
9644:                      var U, Eps : Float); external 'dmath';
9645: { Mann-Whitney test }
9646: procedure Wilcoxon(X, Y      : TVector;
9647:                      Lb, Ub   : Integer;
9648:                      var Ndiff : Integer;
9649:                      var T, Eps : Float); external 'dmath';
9650: { Wilcoxon test }
9651: procedure Kruskal_Wallis(Ns    : Integer;
9652:                           N        : TIntVector;
9653:                           X        : TMatrix;
9654:                           var H    : Float;
9655:                           var DoF  : Integer); external 'dmath';
9656: { Kruskal-Wallis test }
9657: procedure Khi2_Conform(N_cls  : Integer;
9658:                           N_estim : Integer;
9659:                           Obs     : TIntVector;
9660:                           Calc    : TVector;
9661:                           var Khi2 : Float;
9662:                           var DoF  : Integer); external 'dmath';
9663: { Khi-2 test for conformity }
9664: procedure Khi2_Indep(N_lin  : Integer;
9665:                           N_col   : Integer;
9666:                           Obs     : TIntMatrix;
9667:                           var Khi2 : Float;
9668:                           var DoF  : Integer); external 'dmath';
9669: { Khi-2 test for independence }
9670: procedure Woolf_Conform(N_cls : Integer;
9671:                           N_estim : Integer;
9672:                           Obs     : TIntVector;
9673:                           Calc    : TVector;
9674:                           var G    : Float;
9675:                           var DoF  : Integer); external 'dmath';
9676: { Woolf's test for conformity }
9677: procedure Woolf_Indep(N_lin : Integer;
9678:                           N_col   : Integer;
9679:                           Obs     : TIntMatrix;
9680:                           var G    : Float;
9681:                           var DoF  : Integer); external 'dmath';
9682: { Woolf's test for independence }
9683: procedure DimStatClassVector(var C : TStatClassVector;
9684:                                 Ub    : Integer); external 'dmath';
9685: { Allocates an array of statistical classes: C[0..Ub] }
9686: procedure Distrib(X      : TVector;
9687:                      Lb, Ub : Integer;
9688:                      A, B, H : Float;
9689:                      C      : TStatClassVector); external 'dmath';
9690: { Distributes an array X[Lb..Ub] into statistical classes }
9691: { -----
9692:  Linear / polynomial regression
9693:  ----- }
9694: procedure LinFit(X, Y    : TVector;
9695:                      Lb, Ub : Integer;
9696:                      B      : TVector;
9697:                      V      : TMatrix); external 'dmath';
9698: { Linear regression : Y = B(0) + B(1) * X }
9699: procedure WLinFit(X, Y, S : TVector;
9700:                      Lb, Ub : Integer;
9701:                      B      : TVector;
9702:                      V      : TMatrix); external 'dmath';
9703: { Weighted linear regression : Y = B(0) + B(1) * X }

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9704: procedure SVDLinFit(X, Y : TVector;
9705:                      Lb, Ub : Integer;
9706:                      SVDTol : Float;
9707:                      B : TVector;
9708:                      V : TMatrix); external 'dmath';
9709: { Unweighted linear regression by singular value decomposition }
9710: procedure WSVDLinFit(X, Y, S : TVector;
9711:                        Lb, Ub : Integer;
9712:                        SVDTol : Float;
9713:                        B : TVector;
9714:                        V : TMatrix); external 'dmath';
9715: { Weighted linear regression by singular value decomposition }
9716: procedure MulFit(X : TMatrix;
9717:                      Y : TVector;
9718:                      Lb, Ub, Nvar : Integer;
9719:                      ConsTerm : Boolean;
9720:                      B : TVector;
9721:                      V : TMatrix); external 'dmath';
9722: { Multiple linear regression by Gauss-Jordan method }
9723: procedure WMulFit(X : TMatrix;
9724:                      Y, S : TVector;
9725:                      Lb, Ub, Nvar : Integer;
9726:                      ConsTerm : Boolean;
9727:                      B : TVector;
9728:                      V : TMatrix); external 'dmath';
9729: { Weighted multiple linear regression by Gauss-Jordan method }
9730: procedure SVDFit(X : TMatrix;
9731:                      Y : TVector;
9732:                      Lb, Ub, Nvar : Integer;
9733:                      ConsTerm : Boolean;
9734:                      SVDTol : Float;
9735:                      B : TVector;
9736:                      V : TMatrix); external 'dmath';
9737: { Multiple linear regression by singular value decomposition }
9738: procedure WSVDFit(X : TMatrix;
9739:                      Y, S : TVector;
9740:                      Lb, Ub, Nvar : Integer;
9741:                      ConsTerm : Boolean;
9742:                      SVDTol : Float;
9743:                      B : TVector;
9744:                      V : TMatrix); external 'dmath';
9745: { Weighted multiple linear regression by singular value decomposition }
9746: procedure PolFit(X, Y : TVector;
9747:                      Lb, Ub, Deg : Integer;
9748:                      B : TVector;
9749:                      V : TMatrix); external 'dmath';
9750: { Polynomial regression by Gauss-Jordan method }
9751: procedure WPolFit(X, Y, S : TVector;
9752:                      Lb, Ub, Deg : Integer;
9753:                      B : TVector;
9754:                      V : TMatrix); external 'dmath';
9755: { Weighted polynomial regression by Gauss-Jordan method }
9756: procedure SVDPolFit(X, Y : TVector;
9757:                      Lb, Ub, Deg : Integer;
9758:                      SVDTol : Float;
9759:                      B : TVector;
9760:                      V : TMatrix); external 'dmath';
9761: { Unweighted polynomial regression by singular value decomposition }
9762: procedure WSVDPolFit(X, Y, S : TVector;
9763:                      Lb, Ub, Deg : Integer;
9764:                      SVDTol : Float;
9765:                      B : TVector;
9766:                      V : TMatrix); external 'dmath';
9767: { Weighted polynomial regression by singular value decomposition }
9768: procedure RegTest(Y, Ycalc : TVector;
9769:                      LbY, UbY : Integer;
9770:                      V : TMatrix;
9771:                      LbV, UbV : Integer;
9772:                      var Test : TRegTest); external 'dmath';
9773: { Test of unweighted regression }
9774: procedure WRegTest(Y, Ycalc, S : TVector;
9775:                      LbY, UbY : Integer;
9776:                      V : TMatrix;
9777:                      LbV, UbV : Integer;
9778:                      var Test : TRegTest); external 'dmath';
9779: { Test of weighted regression }
9780: { -----
9781: Nonlinear regression
9782: ----- }
9783: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9784: { Sets the optimization algorithm for nonlinear regression }
9785: function GetOptAlgo : TOptAlgo; external 'dmath';
9786: { Returns the optimization algorithm }
9787: procedure SetMaxParam(N : Byte); external 'dmath';
9788: { Sets the maximum number of regression parameters for nonlinear regression }
9789: function GetMaxParam : Byte; external 'dmath';
9790: { Returns the maximum number of regression parameters for nonlinear regression }
9791: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9792: { Sets the bounds on the I-th regression parameter }

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

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9882:           B      : TVector;
9883:           V      : TMatrix); external 'dmath';
9884: { Unweighted fit of model of increasing exponential }
9885: procedure WIIncExpFit(X, Y, S : TVector;
9886:                           Lb, Ub : Integer;
9887:                           ConsTerm : Boolean;
9888:                           MaxIter : Integer;
9889:                           Tol : Float;
9890:                           B : TVector;
9891:                           V : TMatrix); external 'dmath';
9892: { Weighted fit of increasing exponential }
9893: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9894: { Returns the value of the regression function at point X }
9895: procedure ExpLinFit(X, Y : TVector;
9896:                         Lb, Ub : Integer;
9897:                         MaxIter : Integer;
9898:                         Tol : Float;
9899:                         B : TVector;
9900:                         V : TMatrix); external 'dmath';
9901: { Unweighted fit of the "exponential + linear" model }
9902: procedure WExpLinFit(X, Y, S : TVector;
9903:                         Lb, Ub : Integer;
9904:                         MaxIter : Integer;
9905:                         Tol : Float;
9906:                         B : TVector;
9907:                         V : TMatrix); external 'dmath';
9908: { Weighted fit of the "exponential + linear" model }
9909:
9910: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9911: { Returns the value of the regression function at point X }
9912: procedure MichFit(X, Y : TVector;
9913:                      Lb, Ub : Integer;
9914:                      MaxIter : Integer;
9915:                      Tol : Float;
9916:                      B : TVector;
9917:                      V : TMatrix); external 'dmath';
9918: { Unweighted fit of Michaelis equation }
9919: procedure WMichFit(X, Y, S : TVector;
9920:                      Lb, Ub : Integer;
9921:                      MaxIter : Integer;
9922:                      Tol : Float;
9923:                      B : TVector;
9924:                      V : TMatrix); external 'dmath';
9925: { Weighted fit of Michaelis equation }
9926: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9927: { Returns the value of the Michaelis equation at point X }
9928: procedure MintFit(X, Y : TVector;
9929:                      Lb, Ub : Integer;
9930:                      MintVar : TMintVar;
9931:                      Fit_S0 : Boolean;
9932:                      MaxIter : Integer;
9933:                      Tol : Float;
9934:                      B : TVector;
9935:                      V : TMatrix); external 'dmath';
9936: { Unweighted fit of the integrated Michaelis equation }
9937: procedure WMintFit(X, Y, S : TVector;
9938:                      Lb, Ub : Integer;
9939:                      MintVar : TMintVar;
9940:                      Fit_S0 : Boolean;
9941:                      MaxIter : Integer;
9942:                      Tol : Float;
9943:                      B : TVector;
9944:                      V : TMatrix); external 'dmath';
9945: { Weighted fit of the integrated Michaelis equation }
9946: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9947: { Returns the value of the integrated Michaelis equation at point X }
9948: procedure HillFit(X, Y : TVector;
9949:                      Lb, Ub : Integer;
9950:                      MaxIter : Integer;
9951:                      Tol : Float;
9952:                      B : TVector;
9953:                      V : TMatrix); external 'dmath';
9954: { Unweighted fit of Hill equation }
9955: procedure WHillFit(X, Y, S : TVector;
9956:                      Lb, Ub : Integer;
9957:                      MaxIter : Integer;
9958:                      Tol : Float;
9959:                      B : TVector;
9960:                      V : TMatrix); external 'dmath';
9961: { Weighted fit of Hill equation }
9962: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9963: { Returns the value of the Hill equation at point X }
9964: procedure LogiFit(X, Y : TVector;
9965:                      Lb, Ub : Integer;
9966:                      ConsTerm : Boolean;
9967:                      General : Boolean;
9968:                      MaxIter : Integer;
9969:                      Tol : Float;
9970:                      B : TVector;

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9971:           V      : TMatrix); external 'dmath';
9972: { Unweighted fit of logistic function }
9973: procedure WLogFit(X, Y, S : TVector;
9974:                      Lb, Ub : Integer;
9975:                      ConsTerm : Boolean;
9976:                      General : Boolean;
9977:                      MaxIter : Integer;
9978:                      Tol   : Float;
9979:                      B     : TVector;
9980:                      V     : TMatrix); external 'dmath';
9981: { Weighted fit of logistic function }
9982: function LogFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9983: { Returns the value of the logistic function at point X }
9984: procedure PKFit(X, Y    : TVector;
9985:                      Lb, Ub : Integer;
9986:                      MaxIter : Integer;
9987:                      Tol   : Float;
9988:                      B     : TVector;
9989:                      V     : TMatrix); external 'dmath';
9990: { Unweighted fit of the acid-base titration curve }
9991: procedure WPKFit(X, Y, S : TVector;
9992:                      Lb, Ub : Integer;
9993:                      MaxIter : Integer;
9994:                      Tol   : Float;
9995:                      B     : TVector;
9996:                      V     : TMatrix); external 'dmath';
9997: { Weighted fit of the acid-base titration curve }
9998: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9999: { Returns the value of the acid-base titration function at point X }
10000: procedure PowFit(X, Y    : TVector;
10001:                      Lb, Ub : Integer;
10002:                      MaxIter : Integer;
10003:                      Tol   : Float;
10004:                      B     : TVector;
10005:                      V     : TMatrix); external 'dmath';
10006: { Unweighted fit of power function }
10007: procedure WPowFit(X, Y, S : TVector;
10008:                      Lb, Ub : Integer;
10009:                      MaxIter : Integer;
10010:                     Tol  : Float;
10011:                     B   : TVector;
10012:                     V   : TMatrix); external 'dmath';
10013: { Weighted fit of power function }
10014:
10015: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10016: { Returns the value of the power function at point X }
10017: procedure GammaFit(X, Y    : TVector;
10018:                      Lb, Ub : Integer;
10019:                      MaxIter : Integer;
10020:                      Tol   : Float;
10021:                      B     : TVector;
10022:                      V     : TMatrix); external 'dmath';
10023: { Unweighted fit of gamma distribution function }
10024: procedure WGammaFit(X, Y, S : TVector;
10025:                      Lb, Ub : Integer;
10026:                      MaxIter : Integer;
10027:                      Tol   : Float;
10028:                      B     : TVector;
10029:                      V     : TMatrix); external 'dmath';
10030: { Weighted fit of gamma distribution function }
10031: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10032: { Returns the value of the gamma distribution function at point X }
10033: { -----
10034: Principal component analysis
10035: ----- }
10036: procedure VecMean(X      : TMatrix;
10037:                      Lb, Ub, Nvar : Integer;
10038:                      M      : TVector); external 'dmath';
10039: { Computes the mean vector M from matrix X }
10040: procedure VecSD(X      : TMatrix;
10041:                      Lb, Ub, Nvar : Integer;
10042:                      M, S       : TVector); external 'dmath';
10043: { Computes the vector of standard deviations S from matrix X }
10044: procedure MatVarCov(X      : TMatrix;
10045:                      Lb, Ub, Nvar : Integer;
10046:                      M      : TVector;
10047:                      V      : TMatrix); external 'dmath';
10048: { Computes the variance-covariance matrix V from matrix X }
10049: procedure MatCorrel(V      : TMatrix;
10050:                      Nvar : Integer;
10051:                      R      : TMatrix); external 'dmath';
10052: { Computes the correlation matrix R from the var-cov matrix V }
10053: procedure PCA(R      : TMatrix;
10054:                      Nvar : Integer;
10055:                      Lambda : TVector;
10056:                      C, Rc : TMatrix); external 'dmath';
10057: { Performs a principal component analysis of the correlation matrix R }
10058: procedure ScaleVar(X      : TMatrix;
10059:                      Lb, Ub, Nvar : Integer;

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10060:           M, S      : TVector;
10061:           Z       : TMatrix); external 'dmath';
10062: { Scales a set of variables by subtracting means and dividing by SD's }
10063: procedure PrinFac(Z      : TMatrix;
10064:                      Lb, Ub, Nvar : Integer;
10065:                      C, F       : TMatrix); external 'dmath';
10066: { Computes principal factors }
10067: { -----
10068:   Strings
10069: ----- }
10070: function LTrim(S : String) : String; external 'dmath';
10071: { Removes leading blanks }
10072: function RTrim(S : String) : String; external 'dmath';
10073: { Removes trailing blanks }
10074: function Trim(S : String) : String; external 'dmath';
10075: { Removes leading and trailing blanks }
10076: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10077: { Returns a string made of character C repeated N times }
10078: function RFill(S : String; L : Byte) : String; external 'dmath';
10079: { Completes string S with trailing blanks for a total length L }
10080: function LFill(S : String; L : Byte) : String; external 'dmath';
10081: { Completes string S with leading blanks for a total length L }
10082: function CFill(S : String; L : Byte) : String; external 'dmath';
10083: { Centers string S on a total length L }
10084: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10085: { Replaces in string S all the occurrences of C1 by C2 }
10086: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10087: { Extracts a field from a string }
10088: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10089: { Parses a string into its constitutive fields }
10090: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10091: { Sets the numeric format }
10092: function FloatStr(X : Float) : String; external 'dmath';
10093: { Converts a real to a string according to the numeric format }
10094: function IntStr(N : LongInt) : String; external 'dmath';
10095: { Converts an integer to a string }
10096: function CompStr(Z : Complex) : String; external 'dmath';
10097: { Converts a complex number to a string }
10098: {$IFDEF DELPHI}
10099: function StrDec(S : String) : String; external 'dmath';
10100: { Set decimal separator to the symbol defined in SysUtils }
10101: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10102: { Test if a string represents a number and returns it in X }
10103: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10104: { Reads a floating point number from an Edit control }
10105: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10106: { Writes a floating point number in a text file }
10107: {$ENDIF}
10108: { -----
10109:   BGI / Delphi graphics
10110: ----- }
10111: function InitGraphics
10112: {$IFDEF DELPHI}
10113: (Width, Height : Integer) : Boolean;
10114: {$ELSE}
10115: (Pilot, Mode : Integer; BGIPPath : String) : Boolean; {$ENDIF} external 'dmath';
10116: { Enters graphic mode }
10117: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10118:                      X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10119: { Sets the graphic window }
10120: procedure SetOxScale(Scale          : TScale;
10121:                        OxMin, OxMax, OxStep : Float); external 'dmath';
10122: { Sets the scale on the Ox axis }
10123: procedure SetOyScale(Scale          : TScale;
10124:                        OyMin, OyMax, OyStep : Float); external 'dmath';
10125: { Sets the scale on the Oy axis }
10126: procedure GetOxScale(var Scale     : TScale;
10127:                        var OxMin, OxMax, OxStep : Float); external 'dmath';
10128: { Returns the scale on the Ox axis }
10129: procedure GetOyScale(var Scale     : TScale;
10130:                        var OyMin, OyMax, OyStep : Float); external 'dmath';
10131: { Returns the scale on the Oy axis }
10132: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10133: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10134: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10135: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10136: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10137: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10138: {$IFNDEF DELPHI}
10139: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10140: { Sets the font for the main graph title }
10141: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10142: { Sets the font for the Ox axis (title and labels) }
10143: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10144: { Sets the font for the Oy axis (title and labels) }
10145: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10146: { Sets the font for the legends }
10147: procedure SetClipping(Clip : Boolean); external 'dmath';
10148: { Determines whether drawings are clipped at the current viewport

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10149:   boundaries, according to the value of the Boolean parameter Clip }
10150: {$ENDIF}
10151: procedure PlotOxAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10152: { Plots the horizontal axis }
10153: procedure PlotOyAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10154: { Plots the vertical axis }
10155: procedure PlotGrid{$IFDEF DELPHI}(Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10156: { Plots a grid on the graph }
10157: procedure WriteGraphTitle{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10158: { Writes the title of the graph }
10159: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10160: { Sets the maximum number of curves and re-initializes their parameters }
10161: procedure SetPointParam
10162: {$IFDEF DELPHI}
10163: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10164: {$ELSE}
10165: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10166: { Sets the point parameters for curve # CurvIndex }
10167: procedure SetLineParam
10168: {$IFDEF DELPHI}
10169: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10170: {$ELSE}
10171: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10172: { Sets the line parameters for curve # CurvIndex }
10173: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10174: { Sets the legend for curve # CurvIndex }
10175: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10176: { Sets the step for curve # CurvIndex }
10177: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10178: procedure GetPointParam
10179: {$IFDEF DELPHI}
10180: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10181: {$ELSE}
10182: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10183: { Returns the point parameters for curve # CurvIndex }
10184: procedure GetLineParam
10185: {$IFDEF DELPHI}
10186: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10187: {$ELSE}
10188: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10189: { Returns the line parameters for curve # CurvIndex }
10190: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10191: { Returns the legend for curve # CurvIndex }
10192: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10193: { Returns the step for curve # CurvIndex }
10194: {$IFDEF DELPHI}
10195: procedure PlotPoint(Canvas      : TCanvas;
10196:                         X, Y      : Float; CurvIndex : Integer); external 'dmath';
10197: {$ELSE}
10198: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10199: {$ENDIF}
10200: { Plots a point on the screen }
10201: procedure PlotCurve{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10202:                               X, Y      : TVector;
10203:                               Lb, Ub, CurvIndex : Integer); external 'dmath';
10204: { Plots a curve }
10205: procedure PlotCurveWithErrorBars{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10206:                                         X, Y, S      : TVector;
10207:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10208: { Plots a curve with error bars }
10209: procedure PlotFunc{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10210:                               Func      : TFunc;
10211:                               Xmin, Xmax : Float;
10212:                               {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10213:                               CurvIndex : Integer); external 'dmath';
10214: { Plots a function }
10215: procedure WriteLegend{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10216:                               NCurv    : Integer;
10217:                               ShowPoints, ShowLines : Boolean); external 'dmath';
10218: { Writes the legends for the plotted curves }
10219: procedure ConRec{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10220:                               Nx, Ny, Nc : Integer;
10221:                               X, Y, Z   : TVector;
10222:                               F          : TMatrix); external 'dmath';
10223: { Contour plot }
10224: function Xpixel(X : Float):Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10225: function Ypixel(Y : Float):Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10226: function Xuser(X : Integer):Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10227: function Yuser(Y : Integer):Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10228: {$IFNDEF DELPHI}
10229: procedure LeaveGraphics; external 'dmath';
10230: { Quits graphic mode }
10231: {$ENDIF}
10232: { -----
10233:  LaTeX graphics
10234: ----- }
10235: function TeX_InitGraphics(FileName      : String; PgWidth, PgHeight : Integer;
10236:                             Header        : Boolean); Boolean; external 'dmath';
10237: { Initializes the LaTeX file }

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10238: procedure TeX_SetWindow(X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10239: { Sets the graphic window }
10240: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10241: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10242: { Sets the scale on the Ox axis }
10243: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10244: { Sets the scale on the Oy axis }
10245: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10246: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10247: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10248: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10249: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10250: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10251: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph }
10252: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10253: { Sets the maximum number of curves and re-initializes their parameters }
10254: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10255: { Sets the point parameters for curve # CurvIndex }
10256: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10257:                               Width : Float; Smooth : Boolean); external 'dmath';
10258: { Sets the line parameters for curve # CurvIndex }
10259: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10260: { Sets the legend for curve # CurvIndex }
10261: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10262: { Sets the step for curve # CurvIndex }
10263: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10264: { Plots a curve }
10265: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10266:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10267: { Plots a curve with error bars }
10268: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10269:                           Npt : Integer; CurvIndex : Integer); external 'dmath';
10270: { Plots a function }
10271: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10272: { Writes the legends for the plotted curves }
10273: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10274: { Contour plot }
10275: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10276: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10277:
10278: //*****unit uPSI_SynPdf;
10279: Function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10280: Function _DateToString( ADate : TDateTime ) : TPdfDate
10281: Function _PpdfDateToDateTime( const AText : TPdfDate ) : TDateTime
10282: Function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10283: Function PdfRect1( const Box : TPdfBox ) : TPdfRect;
10284: Function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10285: //Function _GetCharCount( Text : PAnsiChar ) : integer
10286: //Procedure L2R( W : PWideChar; L : integer )
10287: Function PdfCoord( MM : single ) : integer
10288: Function CurrentPrinterPageSize : TPDFPaperSize
10289: Function CurrentPrinterRes : TPoint
10290: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10291: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10292: Procedure GDICommentLink( MetaHandle: HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10293: Const ('Uspl0','String 'uspl0.dll
10294:   AddTypeS('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10295:             'fcharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10296:   AddTypeS('TScriptState_set', 'set of TScriptState_enum
10297: //*****
10298:
10299: procedure SIRegister_PMrand(CL: TPSpascalCompiler); //ParkMiller
10300: begin
10301:   Procedure PMrandomize( I : word)
10302:   Function PMrandom : longint
10303:   Function Rrand : extended
10304:   Function Irand( N : word ) : word
10305:   Function Brand( P : extended ) : boolean
10306:   Function Nrand : extended
10307: end;
10308:
10309: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSpascalCompiler);
10310: begin
10311:   Function Endian( x : LongWord ) : LongWord
10312:   Function Endian64( x : Int64 ) : Int64
10313:   Function spRol( x : LongWord; y : Byte ) : LongWord
10314:   Function spRor( x : LongWord; y : Byte ) : LongWord
10315:   Function Ror64( x : Int64; y : Byte ) : Int64
10316: end;
10317:
10318: procedure SIRegister_MapReader(CL: TPSpascalCompiler);
10319: begin
10320:   Procedure ClearModules
10321:   Procedure ReadMapFile( Fname : string )
10322:   Function AddressInfo( Address : dword ) : string
10323: end;
10324:
10325: procedure SIRegister_LibTar(CL: TPSpascalCompiler);
10326: begin

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10327: TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOw'
10328: +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWri'
10329: +'teByOther, tpExecuteByOther )'
10330: TTarPermissions', 'set of TTarPermission
10331: TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10332: +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader';
10333: TTarMode', '( tmSetUid, tmSetGid, tmSaveText )'
10334: TTarModes', 'set of TTarMode
10335: TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDa'
10336: +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10337: +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING;'
10338: +' ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10339: +GER; MinorDevNo : INTEGER; FilePos : INT64; end
10340: SIRegister_TTarArchive(CL);
10341: SIRegister_TTarWriter(CL);
10342: Function PermissionString( Permissions : TTarPermissions ) : STRING
10343: Function ConvertFilename( Filename : STRING ) : STRING
10344: Function FileTimeGMT( FileName : STRING ) : TDateTime;
10345: Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10346: Procedure ClearDirRec( var DirRec : TTarDirRec )
10347: end;
10348:
10349:
10350: //*****unit uPSI_TlHelp32;
10351: procedure SIRegister_TlHelp32(CL: TPSPascalCompiler);
10352: begin
10353: Const('MAX_MODULE_NAME32','LongInt'( 255 );
10354: Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD ) : THandle
10355: Const('TH32CS_SNAPHEAPLIST','LongWord( $00000001 );
10356: Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002 );
10357: Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004 );
10358: Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008 );
10359: Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000 );
10360: tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10361: AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10362: AddTypeS('THeapList32', 'tagHEAPLIST32
10363: Const('HF32_DEFAULT','LongInt'( 1 );
10364: Const('HF32_SHARED','LongInt'( 2 );
10365: Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10366: Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10367: AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAdr'
10368: +'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10369: +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10370: AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10371: AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10372: Const('LF32_FIXED','LongWord').SetUInt( $00000001 );
10373: Const('LF32_FREE','LongWord').SetUInt( $00000002 );
10374: Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004 );
10375: Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD ) : BOOL
10376: Function Heap32Next( var lphe : THeapEntry32 ) : BOOL
10377: DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10378: AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10379: +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10380: +'aPri : Longint; dwFlags : DWORD; end
10381: AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10382: AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10383: Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10384: Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10385: end;
10386: Const('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10387: Const('EW_REBOOTSYSTEM','LongWord( $0043 );
10388: Const('EW_EXITANDEXECAPP','LongWord( $0044 );
10389: Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ) );
10390: Const('EWX_LOGOFF','LongInt'( 0 );
10391: Const('EWX_SHUTDOWN','LongInt'( 1 );
10392: Const('EWX_REBOOT','LongInt'( 2 );
10393: Const('EWX_FORCE','LongInt'( 4 );
10394: Const('EWX_POWEROFF','LongInt'( 8 );
10395: Const('EWX_FORCEIFHUNG','LongWord').SetUInt( $10 );
10396: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10397: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10398: Function GET_MOUSEORKEY_LPARAM( const lParam : LongInt ) : Word
10399: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10400: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10401: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10402: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10403: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10404: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10405: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10406: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10407: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
10408: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
10409: Function GetDesktopWindow : HWND
10410: Function GetParent( hWnd : HWND ) : HWND
10411: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND
10412: Function GetTopWindow( hWnd : HWND ) : HWND
10413: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND
10414: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND
10415: //Delphi DFM

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10416: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10417: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string) : integer
10418: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10419: function GetHighlightersFilter(AHighlighters: TStringList): string;
10420: function GetHighlighterFromFileExt(AHighlighters: TStringList; Extension: string):TSynCustomHighlighter;
10421: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL
10422: Function OpenIcon( hWnd : HWND ) : BOOL
10423: Function CloseWindow( hWnd : HWND ) : BOOL
10424: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL
10425: Function SetWindowPos(hWnd:HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UINT) : BOOL
10426: Function IsWindowVisible( hWnd : HWND ) : BOOL
10427: Function IsIconic( hWnd : HWND ) : BOOL
10428: Function AnyPopup : BOOL
10429: Function BringWindowToTop( hWnd : HWND ) : BOOL
10430: Function IsZoomed( hWnd : HWND ) : BOOL
10431: Function IsWindow( hWnd : HWND ) : BOOL
10432: Function IsMenu( hMenu : HMENU ) : BOOL
10433: Function IsChild( hWndParent, hWnd : HWND ) : BOOL
10434: Function DestroyWindow( hWnd : HWND ) : BOOL
10435: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL
10436: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL
10437: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL
10438: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL
10439: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10440: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10441: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10442:
10443: procedure SIRегистre_IDECmdLine(CL: TPPascalCompiler);
10444: begin
10445:   const ('ShowSetupDialogOptLong','String '--setup
10446: PrimaryConfPathOptLong','String '--primary-config-path=
10447: PrimaryConfPathOptShort','String '--pcp=
10448: SecondaryConfPathOptLong','String '--secondary-config-path=
10449: SecondaryConfPathOptShort','String '--scp=
10450: NoSplashScreenOptLong','String '--no-splash-screen
10451: NoSplashScreenOptShort','String '--nsc
10452: StartedByStartLazarusOpt','String '--started-by-startlazarus
10453: SkipLastProjectOpt','String '--skip-last-project
10454: DebugLogOpt','String '--debug-log=
10455: DebugLogOptEnable','String '--debug-enable=
10456: LanguageOpt','String '--language=
10457: LazarusDirOpt','String '--lazarusdir=
10458: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10459: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean) : string
10460: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings) : string
10461: Function IsHelpRequested : Boolean
10462: Function IsVersionRequested : boolean
10463: Function GetLanguageSpecified : string
10464: Function ParamIsOption( ParamIndex : integer; const Option : string) : boolean
10465: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10466: Procedure ParseNoGuiCmplineParams
10467: Function ExtractCmdLineFilenames : TStrings
10468: end;
10469:
10470:
10471: procedure SIRегистre_LazFileUtils(CL: TPPascalCompiler);
10472: begin
10473:   Function CompareFilenames( const Filenam1, Filenam2 : string) : integer
10474:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string) : integer
10475:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean) : integer;
10476:   Function CompareFileExt1( const Filenam, Ext : string) : integer;
10477:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string) : integer
10478:   Function CompareFilenames(Filenam1:PChar;Len1:integer, Filenam2:PChar;Len2:integer):integer
10479:   Function CompareFilenamesP( Filenam1, Filenam2 : PChar; IgnoreCase : boolean) : integer
10480:   Function DirPathExists( DirectoryName : string) : boolean
10481:   Function DirectoryIsWritable( const DirectoryName : string) : boolean
10482:   Function ExtractFileNameOnly( const AFilename : string) : string
10483:   Function FilenamIsAbsolute( const Thefilename : string) : boolean
10484:   Function FilenamIsWinAbsolute( const Thefilename : string) : boolean
10485:   Function FilenamIsUnixAbsolute( const Thefilename : string) : boolean
10486:   Function ForceDirectory( DirectoryName : string) : boolean
10487:   Procedure CheckIfFileIsExecutable( const AFilename : string)
10488:   Procedure CheckIfFileIsSymlink( const AFilename : string)
10489:   Function FileIsText( const AFilename : string) : boolean
10490:   Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10491:   Function FilenamIsTrimmed( const Thefilename : string) : boolean
10492:   Function FilenamIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10493:   Function TrimFilename( const AFilename : string) : string
10494:   Function ResolveDots( const AFilename : string) : string
10495:   Procedure ForcePathDelims( var FileName : string)
10496:   Function GetForcedPathDelims( const FileName : string) : String
10497:   Function CleanAndExpandFilename( const Filenam : string) : string
10498:   Function CleanAndExpandDirectory( const Filenam : string) : string
10499:   Function TrimAndExpandFilename( const Filenam : string; const BaseDir : string) : string
10500:   Function TrimAndExpandDirectory( const Filenam : string; const BaseDir : string) : string
10501:   Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String) : Boolean
10502:   Function CreateRelativePath( const Filenam,BaseDirectory:string; UsePointDirectory:boolean;
AlwaysRequireSharedBaseFolder: Boolean) : string

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10503: Function FileIsInPath( const Filename, Path : string ) : boolean
10504: Function AppendPathDelim( const Path : string ) : string
10505: Function ChompPathDelim( const Path : string ) : string
10506: Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
10507: Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string ) : string
10508: Function MinimizeSearchPath( const SearchPath : string ) : string
10509: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
10510: (*Function FileExistsUTF8( const FileName : string ) : boolean
10511: Function FileAgeUTF8( const FileName : string ) : Longint
10512: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
10513: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string ) : string
10514: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10515: Function FindNextUTF8( var Rslt : TSearchRec ) : Longint
10516: Procedure FindCloseUTF8( var F : TSearchrec )
10517: Function FileSetDateUTF8( const FileName : String; Age : Longint ) : Longint
10518: Function FileGetAttrUTF8( const FileName : String ) : Longint
10519: Function FileSetAttrUTF8( const FileName : String; Attr : longint ) : Longint
10520: Function DeleteFileUTF8( const FileName : String ) : Boolean
10521: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
10522: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
10523: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
10524: Function GetCurrentDirUTF8 : String
10525: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean
10526: Function CreateDirUTF8( const NewDir : String ) : Boolean
10527: Function RemoveDirUTF8( const Dir : String ) : Boolean
10528: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean
10529: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
10530: Function FileCreateUTF8( const FileName : string ) : THandle;
10531: Function FileCreateUTF81( const FileName : string; Rights : Cardinal ) : THandle;
10532: Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal ) : THandle;
10533: Function FileSizeUtf8( const Filename : string ) : int64
10534: Function GetFileDescription( const AFilename : string ) : string
10535: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
10536: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean ) : string
10537: Function GetTempFileNameUTF8( const Dir, Prefix : String ) : String*)
10538: Function IsUNCPath( const Path : String ) : Boolean
10539: Function ExtractUNCVolume( const Path : String ) : String
10540: Function ExtractFileRoot( FileName : String ) : String
10541: Function GetDarwinSystemFilename( Filename : string ) : string
10542: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean )
10543: Function StrToCmdlineParam( const Param : string ) : string
10544: Function MergeCmdLineParams( ParamList : TStrings ) : string
10545: Procedure InvalidateFileStateCache( const Filename : string )
10546: Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10547: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
10548: Function ReadFileToString( const Filename : string ) : string
10549: type
10550:   TCopyFileFlag = ( cffOverwriteFile,
10551:                      cffCreateDestDirectory, cffPreserveTime );
10552:   TCopyFileFlags = set of TCopyFileFlag;*)
10553:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10554:   TCopyFileFlags', 'set of TCopyFileFlag
10555:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags ) : Boolean
10556: end;
10557:
10558: procedure SIRегистre_lazMasks(CL: TPSPPascalCompiler);
10559: begin
10560:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10561:   SIRегистre_TMask(CL);
10562:   SIRегистre_TParseStringList(CL);
10563:   SIRегистre_TMaskList(CL);
10564:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Boolean
10565:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Bool;
10566:   Function MatchesMaskList( const FileName, Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10567:   Function MatchesWindowsMaskList( const FileName, Mask:String;Separator:Char;const CaseSensitive:Bool ):Bool;
10568: end;
10569:
10570: procedure SIRегистre_JvShellHook(CL: TPSPPascalCompiler);
10571: begin
10572:   //PShellHookInfo', '^TShellHookInfo // will not work
10573:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10574:   SHELLHOOKINFO', 'TShellHookInfo
10575:   LPSHELLHOOKINFO', 'PShellHookInfo
10576:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage )
10577:   SIRегистre_TJvShellHook(CL);
10578:   Function InitJvShellHooks : Boolean
10579:   Procedure UnInitJvShellHooks
10580: end;
10581:
10582: procedure SIRегистre_JvExControls(CL: TPSPPascalCompiler);
10583: begin
10584:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10585:   +', dcHasSel, dcWantTab, dcNative )
10586:   TDlgCodes', 'set of TDlgCode
10587:   'dcWantMessage', ' dcWantAllKeys);
10588:   SIRегистre_IJvExControl(CL);
10589:   SIRегистre_IJvDenySubClassing(CL);
10590:   SIRегистre_TStructPtrMessage(CL);
10591:   Procedure SetDotNetFrameColors( FocusedColor, UnfocusedColor : TColor )

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10592: Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10593: Procedure DrawDotNetBar1( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10594: Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessag;MouseOver:Boolean;Color:TColor);
10595: Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10596: Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10597: Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10598: Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10599: Function GetFocusedControl( AControl : TControl ) : TWinControl
10600: Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10601: Function DlgCodesToDlgc( Value : TDlgCodes ) : Longint
10602: Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor )
10603: Function DispatchchisDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10604: SIRegister_TJvExControl(CL);
10605: SIRegister_TJvExWinControl(CL);
10606: SIRegister_TJvExCustomControl(CL);
10607: SIRegister_TJvExGraphicControl(CL);
10608: SIRegister_TJvExHintWindow(CL);
10609: SIRegister_TJvExPubGraphicControl(CL);
10610: end;
10611:
10612: (*-----*)
10613: procedure SIRegister_EncdDecd(CL: TPSPascalCompiler);
10614: begin
10615: Procedure EncodeStream( Input, Output : TStream )
10616: Procedure DecodeStream( Input, Output : TStream )
10617: Function EncodeString1( const Input : string ) : string
10618: Function DecodeString1( const Input : string ) : string
10619: end;
10620:
10621: (*-----*)
10622: procedure SIRegister_SockAppReg(CL: TPSPascalCompiler);
10623: begin
10624: SIRegister_TWebAppRegInfo(CL);
10625: SIRegister_TWebAppRegList(CL);
10626: Procedure GetRegisteredWebApps( Alist : TWebAppRegList )
10627: Procedure RegisterWebApp( const AFileName, AProgID : string )
10628: Procedure UnregisterWebApp( const AProgID : string )
10629: Function FindRegisteredWebApp( const AProgID : string ) : string
10630: Function CreateRegistry( InitializeNewFile : Boolean ) : TCustomIniFile
10631: 'sUDPPort', 'String' 'UDPPort'
10632: end;
10633:
10634: procedure SIRegister_PJEnvVars(CL: TPSPascalCompiler);
10635: begin
10636: // TStringDynArray', 'array of string
10637: Function GetEnvVarValue( const VarName : string ) : string
10638: Function SetEnvVarValue( const VarName, VarValue : string ) : Integer
10639: Function DeleteEnvVar( const VarName : string ) : Integer
10640: Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int );
10641: Function ExpandEnvVars( const Str : string ) : string
10642: Function GetAllEnvVars( const Vars : TStrings ) : Integer
10643: Procedure GetAllEnvVarNames( const Names : TStrings );
10644: Function GetAllEnvVarNames1 : TStringDynArray;
10645: Function EnvBlockSize : Integer
10646: TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject )
10647: SIRegister_TPJEnvVarsEnumerator(CL);
10648: SIRegister_TPJEnvVars(CL);
10649: FindClass('TOBJECT'), 'EPJEnvVars
10650: FindClass('TOBJECT'), 'EPJEnvVars
10651: //Procedure Register
10652: end;
10653:
10654: (*-----*)
10655: procedure SIRegister_PJConsoleApp(CL: TPSPascalCompiler);
10656: begin
10657: 'cOneSecInMS', 'LongInt'( 1000 );
10658: //cDefTimeSlice','LongInt'( 50 );
10659: //cDefMaxExecTime',' cOneMinInMS';
10660: 'cAppErrorMask','LongInt'( 1 shl 29 );
10661: Function IsApplicationError( const ErrCode : LongWord ) : Boolean
10662: TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10663: TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10664: Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor ):TPJConsoleColors;
10665: Function MakeConsoleColors1( const AForeground, ABackground : TColor ) : TPJConsoleColors;
10666: Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor ) : TPJConsoleColors;
10667: Function MakeSize( const ACX, ACY : LongInt ) : TSize
10668: SIRegister_TPJCustomConsoleApp(CL);
10669: SIRegister_TPJConsoleApp(CL);
10670: end;
10671:
10672: procedure SIRegister_ip_misc(CL: TPSPascalCompiler);
10673: begin
10674: INVALID_IP_ADDRESS', 'LongWord').SetUInt( $ffffffff );
10675: t_encoding', '( uuencode, base64, mime )
10676: Function internet_date( date : TDateTime ) : string
10677: Function lookup_hostname( const hostname : string ) : longint
10678: Function my_hostname : string
10679: Function my_ip_address : longint

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10680: Function ip2string( ip_address : longint ) : string
10681: Function resolve_hostname( ip : longint ) : string
10682: Function address_from( const s : string; count : integer ) : string
10683: Function encode_base64( data : TStream ) : TStringList
10684: Function decode_base64( source : TStringList ) : TMemoryStream
10685: Function posn( const s, t : string; count : integer ) : integer
10686: Function poscn( c : char; const s : string; n : integer ) : integer
10687: Function filename_of( const s : string ) : string
10688: //Function trim( const s : string ) : string
10689: //Procedure setlength( var s : string; l : byte )
10690: Function TimeZoneBias : longint
10691: Function eight2seven_quoteprint( const s : string ) : string
10692: Function eight2seven_german( const s : string ) : string
10693: Function seven2eight_quoteprint( const s : string ) : string end;
10694: type in_addr', 'record s_bytes : array[1..4] of byte; end;
10695: Function socketerror : cint
10696: Function fpsocket( domain : cint; xtype : cint; protocol : cint ) : cint
10697: Function fprecv( s : cint; buf : __pointer; len : size_t; flags : cint ) : ssize_t
10698: Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint ) : ssize_t
10699: //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen ) : cint
10700: Function fplistens( s : cint; backlog : cint ) : cint
10701: //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint ) : cint
10702: //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen ) : cint
10703: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen ) : cint
10704: Function NetAddrToStr( Entry : in_addr ) : String
10705: Function HostAddrToStr( Entry : in_addr ) : String
10706: Function StrToHostAddr( IP : String ) : in_addr
10707: Function StrToNetAddr( IP : String ) : in_addr
10708: $OL_SOCKET', 'LongWord').SetUInt( $ffff);
10709: cint8', 'shortint
10710: cuint8', 'byte
10711: cchar', 'cint8
10712: cschar', 'cint8
10713: cuchar', 'cuint8
10714: cint16', 'smallint
10715: cuint16', 'word
10716: cshort', 'cint16
10717: csshort', 'cint16
10718: cushort', 'cuint16
10719: cint32', 'longint
10720: cuint32', 'longword
10721: cint', 'cint32
10722: csint', 'cint32
10723: cuint', 'cuint32
10724: csigned', 'cint
10725: cunsigned', 'cuint
10726: cint64', 'int64
10727: clonglong', 'cint64
10728: cslonglong', 'cint64
10729: cbool', 'longbool
10730: cfloat', 'single
10731: cdouble', 'double
10732: clongdouble', 'extended
10733:
10734: procedure SIRegister_uLkJSON(CL: TPPascalCompiler);
10735: begin
10736:   TlkJSONTypes', '(jsBase,jsNumber,jsString,jsBoolean,jsNull,jsList,jsObject )
10737:   SIRegister_TlkJSONdotnetclass(CL);
10738:   SIRegister_TlkJSONbase(CL);
10739:   SIRegister_TlkJSONnumber(CL);
10740:   SIRegister_TlkJSONstring(CL);
10741:   SIRegister_TlkJSONboolean(CL);
10742:   SIRegister_TlkJSONnull(CL);
10743:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Elel : TlkJSONba'
10744:     +'se; data : TObject; var Continue : Boolean)
10745:   SIRegister_TlkJSONcustomlist(CL);
10746:   SIRegister_TlkJSONlist(CL);
10747:   SIRegister_TlkJSONobjectmethod(CL);
10748:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10749:   TlkHashFunction', 'Function ( const ws : WideString ) : cardinal
10750:   SIRegister_TlkHashTable(CL);
10751:   SIRegister_TlkBalTree(CL);
10752:   SIRegister_TlkJSONobject(CL);
10753:   SIRegister_TlkJSON(CL);
10754:   SIRegister_TlkJSONstreamed(CL);
10755:   Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10756: end;
10757:
10758: procedure SIRegister_ZSysUtils(CL: TPPascalCompiler);
10759: begin
10760:   TZListSortCompare', 'Function ( Item1, Item2 : TObject ): Integer
10761:   SIRegister_TZSortedlist(CL);
10762:   Function zFirstDelimiter( const Delimiters, Str : string ) : Integer
10763:   Function zLastDelimiter( const Delimiters, Str : string ) : Integer
10764:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer ) : Boolean
10765:   //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer ) : Boolean
10766:   Function zStartsWith( const Str, SubStr : WideString ) : Boolean;
10767:   Function StartsWith1( const Str, SubStr : RawByteString ) : Boolean;
10768:   Function EndsWith( const Str, SubStr : WideString ) : Boolean;

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10769: Function EndsWith1( const Str, SubStr : RawByteString ) : Boolean;
10770: Function SQLStrToFloatDef( Str : RawByteString; Def : Extended ) : Extended;
10771: Function SQLStrToFloatDef1( Str : String; Def : Extended ) : Extended;
10772: Function SQLStrToFloat( const Str : AnsiString ) : Extended;
10773: //Function BufferToStr( Buffer : PWideChar; Length : LongInt ) : string;
10774: //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt ) : string;
10775: Function BufferToBytes( Buffer : TObject; Length : LongInt ) : TByteDynArray
10776: Function StrToBoolEx( Str : string ) : Boolean
10777: Function BoolToStrEx( Bool : Boolean ) : String
10778: Function IsIpAddr( const Str : string ) : Boolean
10779: Function zSplitString( const Str, Delimiters : string ) : TStrings
10780: Procedure PutSplitString( List : TStrings; const Str, Delimiters : string )
10781: Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string )
10782: Function ComposeString( List : TStrings; const Delimiter : string ) : string
10783: Function FloatToSQLStr( Value : Extended ) : string
10784: Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string )
10785: Function SplitStringEx( const Str, Delimiter : string ) : TStrings
10786: Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string )
10787: Function zBytesToStr( const Value : TByteDynArray ) : AnsiString
10788: Function zStrToBytes( const Value : AnsiString ) : TByteDynArray;
10789: Function StrToBytes1( const Value : UTF8String ) : TByteDynArray;
10790: Function StrToBytes2( const Value : RawByteString ) : TByteDynArray;
10791: Function StrToBytes3( const Value : WideString ) : TByteDynArray;
10792: Function StrToBytes4( const Value : UnicodeString ) : TByteDynArray;
10793: Function BytesToVar( const Value : TByteDynArray ) : Variant
10794: Function VarToBytes( const Value : Variant ) : TByteDynArray
10795: Function AnsiSQLDateToDateTime( const Value : string ) : TDateTime
10796: Function TimestampStrToDateTime( const Value : string ) : TDateTime
10797: Function DateTimeToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean ) : string
10798: Function EncodeCString( const Value : string ) : string
10799: Function DecodeCString( const Value : string ) : string
10800: Function zReplaceChar( const Source, Target : Char; const Str : string ) : string
10801: Function MemPas( Buffer : PChar; Length : LongInt ) : string
10802: Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10803: Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10804: Function FormatsSQLVersion( const SQLVersion : Integer ) : String
10805: Function ZStrToFloat( Value : AnsiChar ) : Extended;
10806: Function ZStrToFloat1( Value : AnsiString ) : Extended;
10807: Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString );
10808: Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString );
10809: Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String );
10810: Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String );
10811: Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString );
10812: Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString );
10813: Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString );
10814: end;
10815:
10816: unit uPSI_ZEncoding;
10817: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word ) : RawByteString
10818: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word ) : String
10819: Function ZRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10820: Function ZUnicodeToRaw( const US : WideString; CP : Word ) : RawByteString
10821: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10822: Function ZConvertToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10823: Function ZConvertAnsiToUTF8( const Src : AnsiString ) : UTF8String
10824: Function ZConvertUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10825: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10826: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10827: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10828: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10829: Function ZConvertStringToRawWithAutoEncode( const Src:String;const StringCP,RawCP:Word):RawByteString;
10830: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String
10831: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10832: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP : Word ) : UTF8String
10833: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10834: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP : Word ) : AnsiString
10835: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10836: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word ) : String
10837: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word ) : String
10838: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word ) : WideString
10839: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word ) : WideString
10840: Function ZConvertStringToUnicodeWithAutoEncode( const Src : String; const StringCP : Word ) : WideString
10841: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10842: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10843: Function ZMoveAnsiToUTF8( const Src : AnsiString ) : UTF8String
10844: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10845: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10846: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10847: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10848: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10849: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10850: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10851: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10852: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10853: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10854: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word ) : WideString
10855: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word ) : RawByteString

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10856: Function ZDefaultSystemCodePage : Word
10857: Function ZCompatibleCodePages( const CP1, CP2 : Word) : Boolean
10858:
10859:
10860: procedure SIRegister_BoldComUtils(CL: TPSPascalCompiler);
10861: begin
10862:   'RPC_C_AUTHN_LEVEL_DEFAULT', 'LongInt'( 0);
10863:   ('RPC_C_AUTHN_LEVEL_NONE', 'LongInt'( 1);
10864:   ('RPC_C_AUTHN_LEVEL_CONNECT', 'LongInt'( 2);
10865:   ('RPC_C_AUTHN_LEVEL_CALL', 'LongInt'( 3);
10866:   ('RPC_C_AUTHN_LEVEL_PKT', 'LongInt'( 4);
10867:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY', 'LongInt'( 5);
10868:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY', 'LongInt'( 6);
10869:   {'alDefault','1 RPC_C_AUTHN_LEVEL_DEFAULT';
10870:   ('alNone','2 RPC_C_AUTHN_LEVEL_NONE';
10871:   ('alConnect','3 RPC_C_AUTHN_LEVEL_CONNECT';
10872:   ('alCall','4 RPC_C_AUTHN_LEVEL_CALL';
10873:   ('alPacket','5 RPC_C_AUTHN_LEVEL_PKT';
10874:   ('alPacketIntegrity','6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY';
10875:   ('alPacketPrivacy','7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY);
10876:   ('RPC_C_IMP_LEVEL_DEFAULT','LongInt'( 0);
10877:   ('RPC_C_IMP_LEVEL_ANONYMOUS','LongInt'( 1);
10878:   ('RPC_C_IMP_LEVEL_IDENTIFY','LongInt'( 2);
10879:   ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt'( 3);
10880:   ('RPC_C_IMP_LEVEL_DELEGATE','LongInt'( 4);
10881:   {'ilDefault','0 RPC_C_IMP_LEVEL_DEFAULT';
10882:   ('iAnonymous','1 RPC_C_IMP_LEVEL_ANONYMOUS';
10883:   ('ilIdentiry','2 RPC_C_IMP_LEVEL_IDENTIFY';
10884:   ('ilImpersonate','3 RPC_C_IMP_LEVEL_IMPERSONATE';
10885:   ('ilDelegate','4 RPC_C_IMP_LEVEL_DELEGATE);
10886:   ('EOAC_NONE','LongWord').SetUInt( $0);
10887:   ('EOAC_DEFAULT','LongWord').SetUInt( $800);
10888:   ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1);
10889:   ('EOAC_STATIC_CLOACKING','LongWord').SetUInt( $20);
10890:   ('EOAC_DYNAMIC_CLOAKING','LongWord').SetUInt( $40);
10891:   ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80);
10892:   ('RPC_C_AUTHN_WINNT','LongInt'( 10);
10893:   ('RPC_C_AUTHNZ_NONE','LongInt'( 0);
10894:   ('RPC_C_AUTHNZ_NAME','LongInt'( 1);
10895:   ('RPC_C_AUTHNZ_DCE','LongInt'( 2);
10896:   FindClass('TOBJECT'), 'EBoldCom
10897:   Function BoldVariantIsType( V : OleVariant; TypeCode : Integer) : Boolean
10898:   Function BoldMemoryToVariant( const Buffer, BufSize : Integer) : OleVariant
10899:   Function BoldStreamToVariant( Stream : TStream) : OleVariant
10900:   Function BoldStringsToVariant( Strings : TStrings) : OleVariant
10901:   Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer) : Integer
10902:   Function BoldVariantToStream( V : OleVariant; Stream : TStream) : Integer
10903:   Function BoldVariantArrayOfArraysOfStringToStrings( V : OleVariant; Strings : TStrings) : Integer
10904:   Function BoldVariantIsNamedValues( V : OleVariant) : Boolean
10905:   Function BoldCreateNamedValues( const Names:array of string;const Values:array of OleVariant):OleVariant;
10906:   Function BoldGetNamedValue( Data : OleVariant; const Name : string) : OleVariant
10907:   Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant)
10908:   Function BoldCreateGUID : TGUID
10909:   Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult) : Boolean
10910:   Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out Res:HRes):Bool;
10911:   Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint)
10912:   Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint:Unk:IUnknown);
10913: end;
10914:
10915: (*-----*)
10916: procedure SIRegister_BoldIsoDateTime(CL: TPSPascalCompiler);
10917: begin
10918:   Function ParseISODate( s : string) : TDateTime
10919:   Function ParseISODateTime( s : string) : TDateTime
10920:   Function ParseISOTime( str : string) : TDateTime
10921: end;
10922:
10923: (*-----*)
10924: procedure SIRegister_BoldGUIDUtils(CL: TPSPascalCompiler);
10925: begin
10926:   Function BoldCreateGUIDAsString( StripBrackets : Boolean) : string
10927:   Function BoldCreateGUIDWithBracketsAsString : string
10928: end;
10929:
10930: procedure SIRegister_BoldFileHandler(CL: TPSPascalCompiler);
10931: begin
10932:   FindClass('TOBJECT'), 'TBoldFileHandler
10933:   FindClass('TOBJECT'), 'TBoldDiskFileHandler
10934:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
10935:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList)
10936:   SIRegister_TBoldFileHandler(CL);
10937:   SIRegister_TBoldDiskFileHandler(CL);
10938:   Procedure BoldCloseAllFileHandlers
10939:   Procedure BoldRemoveUnchangedFilesFromEditor
10940:   Function BoldFileHandlerList : TBoldObjectArray
10941:   Function BoldFileHandlerForfile(path,FileName:string; ModuleType:TBoldModuleType;ShowInEditor:Bool;
10942:   OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
10943: end;

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10943:
10944: procedure SIRегистер_BoldWinINet(CL: TPSpascalCompiler);
10945: begin
10946:   PCharArr', 'array of PChar
10947:   Function BoldInternetOpen(Agent: String;
10948:    AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
10949:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
10950:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
10951:     NumberOfBytesRead:Card):LongBool;
10952:   Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
10953:   Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
10954:     Cardinal; Reserved : Cardinal ) : LongBool
10955:   Function BoldInternetQueryDataAvailable( hfile : Pointer; var NumberOfBytesAvailable : Cardinal; flags :
10956:     Cardinal; Context : Cardinal ) : LongBool
10957:   Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
10958:     : PCharArr; Flags, Context : Cardinal) : Pointer
10959:   Function BoldHttpSendRequest(hRequest:Ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
10960:   Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
10961:   Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
10962:   Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
10963:     Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
10964:   Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
10965: end;
10966:
10967:
10968: (*-----*)
10969: procedure SIRегистер_BoldQueue(CL: TPSpascalCompiler);
10970: begin
10971:   //('befIsInDisplayList',' BoldElementFlag0 );
10972:   //('befStronglyDependedOfPrioritized',' BoldElementFlag1 );
10973:   //('befFollowerSelected',' BoldElementFlag2 );
10974:   FindClass('TOBJECT','TBoldQueue
10975:   FindClass('TOBJECT','TBoldQueueable
10976:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
10977:   SIRегистер_TBoldQueueable(CL);
10978:   SIRегистер_TBoldQueue(CL);
10979:   Function BoldQueueFinalized : Boolean
10980:   Function BoldInstalledQueue : TBoldQueue
10981: end;
10982:
10983: procedure SIRегистер_Barcod(CL: TPSpascalCompiler);
10984: begin
10985:   const mmPerInch,'Extended').setExtended( 25.4 );
10986:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
10987:     + 'bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
10988:     + 'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
10989:     + 'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
10990:     + 'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
10991:   TBarLineType', '( white, black, black_half )
10992:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
10993:   TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st'
10994:     + 'pBottomLeft, stpBottomRight, stpBottomCenter )
10995:   TCheckSumMethod', '( csmNone, csmModulo10 )
10996:   SIRегистер_TAsBarcode(CL);
10997:   Function CheckSumModulo10( const data : String ) : String
10998:   Function ConvertMmToPixelsX( const Value : Double ) : Integer
10999:   Function ConvertMmToPixelsY( const Value : Double ) : Integer
11000:   Function ConvertInchToPixelsX( const Value : Double ) : Integer
11001:   Function ConvertInchToPixelsY( const Value : Double ) : Integer
11002: end;
11003:
11004: procedure SIRегистер_Geometry(CL: TPSpascalCompiler); //OpenGL
11005: begin
11006:   THomogeneousByteVector', 'array[0..3] of Byte
11007:   THomogeneousWordVector', 'array[0..3] of Word
11008:   THomogeneousIntVector', 'array[0..3] of Integer
11009:   THomogeneousFltVector', 'array[0..3] of single
11010:   THomogeneousDblVector', 'array[0..3] of double
11011:   THomogeneousExtVector', 'array[0..3] of extended
11012:   TAffineByteVector', 'array[0..2] of Byte
11013:   TAffineWordVector', 'array[0..2] of Word
11014:   TAffineIntVector', 'array[0..2] of Integer
11015:   TAffineFltVector', 'array[0..2] of single
11016:   TAffineDblVector', 'array[0..2] of double
11017:   TAffineExtVector', 'array[0..2] of extended
11018:   THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11019:   THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11020:   THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11021:   THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11022:   THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11023:   THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11024:   TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11025:   TAffineWordMatrix', 'array[0..2] of TAffineWordVector

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11026: TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11027: TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11028: TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11029: TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11030: TMatrix4b', 'THomogeneousByteMatrix
11031: TMatrix4w', 'THomogeneousWordMatrix
11032: TMatrix4i', 'THomogeneousIntMatrix
11033: TMatrix4f', 'THomogeneousFltMatrix
11034: TMatrix4d', 'THomogeneousDblMatrix
11035: TMatrix4e', 'THomogeneousExtMatrix
11036: TMatrix3b', 'TAffineByteMatrix
11037: TMatrix3w', 'TAffineWordMatrix
11038: TMatrix3i', 'TAffineIntMatrix
11039: TMatrix3f', 'TAffineFltMatrix
11040: TMatrix3d', 'TAffineDblMatrix
11041: TMatrix3e', 'TAffineExtMatrix
11042: //'PMatrix', '^TMatrix // will not work
11043: TMatrixGL', 'THomogeneousFltMatrix
11044: THomogeneousMatrix', 'THomogeneousFltMatrix
11045: TAffineMatrix', 'TAffineFltMatrix
11046: TQuaternion', 'record Vector : TVector4f; end
11047: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11048: +'ger; Height : Integer; end
11049: TTransType', '( ttScaleY, ttScaleZ, ttShearXY, ttShear'
11050: +'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11051: +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11052: 'EPSILON', 'Extended').setExtended( 1E-100 );
11053: 'EPSILON2', 'Extended').setExtended( 1E-50 );
11054: Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11055: Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11056: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11057: Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11058: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single ) : TAffineVector
11059: Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11060: Function VectorAngle( V1, V2 : TAffineVector ) : Single
11061: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11062: Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11063: Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11064: Function VectorLength( V : array of Single ) : Single
11065: Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11066: Procedure VectorNegate( V : array of Single )
11067: Function VectorNorm( V : array of Single ) : Single
11068: Function VectorNormalize( V : array of Single ) : Single
11069: Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11070: Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11071: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single )
11072: Procedure VectorScale( V : array of Single; Factor : Single )
11073: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11074: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11075: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11076: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11077: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11078: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11079: Procedure MatrixAdjoint( var M : TMatrixGL )
11080: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11081: Procedure MatrixAffineTranspose( var M : TAffineMatrix )
11082: Function MatrixDeterminant( M : TMatrixGL ) : Single
11083: Procedure MatrixInvert( var M : TMatrixGL )
11084: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11085: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11086: Procedure MatrixTranspose( var M : TMatrixGL )
11087: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11088: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion
11089: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11090: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11091: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11092: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
11093: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11094: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11095: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11096: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11097: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11098: Function VectorTransform1( V : TVector3f; M : TMatrixGL ) : TVector3f;
11099: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11100: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11101: Function MakeAffineVector( V : array of Single ) : TAffineVector
11102: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11103: Function MakeVector( V : array of Single ) : TVectorGL
11104: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11105: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11106: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11107: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11108: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11109: Function ArcCosGL( X : Extended ) : Extended
11110: Function ArcSinGL( X : Extended ) : Extended
11111: Function ArcTan2GL( Y, X : Extended ) : Extended
11112: Function CoTanGL( X : Extended ) : Extended
11113: Function DegToRadGL( Degrees : Extended ) : Extended
11114: Function RadToDegGL( Radians : Extended ) : Extended

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11288: function getBigPI: string; //PI of 1000 numbers
11289:
11290: procedure SIRegister_devutils(CL: TPSPPascalCompiler);
11291: begin
11292:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11293:   Procedure CDCopyFile( const FileName, DestName : string)
11294:   Procedure CDMoveFile( const FileName, DestName : string)
11295:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11296:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11297:   Function CDGetTempDir : string
11298:   Function CDGetFileSize( FileName : string) : longint
11299:   Function GetfileTime( FileName : string) : longint
11300:   Function GetShortName( FileName : string) : string
11301:   Function GetFullName( FileName : string) : string
11302:   Function WinReboot : boolean
11303:   Function WinDir : string
11304:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11305:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11306:   Function devExecutor : TdevExecutor
11307: end;
11308:
11309: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11310: begin
11311:   Procedure CheckAssociations // AssociationsCount','LongInt'( 7);
11312:   Procedure Associate( Index : integer)
11313:   Procedure UnAssociate( Index : integer)
11314:   Function IsAssociated( Index : integer) : boolean
11315:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11316:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp,IcoNum: string)
11317:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11318:   procedure RefreshIcons;
11319:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11320:   function MergColor(Colors: Array of TColor): TColor;
11321:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11322:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11323:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11324:   function GetInverseColor(AColor: TColor): TColor;
11325:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11326:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer;ShadowColor: TColor);
11327:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11328:   Procedure GetSystemMenuFont(Font: TFont);
11329: end;
11330:
11331: //*****unit uPSI_JvHLParser;*****
11332: function IsStringConstant(const St: string): Boolean;
11333: function IsIntConstant(const St: string): Boolean;
11334: function IsRealConstant(const St: string): Boolean;
11335: function IsIdentifier(const ID: string): Boolean;
11336: function GetStringValue(const St: string): string;
11337: procedure ParseString(const S: string; Ss: TStrings);
11338: function IsStringConstantW(const St: WideString): Boolean;
11339: function IsIntConstantW(const St: WideString): Boolean;
11340: function IsRealConstantW(const St: WideString): Boolean;
11341: function IsIdentifierW(const ID: WideString): Boolean;
11342: function GetStringValueW(const St: WideString): WideString;
11343: procedure ParseStringW(const S: WideString; Ss: TStrings);
11344:
11345:
11346: //*****unit uPSI_JclMapi;*****
11347:
11348: Function JclSimpleSendMail( const ARecipient,AName,ASubject , ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; APARENTWND : HWND ) : Boolean
11349: Function JclSimpleSendFax( const ARecipient , AName,ASubject , ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; APARENTWND : HWND ) : Boolean
11350: Function JclSimpleBringUpSendMailDialog(const ASubject,ABody:string;const AAAttach:TFileName;APARENTWND:HWND):Bool
11351: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11352: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11353:
11354: procedure SIRegister_IdNTLM(CL: TPSPPascalCompiler);
11355: begin
11356:   //'pdes_key_schedule', '^des_key_schedule // will not work
11357:   Function BuildType1Message( ADomain, AHost : String ) : String
11358:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11359:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass )
11360:   Function FindAuthClass( AuthName : String ) : TIIdAuthenticationClass
11361:   GBase64CodeTable', 'string'ABCDEFHJKLNMOPQRSTUVWXYZabcddefghijklmnopqrstuvwxyz0123456789+/
11362:   GXHECodeTable', 'string'~0123456789ABCDEFHJKLNMOPQRSTUVWXYZabcddefghijklmnopqrstuvwxyz
11363:   GUUECodeTable', 'string'`!#$%&`(*+,.-/0123456789:;<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_
11364: end;
11365:
11366: procedure SIRegister_WDosSocketUtils(CL: TPSPPascalCompiler);
11367: begin
11368:   ('IpAny', 'LongWord').SetUInt( $00000000 );
11369:   IpLoopBack', 'LongWord').SetUInt( $7F000001 );
11370:   IpBroadcast', 'LongWord').SetUInt( $FFFFFF );
11371:   IpNone', 'LongWord').SetUInt( $FFFF );
11372:   PortAny', 'LongWord( $0000 );
11373:   SocketMaxConnections', 'LongInt'( 5 );

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11374: TIPAddr', 'LongWord
11375: TIPRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11376: Function HostToNetLong( HostLong : LongWord) : LongWord
11377: Function HostToNetShort( HostShort : Word) : Word
11378: Function NetToHostLong( NetLong : LongWord) : LongWord
11379: Function NetToHostShort( NetShort : Word) : Word
11380: Function StrToIp( Ip : string) : TIPAddr
11381: Function IpToStr( Ip : TIPAddr) : string
11382: end;
11383:
11384: (*-----*)
11385: procedure SIRegister_ALSMTPClient(CL: TPSPascalCompiler);
11386: begin
11387:   TAISmtClientAuthType', '( AlsmtpClientAuthNone, alsmtpClientAuth'
11388:     +'hPlain, AlsmtpClientAuthLogin, AlsmtpClientAuthCramMD5, AlsmtpClientAuthCr'
11389:     +'amShal, AlsmtpClientAuthAutoSelect )
11390:   TAISmtClientAuthTypeSet', 'set of TAISmtClientAuthType
11391:   SIRegister_TAISmtClient(CL);
11392: end;
11393:
11394: procedure SIRegister_WDOSPlcUtils(CL: TPSPascalCompiler);
11395: begin
11396:   'TBitNo', 'Integer
11397:   TStByteNo', 'Integer
11398:   TStationNo', 'Integer
11399:   TInOutNo', 'Integer
11400:   TIO', '( EE, AA, NE, NA )
11401:   TBitSet', 'set of TBitNo
11402:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11403:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11404:   TBitAddr', 'LongInt
11405:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11406:   TByteAddr', 'SmallInt
11407:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11408:   Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11409:   Function BusBitAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStationNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11410:   Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var
11411: aBitNo:TBitNo);
11412:   Function BitAddrToStr( Value : TBitAddr ) : string
11413:   Function StrToBitAddr( const Value : string ) : TBitAddr
11414:   Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11415:   Function BusByteAddr(aIo:TIO;aInOutNo:TInOutNo;aStation:TStationNo;aStByteNo: TStByteNo):TByteAddr
11416:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11417:   Function ByteAddrToStr( Value : TByteAddr ) : string
11418:   Function StrToByteAddr( const Value : string ) : TByteAddr
11419:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11420:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11421:   Function InOutStateToStr( State : TInOutState ) : string
11422:   Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11423:   Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11424:
11425: procedure SIRegister_WDOSTimers(CL: TPSPascalCompiler);
11426: begin
11427:   TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11428:     +'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11429:   DpmiPmVector', 'Int64
11430:   'DInterval', 'LongInt'( 1000 );
11431:   //''DEnabled', 'Boolean')BoolToStr( True );
11432:   'DIntFreq', 'string' if64
11433:   //''DMessages', 'Boolean if64';
11434:   SIRegister_TwdxCustomTimer(CL);
11435:   SIRegister_TwdxTimer(CL);
11436:   SIRegister_TwdxRtcTimer(CL);
11437:   SIRegister_TCustomIntTimer(CL);
11438:   SIRegister_TIntTimer(CL);
11439:   SIRegister_TRtcIntTimer(CL);
11440:   Function RealNow : TDateTime
11441:   Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11442:   Function DateTimeToMs( Time : TDateTime ) : LongInt
11443: end;
11444:
11445: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11446: begin
11447:   TIdSyslogPRI', 'Integer
11448:   TIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11449:     +'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11450:     +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11451:     +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11452:     +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11453:   TIdSyslogSeverity', '( slEmergency, slAlert, slCritical, slError, slWarning, slNotice, slInformational, slDebug )
11454:   SIRegister_TIdSysLogMsgPart(CL);
11455:   SIRegister_TIdSysLogMessage(CL);
11456:   Function FacilityToString( AFac : TIdSyslogFacility ) : string
11457:   Function SeverityToString( ASec : TIdSyslogSeverity ) : string
11458:   Function NoToSeverity( ASev : Word ) : TIdSyslogSeverity
11459:   Function logSeverityToNo( ASev : TIdSyslogSeverity ) : Word
11460:   Function NoToFacility( AFac : Word ) : TIdSyslogFacility
11461:   Function logFacilityToNo( AFac : TIdSyslogFacility ) : Word

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11462: end;
11463:
11464: procedure SIRegister_TextUtils(CL: TPSPPascalCompiler);
11465: begin
11466:   'UWhitespace','String '(?:\s*)
11467:   Function StripSpaces( const AText : string ) : string
11468:   Function CharCount( const AText : string; Ch : Char ) : Integer
11469:   Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11470:   Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11471: end;
11472:
11473:
11474: procedure SIRegister_ExtPascalUtils(CL: TPSPPascalCompiler);
11475: begin
11476:   ExtPascalVersion', 'String '0.9.8
11477:   AddTypeS('TBrowser', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11478:     +'Opera, brKonqueror, brMobileSafari )
11479:   AddTypeS('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11480:   AddTypeS('TExtProcedure', 'Procedure
11481:   Function DetermineBrowser( const UserAgentStr : string ) : TBrowser
11482:   Function ExtExtract( const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool ):bool;
11483:   Function ExtExplode( Delim: char; const S : string; Separator : char ) : TStringList
11484:   Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11485:   Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11486:   Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11487:   Function StrToJS( const S : string; UseBR : boolean ) : string
11488:   Function CaseOf( const S : string; const Cases : array of string ) : integer
11489:   Function RCaseOf( const S : string; const Cases : array of string ) : integer
11490:   Function EnumToJSString( TypeInfo : PTTypeInfo; Value : integer ) : string
11491:   Function SetPaddings(Top:integer;Right:int;Bottom:intr;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11492:   Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11493:   Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11494:   Function IsUpperCase( S : string ) : boolean
11495:   Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11496:   Function BeautifyCSS( const AStyle : string ) : string
11497:   Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11498:   Function JSDateToDate( JSDate : string ) : TDateTime
11499: end;
11500:
11501: procedure SIRegister_JclShell(CL: TPSPPascalCompiler);
11502: begin
11503:   TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11504:   TSHDeleteOptions', 'set of TSHDeleteOption
11505:   TSHRenameOption', '( roSilent, roRenameOnCollision )
11506:   TSHRenameOptions', 'set of TSHRenameOption
11507:   Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11508:   Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11509:   Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11510:   TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11511:   TEnumFolderFlags', 'set of TEnumFolderFlag
11512:   TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11513:     +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EণuIdList : '
11514:     +'IEnumIdList; Folder : IShellFolder; end
11515:   Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11516:   Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11517:   Procedure SHEnumFolderClose( var F : TEnumFolderRec)
11518:   Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11519:   Function GetSpecialFolderLocation( const Folder : Integer ) : string
11520:   Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11521:   Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11522:   Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11523:   Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11524:   Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11525:   Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean
11526:   Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11527:   Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11528:   Function SHFreeMem( var P : Pointer ) : Boolean
11529:   Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PItemIdList
11530:   Function PathToPidl( const Path : string; Folder : IShellFolder ) : PItemIdList
11531:   Function PathToPidlBind( const FileName : string; out Folder : IShellFolder ) : PItemIdList
11532:   Function PidlbindToParent( const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11533:   Function PidlCompare( const Pidl1, Pidl2 : PItemIdList ) : Boolean
11534:   Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList ) : Boolean
11535:   Function PidlFree( var IdList : PItemIdList ) : Boolean
11536:   Function PidlGetDepth( const Pidl : PItemIdList ) : Integer
11537:   Function PidlGetLength( const Pidl : PItemIdList ) : Integer
11538:   Function PidlGetNext( const Pidl : PItemIdList ) : PItemIdList
11539:   Function PidlToPath( Idlist : PItemIdList ) : string
11540:   Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11541:   Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11542:   PShellLink', '^TShellLink // will not work
11543:   record Arguments : string; ShowCmd : Integer; Work'
11544:     +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11545:     +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11546:   Procedure ShellLinkFree( var Link : TShellLink )
11547:   Function ShellLinkResolve( const FileName : string; var Link : TShellLink ) : HRESULT
11548:   Function ShellLinkCreate( const Link : TShellLink; const FileName : string ) : HRESULT
11549:   Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11550:   Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon ) : Boolean

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11551: Function SHDllGetVersion( const FileName : string; var Version : TDllVersionInfo) : Boolean
11552: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal) : HICON
11553: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean) : Boolean
11554: Function OverlayIconShortCut( var Large, Small : HICON) : Boolean
11555: Function OverlayIconShared( var Large, Small : HICON) : Boolean
11556: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList) : string
11557: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11558: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11559: Function ShellExecAndWait(const FileName:string;const Params: string;const Verb:string;CmdShow:Int):Bool;
11560: Function ShellOpenAs( const FileName : string) : Boolean
11561: Function ShellRasDial( const EntryName : string) : Boolean
11562: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11563: Function GetFileNameIcon( const FileName : string; Flags : Cardinal) : HICON
11564: TuClFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )'
11565: Function GetfileExeType( const FileName : TFileName) : TJclFileExeType
11566: Function ShellFindExecutable( const FileName, DefaultDir : string) : string
11567: Procedure keybd_event( bvK : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD)
11568: Function OemKeyScan( wOemChar : Word) : DWORD
11569: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD)
11570: end;
11571:
11572: procedure SIRegister_cXMLFunctions(CL: TPSPPascalCompiler);
11573: begin
11574:   xmlVersion', 'String '1.0' FindClass('TOBJECT'), 'Exml
11575:   //Function xmlValidChar( const Ch : AnsiChar) : Boolean;
11576:   Function xmlValidChar1( const Ch : UCS4Char) : Boolean;
11577:   Function xmlValidChar2( const Ch : WideChar) : Boolean;
11578:   Function xmlIsSpaceChar( const Ch : WideChar) : Boolean
11579:   Function xmlIsLetter( const Ch : WideChar) : Boolean
11580:   Function xmlIsDigit( const Ch : WideChar) : Boolean
11581:   Function xmlIsNameStartChar( const Ch : WideChar) : Boolean
11582:   Function xmlIsNameChar( const Ch : WideChar) : Boolean
11583:   Function xmlIsPubidChar( const Ch : WideChar) : Boolean
11584:   Function xmlValidName( const Text : UnicodeString) : Boolean
11585:   //xmlSpace', 'Char #$20 or #$9 or #$D or #$A);
11586:   //Function xmlSkipSpace( var P : PWideChar) : Boolean
11587:   //Function xmlSkipEq( var P : PWideChar) : Boolean
11588:   //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString) : Boolean
11589:   //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer)
11590:   : TUncodeCodecClass
11591:   Function xmlResolveEntityReference( const RefName : UnicodeString) : WideChar
11592:   Function xmlTag( const Tag : UnicodeString) : UnicodeString
11593:   Function xmlEndTag( const Tag : UnicodeString) : UnicodeString
11594:   Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString) : UnicodeString
11595:   Function xmlEmptyTag( const Tag, Attr : UnicodeString) : UnicodeString
11596:   Procedure xmlSafeTextInPlace( var Txt : UnicodeString)
11597:   Function xmlSafeText( const Txt : UnicodeString) : UnicodeString
11598:   Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer):UnicodeString
11599:   Function xmlTabIndent( const IndentLevel : Integer) : UnicodeString
11600:   Function xmlComment( const Comment : UnicodeString) : UnicodeString
11601:   Procedure SelfTestcXMLFunctions
11602: end;
11603: (*-----*)
11604: procedure SIRegister_DepWalkUtils(CL: TPSPPascalCompiler);
11605: begin
11606:   Function AWAITCursor : IUnknown
11607:   Function ChangeCursor( NewCursor : TCursor) : IUnknown
11608:   Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean)
11609:   Function YesNo( const ACaption, AMsg : string) : boolean
11610:   Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings)
11611:   Function GetBorlandLibPath( Version : integer; ForDelphi : boolean) : string
11612:   Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean) : string
11613:   Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings)
11614:   Procedure GetSystemPaths( Strings : TStrings)
11615:   Procedure MakeEditNumeric( EditHandle : integer)
11616: end;
11617:
11618: procedure SIRegister_yuvconverts(CL: TPSPPascalCompiler);
11619: begin
11620:   AddTypeS('TVideoCodec','(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11621:   'BI_YUY2','LongWord( $32595559);
11622:   'BI_UYVY','LongWord').SetUInt( $59565955);
11623:   'BI_BTYUV','LongWord').SetUInt( $50313459);
11624:   'BI_YVU9','LongWord').SetUInt( $39555659);
11625:   'BI_YUV12','LongWord( $30323449);
11626:   'BI_Y8','LongWord').SetUInt( $20203859);
11627:   'BI_Y211','LongWord').SetUInt( $31313259);
11628:   Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec
11629:   Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11630: end;
11631:
11632: (*-----*)
11633: procedure SIRegister_AviCap(CL: TPSPPascalCompiler);
11634: begin
11635:   'WM_USER','LongWord').SetUInt( $0400);
11636:   'WM_CAP_START','LongWord').SetUInt($0400);
11637:   'WM_CAP_END','longword').SetUInt($0400+85);
11638: //WM_CAP_START+ 85

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11639: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11640: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt ) : LongInt
11641: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt ) : LongInt
11642: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt ) : LongInt
11643: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt ) : LongInt
11644: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11645: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11646: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt ) : LongInt
11647: Function capSetUserData( hwnd : THandle; lUser : LongInt ) : LongInt
11648: Function capGetUserData( hwnd : THandle ) : LongInt
11649: Function capDriverConnect( hwnd : THandle; I : Word ) : LongInt
11650: Function capDriverDisconnect( hwnd : THandle ) : LongInt
11651: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11652: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word ) : LongInt
11653: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11654: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt ) : LongInt
11655: Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11656: Function capFileAlloc( hwnd : THandle; dwSize : LongInt ) : LongInt
11657: Function capFileSaveAs( hwnd : THandle; szName : LongInt ) : LongInt
11658: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt ) : LongInt
11659: Function capFileSaveDIB( hwnd : THandle; szName : LongInt ) : LongInt
11660: Function capEditCopy( hwnd : THandle ) : LongInt
11661: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11662: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11663: Function capGetAudioFormatSize( hwnd : THandle ) : LongInt
11664: Function capDlgVideoFormat( hwnd : THandle ) : LongInt
11665: Function capDlgVideoSource( hwnd : THandle ) : LongInt
11666: Function capDlgVideoDisplay( hwnd : THandle ) : LongInt
11667: Function capDlgVideoCompression( hwnd : THandle ) : LongInt
11668: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11669: Function capGetVideoFormatSize( hwnd : THandle ) : LongInt
11670: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11671: Function capPreview( hwnd : THandle; f : Word ) : LongInt
11672: Function capPreviewRate( hwnd : THandle; wMS : Word ) : LongInt
11673: Function capOverlay( hwnd : THandle; f : Word ) : LongInt
11674: Function capPreviewScale( hwnd : THandle; f : Word ) : LongInt
11675: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11676: Function capSetScrollPos( hwnd : THandle; lpP : LongInt ) : LongInt
11677: Function capGrabFrame( hwnd : THandle ) : LongInt
11678: Function capGrabFrameNoStop( hwnd : THandle ) : LongInt
11679: Function capCaptureSequence( hwnd : THandle ) : LongInt
11680: Function capCaptureSequenceNoFile( hwnd : THandle ) : LongInt
11681: Function capCaptureStop( hwnd : THandle ) : LongInt
11682: Function capCaptureAbort( hwnd : THandle ) : LongInt
11683: Function capCaptureSingleFrameOpen( hwnd : THandle ) : LongInt
11684: Function capCaptureSingleFrameClose( hwnd : THandle ) : LongInt
11685: Function capCaptureSingleFrame( hwnd : THandle ) : LongInt
11686: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11687: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11688: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt ) : LongInt
11689: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11690: Function capPaletteOpen( hwnd : THandle; szName : LongInt ) : LongInt
11691: Function capPaletteSave( hwnd : THandle; szName : LongInt ) : LongInt
11692: Function capPalettePaste( hwnd : THandle ) : LongInt
11693: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt ) : LongInt
11694: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt ) : LongInt
11695: //PCapDriverCaps', '^TCapDriverCaps // will not work
11696: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11697: +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11698: +' y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hvid'
11699: +' eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11700: //PCapStatus', '^TCapStatus // will not work
11701: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11702: +' fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT'
11703: +' T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11704: +' OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11705: +' rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11706: +' ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD; '
11707: +' wNumAudioAllocated : WORD; end
11708: //PCaptureParms', '^TCaptureParms // will not work
11709: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11710: +' UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fyield : BOOL; dwI'
11711: +' ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11712: +' deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11713: +' Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11714: +' ed : BOOL; wTimeLimit : WORD; fmCIControl : BOOL; fStepMCIDevice : BOOL; d'
11715: +' wMCISearchBar : WORD; dwMCISearchBar : DWORD; fStepCaptureAt2x : BOOL; wSt'
11716: +' epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11717: +' he : BOOL; AVStreamMaster : WORD; end
11718: // PCapInfoChunk', '^TCapInfoChunk // will not work
11719: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11720: 'CONTROLCALLBACK_PREROLL', 'LongInt'( 1 );
11721: 'CONTROLCALLBACK_CAPTURING', 'LongInt'( 2 );
11722: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer ) : THandle
11723: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11724: 'IDS_CAP_BEGIN','LongInt'( 300 );
11725: 'IDS_CAP_END','LongInt'( 301 );

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11726: 'IDS_CAP_INFO','LongInt'( 401);
11727: 'IDS_CAP_OUTOFMEM','LongInt'( 402);
11728: 'IDS_CAP_FILEEXISTS','LongInt'( 403);
11729: 'IDS_CAP_ERRORPALOPEN','LongInt'( 404);
11730: 'IDS_CAP_ERRORPALSAVE','LongInt'( 405);
11731: 'IDS_CAP_ERRORDIBSAVE','LongInt'( 406);
11732: 'IDS_CAP_DEFAVIEEXT','LongInt'( 407);
11733: 'IDS_CAP_DEFFPALEXT','LongInt'( 408);
11734: 'IDS_CAP_CANTOPEN','LongInt'( 409);
11735: 'IDS_CAP_SEQ_MSGSTART','LongInt'( 410);
11736: 'IDS_CAP_SEQ_MSGSTOP','LongInt'( 411);
11737: 'IDS_CAP_VIDEITERR','LongInt'( 412);
11738: 'IDS_CAP_READONLYFILE','LongInt'( 413);
11739: 'IDS_CAP_WRITEERROR','LongInt'( 414);
11740: 'IDS_CAP_NODISKSPACE','LongInt'( 415);
11741: 'IDS_CAP_SETFILESIZE','LongInt'( 416);
11742: 'IDS_CAP_SAVEASPERCENT','LongInt'( 417);
11743: 'IDS_CAP_DRIVER_ERROR','LongInt'( 418);
11744: 'IDS_CAP_WAVE_OPEN_ERROR','LongInt'( 419);
11745: 'IDS_CAP_WAVE_ALLOC_ERROR','LongInt'( 420);
11746: 'IDS_CAP_WAVE_PREPARE_ERROR','LongInt'( 421);
11747: 'IDS_CAP_WAVE_ADD_ERROR','LongInt'( 422);
11748: 'IDS_CAP_WAVE_SIZE_ERROR','LongInt'( 423);
11749: 'IDS_CAP_VIDEO_OPEN_ERROR','LongInt'( 424);
11750: 'IDS_CAP_VIDEO_ALLOC_ERROR','LongInt'( 425);
11751: 'IDS_CAP_VIDEO_PREPARE_ERROR','LongInt'( 426);
11752: 'IDS_CAP_VIDEO_ADD_ERROR','LongInt'( 427);
11753: 'IDS_CAP_VIDEO_SIZE_ERROR','LongInt'( 428);
11754: 'IDS_CAP_FILE_OPEN_ERROR','LongInt'( 429);
11755: 'IDS_CAP_FILE_WRITE_ERROR','LongInt'( 430);
11756: 'IDS_CAP_RECORDING_ERROR','LongInt'( 431);
11757: 'IDS_CAP_RECORDING_ERROR2','LongInt'( 432);
11758: 'IDS_CAP_AVI_INIT_ERROR','LongInt'( 433);
11759: 'IDS_CAP_NO_FRAME_CAP_ERROR','LongInt'( 434);
11760: 'IDS_CAP_NO_PALETTE_WARN','LongInt'( 435);
11761: 'IDS_CAP_MCI_CONTROL_ERROR','LongInt'( 436);
11762: 'IDS_CAP_MCI_CANT_STEP_ERROR','LongInt'( 437);
11763: 'IDS_CAP_NO_AUDIO_CAP_ERROR','LongInt'( 438);
11764: 'IDS_CAP_AVI_DRAWDIB_ERROR','LongInt'( 439);
11765: 'IDS_CAP_COMPRESSOR_ERROR','LongInt'( 440);
11766: 'IDS_CAP_AUDIO_DROP_ERROR','LongInt'( 441);
11767: 'IDS_CAP_STAT_LIVE_MODE','LongInt'( 500);
11768: 'IDS_CAP_STAT_OVERLAY_MODE','LongInt'( 501);
11769: 'IDS_CAP_STAT_CAP_INIT','LongInt'( 502);
11770: 'IDS_CAP_STAT_CAP_FINI','LongInt'( 503);
11771: 'IDS_CAP_STAT_PALETTE_BUILD','LongInt'( 504);
11772: 'IDS_CAP_STAT_OPTPAL_BUILD','LongInt'( 505);
11773: 'IDS_CAP_STAT_I_FRAMES','LongInt'( 506);
11774: 'IDS_CAP_STAT_L_FRAMES','LongInt'( 507);
11775: 'IDS_CAP_STAT_CAP_L_FRAMES','LongInt'( 508);
11776: 'IDS_CAP_STAT_CAP_AUDIO','LongInt'( 509);
11777: 'IDS_CAP_STAT_VIDEOCURRENT','LongInt'( 510);
11778: 'IDS_CAP_STAT_VIDEOAUDIO','LongInt'( 511);
11779: 'IDS_CAP_STAT_VIDEOONLY','LongInt'( 512);
11780: 'IDS_CAP_STAT_FRAMESDROPPED','LongInt'( 513);
11781: 'AVICAP32','String 'AVICAP32.dll
11782: end;
11783:
11784: procedure SIRegister_ALFcnnMisc(CL: TPSPascalCompiler);
11785: begin
11786:   Function AlBoolToInt( Value : Boolean ) : Integer
11787:   Function ALMediumPos( LTotal, LBorder, LObject : integer ) : Integer
11788:   Function AlIsValidEmail( const Value : AnsiString ) : boolean
11789:   Function ALLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime ) : TdateTime
11790:   Function ALInc( var x : integer; Count : integer ) : Integer
11791:   function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11792:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11793:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11794:   Function ALIsInteger(const S: AnsiString): Boolean;
11795:   function ALIsDecimal(const S: AnsiString): boolean;
11796:   Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11797:   function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11798:   function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11799:   function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11800:   Function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11801:   Function ALRandomStr1(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11802:   Function ALRandomStr(const aLength: Longint): AnsiString;
11803:   Function ALRandomStrU(const aLength: Longint): String;
11804:   Function ALRandomStrU(const aLength: Longint): String;
11805: end;
11806:
11807: procedure SIRegister_ALJSONDoc(CL: TPSPascalCompiler);
11808: begin
11809:   Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const
11810:   aTrueStr: AnsiString; const aFalseStr : AnsiString)
11811:   end;
11812: procedure SIRegister_ALWindows(CL: TPSPascalCompiler);
11813: begin

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11814: _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11815: +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11816: +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11817: +'; ullAvailExtendedVirtual : Int64; end
11818: TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11819: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11820: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11821: 'INVALID_SET_FILE_POINTER','LongInt'( DWORD ( - 1 ) );
11822: 'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2);
11823: 'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1);
11824: 'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8);
11825: 'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4);
11826: end;
11827:
11828: procedure SIRegister_IPCThrd(CL: TPSPascalCompiler);
11829: begin
11830: SIRegister_THandledObject(CL);
11831: SIRegister_TEvent(CL);
11832: SIRegister_TMutex(CL);
11833: SIRegister_TSharedMem(CL);
11834: 'TRACE_BUF_SIZE','LongInt'( 200 * 1024);
11835: 'TRACE_BUFFER','String 'TRACE_BUFFER
11836: 'TRACE_MUTEX','String 'TRACE_MUTEX
11837: //PTraceEntry', '^TTraceEntry // will not work
11838: SIRegister_TIPCTracer(CL);
11839: 'MAX_CLIENTS','LongInt'( 6 );
11840: 'IPCTIMEOUT','LongInt'( 2000 );
11841: 'IPCBUFFER_NAME','String 'BUFFER_NAME
11842: 'BUFFER_MUTEX_NAME','String 'BUFFER_MUTEX
11843: 'MONITOR_EVENT_NAME','String 'MONITOR_EVENT
11844: 'CLIENT_EVENT_NAME','String 'CLIENT_EVENT
11845: 'CONNECT_EVENT_NAME','String 'CONNECT_EVENT
11846: 'CLIENT_DIR_NAME','String 'CLIENT_DIRECTORY
11847: 'CLIENT_DIR_MUTEX','String 'DIRECTORY_MUTEX
11848: FindClass('TOBJECT'),'EMonitorActive
11849: FindClass('TOBJECT'),'TIPCThread
11850: TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11851: +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11852: +'ach, evClientSwitch, evClientSignal, evClientExit )
11853: TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11854: TClientFlags', 'set of TClientFlag
11855: //PEventData', '^TEventData // will not work
11856: TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11857: +'lag; Flags : TClientFlags; end
11858: TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11859: TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11860: TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11861: //PICEEventInfo', '^TIPCEEventInfo // will not work
11862: TIPCEEventInfo', 'record FID:Integer;FKind:TEventKind;FData:TEventData;end
11863: SIRegister_TIPCEEvent(CL);
11864: //PCClientDirRecords', '^TClientDirRecords // will not work
11865: SIRegister_TCClientDirectory(CL);
11866: TIPCState', '( stInactive, stDisconnected, stConnected )
11867: SIRegister_TIPCThread(CL);
11868: SIRegister_TIPCMonitor(CL);
11869: SIRegister_TIPCCClient(CL);
11870: Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11871: end;
11872:
11873: (*-----*)
11874: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11875: begin
11876: SIRegister_TAIGSMComm(CL);
11877: Function AlgSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11878: Procedure AlgSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
AMessage:AnsiString);
11879: Function AlgSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11880: Function AlgSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11881: function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11882: end;
11883:
11884: procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11885: begin
11886: TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyInfo:Integer;
11887: TALHTTPProtocolVersion', '( HTTPPpv_1_0, HTTPPpv_1_1 )
11888: TALHTTPMethod', '(HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete);
11889: TIInternetScheme', 'integer
11890: TALIPv6Binary', 'array[1..16] of Char;
11891: // TALIPv6Binary = array[1..16] of ansichar;
11892: // TIInternetScheme = Integer;
11893: SIRegister_TALHTTPRequestHeader(CL);
11894: SIRegister_TALHTTPCookie(CL);
11895: SIRegister_TALHTTPCookieCollection(CL);
11896: SIRegister_TALHTTPResponseHeader(CL);
11897: Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11898: Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11899: // Procedure ALExtractHTTPFields(Separators,WhiteSpace,Quotes:TSysCharSet;
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;

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11900: // Procedure ALExtractHeaderFields( Separators,WhiteSpace , Quotes : TSysCharSet; Content : PAnsiChar,
11901: Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11902: Function AlRemoveSchemeFromUrl( aUrl : AnsiString ) : ansiString
11903: Function AlExtractSchemeFromUrl( aUrl : AnsiString ) : TInternetScheme
11904: Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11905: Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11906: Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11907: Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
11908: ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11909: Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
11910: Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11911: Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
11912: Function AlCombineUrl( RelativeUrl,BaseUrl : AnsiString ) : AnsiString;
11913: Function ALCombineUrl1(RelativeUrl,BaseUrl,Anchor : AnsiString;Query:TALStrings) : AnsiString;
11914: Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11915: Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11916: Function ALTryRFC822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11917: Function ALRFC822StrToGMTDateTime( const s : AnsiString ) : TDateTime
11918: Function ALIPv4StrToNumeric( aIPV4Str : ansiString; var aIPV4Num : Cardinal ) : Boolean
11919: Function ALIPv4StrToNumeric( aIPV4 : ansiString ) : Cardinal
11920: Function ALNumericToIPv4Str( aIPV4 : Cardinal ) : ansiString
11921: Function ALZeroIpV6 : TALIPv6Binary
11922: Function ALTryIPv6StrToBinary( aIPV6Str : ansiString; var aIPV6Bin : TALIPv6Binary ) : Boolean
11923: Function ALIPv6StrTobinary( aIPV6 : ansiString ) : TALIPv6Binary
11924: Function ALBinaryToIPv6Str( aIPV6 : TALIPv6Binary ) : ansiString
11925: Function ALBinaryStrToIPv6Binary( aIPV6BinaryStr : ansiString ) : TALIPv6Binary
11926: end;
11927:
11928: procedure SIRegister_ALFcnsHTML(CL: TPSPascalCompiler);
11929: begin
11930: Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
11931: DecodeHTMLText:Bool;
11932: Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11933: Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
11934: Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
11935: Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
11936: Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
11937: useNumRef:bool):AnsiString;
11938: Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11939: Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean) : AnsiString
11940: Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunc(var HtmlContent:AnsiString; const
11941: DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11942: Procedure ALCompactHtmlTagParams( TagParams : TALstrings )
11943: end;
11944:
11945: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
11946: begin
11947: Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
11948: decodeRealName:Bool):AnsiString;
11949: Function ALExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11950: Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
11951: Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11952: Function ALGenerateInternetMessageID : AnsiString;
11953: Function ALGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11954: Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
11955: Function ALDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11956: end;
11957: (*-----*)
11958: procedure SIRegister_ALFcnsWinSock(CL: TPSPascalCompiler);
11959: begin
11960: Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11961: Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
11962: Function ALGetLocalIPs : TALStrings
11963: Function ALGetLocalHostName : AnsiString
11964: end;
11965:
11966: procedure SIRegister_ALFcnsCGI(CL: TPSPascalCompiler);
11967: begin
11968: Procedure ALCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
11969: TALWebResponse;ServerVariables:TALStrings);
11970: Procedure ALCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebResponse; ServerVariables :
11971: TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11972: Procedure ALCGIInitDefaultServerVariables( ServerVariables : TALStrings );
11973: Procedure ALCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
11974: ScriptFileName:AnsiString;Url:AnsiStr;
11975: Procedure ALCGIInitServerVariablesFromWebRequest( WebRequest:TALWebResponse; ServerVariables : TALStrings;
11976: ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11977: Procedure ALCGIEexec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
11978: : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
11979: Procedure ALCGIEexec1( ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
11980: WebRequest : TALISapiRequest;
11981: overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;;

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11975: +'overloadedRequestContentStream:Tstream;var
11976:   ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
11977:   Procedure ALCGIExec2( ScriptName , ScriptFileName , Url , X_REWRITE_URL ,
11978:   InterpreterFilename:AnsiString;WebRequest: TALIsapiRequest; var ResponseContentString : AnsiString;
11979:   ResponseHeader : TALHTTPResponseHeader );
11980: end;
11981: begin
11982:   TStartupInfoA' , 'TStartupInfo
11983:   'SE_CREATE_TOKEN_NAME' , 'String'( 'SeCreateTokenPrivilege
11984:   SE_ASSIGNPRIMARYTOKEN_NAME' , 'String' SeAssignPrimaryTokenPrivilege
11985:   SE_LOCK_MEMORY_NAME' , 'String'( 'SeLockMemoryPrivilege
11986:   SE_INCREASE_QUOTA_NAME' , 'String' SeIncreaseQuotaPrivilege
11987:   SE_UNSOLICITED_INPUT_NAME' , 'String' SeUnsolicitedInputPrivilege
11988:   SE_MACHINE_ACCOUNT_NAME' , 'String' SeMachineAccountPrivilege
11989:   SE_TCB_NAME' , 'String' SeTcbPrivilege
11990:   SE_SECURITY_NAME' , 'String' SeSecurityPrivilege
11991:   SE_TAKE_OWNERSHIP_NAME' , 'String' SeTakeOwnershipPrivilege
11992:   SE_LOAD_DRIVER_NAME' , 'String' SeLoadDriverPrivilege
11993:   SE_SYSTEM_PROFILE_NAME' , 'String' SeSystemProfilePrivilege
11994:   SE_SYSTEMTIME_NAME' , 'String' SeSystemtimePrivilege
11995:   SE_PROF_SINGLE_PROCESS_NAME' , 'String' SeProfileSingleProcessPrivilege
11996:   SE_INC_BASE_PRIORITY_NAME' , 'String' SeIncreaseBasePriorityPrivilege
11997:   SE_CREATE_PAGEFILE_NAME' , 'String' SeCreatePagefilePrivilege
11998:   SE_CREATE_PERMANENT_NAME' , 'String' SeCreatePermanentPrivilege
11999:   SE_BACKUP_NAME' , 'String' SeBackupPrivilege
12000:   SE_RESTORE_NAME' , 'String' SeRestorePrivilege
12001:   SE_SHUTDOWN_NAME' , 'String' SeShutdownPrivilege
12002:   SE_DEBUG_NAME' , 'String' SeDebugPrivilege
12003:   SE_AUDIT_NAME' , 'String' SeAuditPrivilege
12004:   SE_SYSTEM_ENVIRONMENT_NAME' , 'String' SeSystemEnvironmentPrivilege
12005:   SE_CHANGE_NOTIFY_NAME' , 'String' SeChangeNotifyPrivilege
12006:   SE_REMOTE_SHUTDOWN_NAME' , 'String' SeRemoteShutdownPrivilege
12007:   SE_UNDOCK_NAME' , 'String' SeUndockPrivilege
12008:   SE_SYNC_AGENT_NAME' , 'String' SeSyncAgentPrivilege
12009:   SE_ENABLE_DELEGATION_NAME' , 'String' SeEnableDelegationPrivilege
12010:   SE_MANAGE_VOLUME_NAME' , 'String' SeManageVolumePrivilege
12011:   Function AlGetEnvironmentString : AnsiString
12012:   Function ALWinExec32( const FileName, CurrentDir,
12013:   Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12014:   Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer ) : DWORD
12015:   Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer ) : DWORD
12016:   Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean ) : Boolean
12017: end;
12018: begin
12019:   procedure SIRegister_ALFcnFile(CL: TPPSPascalCompiler);
12020:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
12021:   RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
12022:   Function AlCopyDirectory( Directory : ansiString; SubDirectory : Boolean; const
12023:   RemoveEmptySubDirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime ) : Boolean;
12024:   Function ALGetModuleName : ansistring
12025:   Function ALGetModuleFileNameWithoutExtension : ansistring
12026:   Function ALGetFileSize( const AFileName : ansistring ) : int64
12027:   Function ALGetFileVersion( const AFileName : ansistring ) : ansistring
12028:   Function ALGetFileCreationDateTime( const aFileName : Ansistring ) : TDateTime
12029:   Function ALGetFileLastWriteDateTime( const aFileName : Ansistring ) : TDateTime
12030:   Function ALGetFileLastAccessDateTime( const aFileName : Ansistring ) : TDateTime
12031:   Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime )
12032:   Function ALIsDirectoryEmpty( const directory : ansiString ) : boolean
12033:   Function ALFileExists( const Path : ansiString ) : boolean
12034:   Function ALDirectoryExists( const Directory : Ansistring ) : Boolean
12035:   Function ALCreateDir( const Dir : Ansistring ) : Boolean
12036:   Function ALRemoveDir( const Dir : Ansistring ) : Boolean
12037:   Function ALDeletefile( const FileName : Ansistring ) : Boolean
12038:   Function ALRenamefile( const OldName, NewName : ansistring ) : Boolean
12039: end;
12040: begin
12041:   procedure SIRegister_ALFcnMime(CL: TPPSPascalCompiler);
12042:   begin
12043:     NativeInt', 'Integer
12044:     NativeUInt', 'Cardinal
12045:     Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12046:     Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12047:     Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12048:     Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12049:     Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12050:     Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12051:     Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12052:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12053:     Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12054:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12055:     Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12056:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )

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12054: Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12055:   InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12056: Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12057:   InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) :
12058:   + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12059: Procedure ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
12060:   ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal) : NativeInt;
12061: Procedure ALMimeBase64Encode(const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
12062:   OutputBuf:TByteDynArray);
12063: Procedure ALMimeBase64EncodeNoCRLF(const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
12064:   OutputBuffer:TByteDynArray);
12065: Procedure ALMimeBase64EncodeFullLines(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12066:   OutputBuffer:TByteDynArray);
12067: Function ALMimeBase64DecodePartial(const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12068:   OutputBuffer : TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12069: Function ALMimeBase64DecodePartialEnd(out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
12070:   ByteBufferSpace:Cardinal):NativeInt;
12071: Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12072: Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12073: Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12074: Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12075: Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12076: Procedure ALMimeBase64DecodeStream(const InputStream : TStream; const OutputStream : TStream)
12077: 'cALMimeBase64_ENCODED_LINE_BREAK', 'LongInt'( 76);
12078: 'cALMimeBase64_DECODED_LINE_BREAK', 'LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3);
12079: 'cALMimeBase64_BUFFER_SIZE','LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4);
12080: begin
12081:   'cALXMLNodeMaxListSize','LongInt'( Maxint div 16);
12082:   FindClass('TOBJECT'),'TALXMLNode
12083:   FindClass('TOBJECT'),'TALXMLNodeList
12084:   FindClass('TOBJECT'),'TALXMLDocument
12085:   TALXMLParseProcessingInstructionEvent', 'Procedure' ( Sender:TObject; const Target,Data:AnsiString)
12086:   TALXMLParseTextEvent', 'Procedure' ( Sender : TObject; const str: AnsiString)
12087:   TALXMLParseStartElementEvent', 'Procedure' ( Sender : TObject; co'
12088:   + 'nst Name : AnsiString; const Attributes : TALStrings)
12089:   TALXMLParseEndElementEvent', 'Procedure' ( Sender : TObject; const Name : AnsiString)
12090:   TALXmlNodeType', '( ntReserved, ntElement, ntAttribute, ntText,
12091:   + 'ntCData, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument,
12092:   + 'ntDocType, ntDocFragment, ntNotation )
12093:   TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12094:   TALXMLDocOptions', 'set of TALXMLDocOption
12095:   TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12096:   TALXMLParseOptions', 'set of TALXMLParseOption
12097:   TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12098:   PALPointerXMLNodeList', '^TALPointerXMLNodeList // will not work
12099:   SIRегистre_EALXMLDocError(CL);
12100:   SIRегистre_TALXMLNodeList(CL);
12101:   SIRегистre_TALXMLNode(CL);
12102:   SIRегистre_TALXmlElementNode(CL);
12103:   SIRегистre_TALXmlAttributeNode(CL);
12104:   SIRегистre_TALXmlTextNode(CL);
12105:   SIRегистre_TALXmlDocumentNode(CL);
12106:   SIRегистre_TALXmlCommentNode(CL);
12107:   SIRегистre_TALXmlProcessingInstrNode(CL);
12108:   SIRегистre_TALXmlCDataNode(CL);
12109:   SIRегистre_TALXmlEntityRefNode(CL);
12110:   SIRегистre_TALXmlEntityNode(CL);
12111:   SIRегистre_TALXmlDocTypeNode(CL);
12112:   SIRегистre_TALXmlDocFragmentNode(CL);
12113:   SIRегистre_TALXmlNotationNode(CL);
12114:   SIRегистre_TALXMLDocument(CL);
12115:   cALXMLUTF8EncodingStr', 'String 'UTF-8
12116:   cALXMLUTF8HeaderStr', 'String <?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' +#13#10);
12117:   CALNSDelim', 'String ': 
12118:   CALXML', 'String 'xml
12119:   CALVersion', 'String 'version
12120:   CALEncoding', 'String 'encoding
12121:   CALStandalone', 'String 'standalone
12122:   CALDefaultNodeIndent', 'String '
12123:   CALXmlDocument', 'String 'DOCUMENT
12124: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString) : TalXMLDocument
12125: Procedure ALClearXMLDocument(const rootname:AnsiString;xmlrec:TalXMLDocument;const
12126:   EncodingStr:AnsiString);
12127: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildnodeName,
12128:   ChildnodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12129: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
12130:   ChildnodeName, ChildnodeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12131: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
12132:   Recurse : Boolean):TalxmlNode
12133: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
12134:   AttributeName,AttributeValue : AnsiString; const Recurse : Boolean) : TalxmlNode

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12130: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString) :
12131:   AnsiString
12132: end;
12133: procedure SIRegister_TeCanvas(CL: TPSPascalCompiler);
12134: //based on TEEProc, TeCanvas, TEEEngine, TChart
12135: begin
12136:   'TeePiStep','Double').setExtended( Pi / 180.0);
12137:   'TeeDefaultPerspective','LongInt'( 100);
12138:   'TeeMinAngle','LongInt'( 270);
12139:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12140:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ));
12141:   'teeclCream','LongWord( TColor ( $FOFBFF ));
12142:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0AO ));
12143:   'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ));
12144:   'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ));
12145:   'teeclCream','LongWord').SetUInt( TColor ( $FOFBFF ));
12146:   'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0AO ));
12147:   'TA_LEFT','LongInt'( 0);
12148:   'TA_RIGHT','LongInt'( 2);
12149:   'TA_CENTER','LongInt'( 6);
12150:   'TA_TOP','LongInt'( 0);
12151:   'TA_BOTTOM','LongInt'( 8);
12152:   'teePATCOPY','LongInt'( 0);
12153:   'NumCirclePoints','LongInt'( 64);
12154:   'teeDEFAULT_CHARSET','LongInt'( 1);
12155:   'teeANTIALIASED_QUALITY','LongInt'( 4);
12156:   'TA_LEFT','LongInt'( 0);
12157:   'bs_Solid','LongInt'( 0);
12158:   'teepf24Bit','LongInt'( 0);
12159:   'teepfDevice','LongInt'( 1);
12160:   'CM_MOUSELEAVE','LongInt'( 10000);
12161:   'CM_SYSCOLORCHANGE','LongInt'( 10001);
12162:   'DC_BRUSH','LongInt'( 18);
12163:   'DC_PEN','LongInt'( 19);
12164:   teeCOLORREF', 'LongWord
12165:   TLogBrush', record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12166: //TNotifyEvent', 'Procedure ( Sender : TObject)
12167: SIRegister_TFilterRegion(CL);
12168: SIRegister_IFormCreator(CL);
12169: SIRegister_TeeFilter(CL);
12170: //TFilterClass', 'class of TTeeFilter
12171: SIRegister_TFilterItems(CL);
12172: SIRegister_TConvolveFilter(CL);
12173: SIRegister_TBlurFilter(CL);
12174: SIRegister_TTeePicture(CL);
12175: TPenEndStyle', '( esRound, esSquare, esFlat )
12176: SIRegister_TChartPen(CL);
12177: SIRegister_TChartHiddenPen(CL);
12178: SIRegister_TDottedGrayPen(CL);
12179: SIRegister_TDarkGrayPen(CL);
12180: SIRegister_TWhitePen(CL);
12181: SIRegister_TChartBrush(CL);
12182: TTeeView3DSrolled', 'Procedure ( IsHoriz : Boolean)
12183: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12184: SIRegister_TVview3DOptions(CL);
12185: FindClass('TOBJECT'),TTeeCanvas
12186: TTeeTransparency', 'Integer
12187: SIRegister_TTeeBlend(CL);
12188: FindClass('TOBJECT'),TCanvas3D
12189: SIRegister_TTeeShadow(CL);
12190: teeTGradientDirection', '(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )
12191: FindClass('TOBJECT'),TSubGradient
12192: SIRegister_TCustomTeeGradient(CL);
12193: SIRegister_TSubGradient(CL);
12194: SIRegister_TTeeGradient(CL);
12195: SIRegister_TTeeFontGradient(CL);
12196: SIRegister_TTeeFont(CL);
12197: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12198: TCanvasTextAlign', 'Integer
12199: TTeeCanvasHandle', 'HDC
12200: SIRegister_TTeeCanvas(CL);
12201: TPoint3DFloat', record X : Double; Y : Double; Z : Double; end
12202: SIRegister_TFloatXYZ(CL);
12203: TPoint3D', record x : integer; y : integer; z : Integer; end
12204: TRGB', record blue: byte; green: byte; red: byte; end
12205: {TRGB=packed record
12206:   Blue : Byte;
12207:   Green : Byte;
12208:   Red : Byte;
12209:   //$/IFDEF CLX //Alpha : Byte; // Linux end;}
12210:
12211: TTeeCanvasCalcPoints', Function ( x, z : Integer; var P0, P1 :
12212:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12213: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12214: TCanvas3DPlane', '( cpX, cpY, cpZ )
12215: //IInterface', IUnknown
12216: SIRegister_TCanvas3D(CL);

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12217:  SIRegister_TTeeCanvas3D(CL);
12218:  TTrianglePoints', 'Array[0..2] of TPoint;
12219:  TFourPoints', 'Array[0..3] of TPoint;
12220:  Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12221:  Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12222:  Function Point3D( const x, y, z : Integer) : TPoint3D
12223:  Procedure SwapDouble( var a, b : Double)
12224:  Procedure SwapInteger( var a, b : Integer)
12225:  Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12226:  Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12227:  Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12228:  Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12229:  Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12230:  Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12231:  Procedure UnClipCanvas( ACanvas : TCanvas)
12232:  Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12233:  Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12234:  Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12235:  'TeeCharForHeight','String 'W
12236:  'DarkerColorQuantity','Byte').SetUInt( 128);
12237:  'DarkColorQuantity','Byte').SetUInt( 64);
12238:  TButtonGetColorProc', 'Function : TColor
12239:  SIRegister_TTeeButton(CL);
12240:  SIRegister_TButtonColor(CL);
12241:  SIRegister_TComboFlat(CL);
12242:  Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TeeCanvasHandle)
12243:  Function TeePoint( const ax, ay : Integer) : TPoint
12244:  Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12245:  Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12246:  Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12247:  Function OrientRectangle( const R : TRect) : TRect
12248:  Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12249:  Function PolygonBounds( const P : array of TPoint) : TRect
12250:  Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12251:  Function RGBValue( const Color : TColor) : TRGB
12252:  Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12253:  Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12254:  Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12255:  Function TeeCull( const P : TFourPoints) : Boolean;
12256:  Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12257:  TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12258:  Procedure SmoothStretch( Src, Dst : TBitmap);
12259:  Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12260:  Function TeeDistance( const x, y : Double) : Double
12261:  Function TeeLoadLibrary( const FileName : String) : HInst
12262:  Procedure TeeFreeLibrary( hLibModule : HMODULE)
12263:  Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12264: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap)
12265:  Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12266:  SIRegister_ICanvasHyperlinks(CL);
12267:  SIRegister_ICanvasToolTips(CL);
12268:  Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12269: end;
12270:
12271: procedure SIRegister_ovcmisc(CL: TPPascalCompiler);
12272: begin
12273:  TOvcHdc', 'Integer
12274:  TOvcHWND', 'Cardinal
12275:  TOvcHdc', 'HDC
12276:  TOvcHWND', 'HWND
12277:  Function LoadBaseBitmap( lpBitmapName : PChar) : HBITMAP
12278:  Function LoadBaseCursor( lpCursorName : PChar) : HCURSOR
12279:  Function ovCompStruct( const S1, S2, Size : Cardinal) : Integer
12280:  Function DefaultEpoch : Integer
12281:  Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12282:  Procedure FixRealPrim( P : PChar; DC : Char)
12283:  Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer) : string
12284:  Function GetLeftButton : Byte
12285:  Function GetNextDlgItem( Ctrl : TOvcHwnd) : hWnd
12286:  Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte)
12287:  Function GetShiftFlags : Byte
12288:  Function ovCreateRotatedFont( F : TFont; Angle : Integer) : hFont
12289:  Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle; Height:Integer;Ctl3D:Boolean): Integer
12290:  Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet) : string
12291:  Function ovIsForegroundTask : Boolean
12292:  Function ovTrimLeft( const S : string) : string
12293:  Function ovTrimRight( const S : string) : string
12294:  Function ovQuotedStr( const S : string) : string
12295:  Function ovWordCount( const S : string; const WordDelims : TCharSet) : Integer
12296:  Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12297:  Function PtrDiff( const P1, P2 : PChar) : Word
12298:  Procedure PtrInc( var P, Delta : Word)
12299:  Procedure PtrDec( var P, Delta : Word)
12300:  Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer)
12301:  Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer)
12302:  Function ovMinI( X, Y : Integer) : Integer
12303:  Function ovMaxI( X, Y : Integer) : Integer

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12304: Function ovMinL( X, Y : LongInt ) : LongInt
12305: Function ovMaxL( X, Y : LongInt ) : LongInt
12306: Function GenerateComponentName( PF : TWInControl; const Root : string ) : string
12307: Function PartialCompare( const S1, S2 : string ) : Boolean
12308: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12309: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12310: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12311: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
  TransparentColor : TColor )
12312: Procedure DrawTransparentBitmapPrim(DC:TObjcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
  TransparentColor : TColorRef )
12313: Function ovWidthOf( const R : TRect ) : Integer
12314: Function ovHeightOf( const R : TRect ) : Integer
12315: Procedure ovDebugOutput( const S : string )
12316: Function GetArrowWidth( Width, Height : Integer ) : Integer
12317: Procedure StripCharSeq( CharSeq : string; var Str : string )
12318: Procedure StripCharFromEnd( aChr : Char; var Str : string )
12319: Procedure StripCharFromFront( aChr : Char; var Str : string )
12320: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12321: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12322: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12323: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12324: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12325: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12326: Function CreateMetaFile( p1 : PChar ) : HDC
12327: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12328: Function DrawText(hDC:HDC;lpString:PChar;nCount:Integer; var lpRect : TRect; uFormat:UINT):Integer
12329: Function DrawTextS(hDC:HDC;lpString:string;nCount:Integer; var lpRect:TRect; uFormat:UINT):Integer
12330: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12331: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12332: Function SetMapMode( DC : HDC; p2 : Integer ) : Integer
12333: Function SetMetafileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12334: //Function SetPaletteEntries(Palette:HPalette;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12335: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12336: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : BOOL
12337: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12338: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12339: Function StretchBlt(DestDC:HDC;X,Y,Width,Height:Int;SrcDC:HDC;XSrc,YSrc,SrcWidth,
  SrcHeight:Int;Rop:WORD):BOOL
12340: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12341: Function StretchDIBits(DC : HDC; DestX,DestY,DestWidth,DestHeight,SrcX,SrcY,SrcWidth,
  SrcHeight:Int;Bits:int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : WORD) : Integer
12342: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12343: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12344: Function SetSystemPaletteUse( DC : HDC; p2 : UINT ) : UINT
12345: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12346: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12347: Function SetTextAlign( DC : HDC; Flags : UINT ) : UINT
12348: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12349: Function UpdateColors( DC : HDC ) : BOOL
12350: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12351: Function GetviewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12352: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12353: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12354: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12355: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12356: Function MaskBlt(DestDC:HDC; XDest,YDest,Width,Height:Integer; SrcDC : HDC; XScr, YScr : Integer; Mask : HBITMAP;
  xMask, yMask : Integer; Rop : WORD) : BOOL
12357: Function PlgBlt(DestDC:HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,
  yMask:Int):BOOL;
12358: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12359: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12360: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : WORD ) : BOOL
12361: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12362: Function PlayMetafile( DC : HDC; MF : HMETAFILE ) : BOOL
12363: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12364: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12365: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12366: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12367: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12368: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12369: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12370: end;
12371:
12372: procedure SIRegister_ovcfiler(CL: TPSPascalCompiler);
12373: begin
12374:   SIRegister_TOvcAbstractStore(CL);
12375:   //PEXPropInfo', '^TExPropInfo' // will not work
12376:   // TExPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12377:   SIRegister_TOvcPropertyList(CL);
12378:   SIRegister_TOvcDataFiler(CL);
12379:   Procedure UpdateStoredList( AForm : TWInControl; AStoredList : TStrings; FromForm : Boolean )
12380:   Procedure UpdateStoredList( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean )
12381:   Function CreateStoredItem( const CompName, PropName : string ) : string
12382:   Function ParseStoredItem( const Item : string; var CompName, PropName : string ) : Boolean
12383:   //Function GetPropType( PropInfo : PExPropInfo ) : PTypeInfo
12384: end;
12385:
12386: procedure SIRegister_ovccoco(CL: TPSPascalCompiler);

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12387: begin
12388:   'ovsetsize','LongInt'( 16);
12389:   'etSyntax','LongInt'( 0);
12390:   'etSemantic','LongInt'( 1);
12391:   'chCR','Char #13);
12392:   'chLF','Char #10);
12393:   'chLineSeparator',' chCR);
12394:   SIRegister_TCocoError(CL);
12395:   SIRegister_TCommentItem(CL);
12396:   SIRegister_TCommentList(CL);
12397:   SIRegister_TSymbolPosition(CL);
12398: TGenListType', '( glNever, glAlways, glOnError )
12399: TovBitSet', 'set of Integer
12400: //PStartTable', '^TStartTable // will not work
12401: 'TovCharSet', 'set of AnsiChar
12402: TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12403: TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12404: TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12405: TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12406: TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP'
12407:   +'osition; const Data : string; ErrorType : integer)
12408: TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12409: TGetCH', 'Function ( pos : longint ) : char
12410: TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12411:   SIRegister_TCocoRScanner(CL);
12412:   SIRegister_TCocoRGrammar(CL);
12413:   '_EF','Char #0);
12414:   '_TAB','Char').SetString( #09);
12415:   '_CR','Char').SetString( #13);
12416:   '_LF','Char').SetString( #10);
12417:   '_EL','','').SetString( _CR);
12418:   '_EOF','Char').SetString( #26);
12419:   'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12420:   'minErrDist','LongInt'( 2);
12421:   Function ovPadL( S : string; ch : char; L : integer ) : string
12422: end;
12423:
12424: TFormSettings = record
12425:   CurrencyFormat: Byte;
12426:   NegCurrFormat: Byte;
12427:   ThousandSeparator: Char;
12428:   DecimalSeparator: Char;
12429:   CurrencyDecimals: Byte;
12430:   DateSeparator: Char;
12431:   TimeSeparator: Char;
12432:   ListSeparator: Char;
12433:   CurrencyString: string;
12434:   ShortDateFormat: string;
12435:   LongDateFormat: string;
12436:   TimeAMString: string;
12437:   TimePMString: string;
12438:   ShortTimeFormat: string;
12439:   LongTimeFormat: string;
12440:   ShortMonthNames: array[1..12] of string;
12441:   LongMonthNames: array[1..12] of string;
12442:   ShortDayNames: array[1..7] of string;
12443:   LongDayNames: array[1..7] of string;
12444:   TwoDigitYearCenturyWindow: Word;
12445: end;
12446:
12447: procedure SIRegister_OvcFormatSettings(CL: TPSPPascalCompiler);
12448: begin
12449:   Function ovFormatSettings : TFormSettings
12450: end;
12451:
12452: procedure SIRegister_ovcstr(CL: TPSPPascalCompiler);
12453: begin
12454:   'TovcCharSet', 'set of Char
12455:   ovBTable', 'array[0..255] of Byte
12456:   //BTABLE = array[0..$IFDEF UNICODE]{$IFDEF {$HUGE_UNICODE_BMTABLE}}{$FF{$ELSE}{$ENDIF}{$ENDIF}{$ENDIF} of Byte;
12457:   Function BinaryBPChar( Dest : PChar; B : Byte ) : PChar
12458:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12459:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12460:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable)
12461:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12462:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12463:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12464:   Function DatabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12465:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12466:   Function HexLCChar( Dest : PChar; L : LongInt ) : PChar
12467:   Function HexPtrPChar( Dest : PChar; P : TObject ) : PChar
12468:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12469:   Function LoCaseChar( C : Char ) : Char
12470:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12471:   Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12472:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal ) : PChar
12473:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12474:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)

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12475: Function StrStCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12476: Function StrStDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12477: Function StrStInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12478: Function StrStInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12479: Function StrStPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12480: Function StrToLongChar( S : PChar; var I : LongInt ) : Boolean
12481: Procedure TrimAllSpacesPChar( P : PChar )
12482: Function TrimEmbeddedZeros( const S : string ) : string
12483: Procedure TrimEmbeddedZerosPChar( P : PChar )
12484: Function TrimTrailPrimPChar( S : PChar ) : PChar
12485: Function TrimTrailingZeros( const S : string ) : string
12486: Procedure TrimTrailingZerosPChar( P : PChar )
12487: Function UpCaseChar( C : Char ) : Char
12488: Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12489: Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12490: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal ) : Boolean;
12491: end;
12492:
12493:
12494: procedure SIRegister_AfUtils(CL: TPPSPascalCompiler);
12495: begin
12496:   //PraiseFrame', '^TRaiseFrame // will not work
12497:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12498:     +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12499:   Procedure SafeCloseHandle( var Handle : THandle )
12500:   Procedure ExchangeInteger( X1, X2 : Integer )
12501:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12502:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12503:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12504:
12505:   FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12506:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12507:   function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12508:     function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12509:       HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12510:       SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12511:       const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12512:       var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12513:   function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12514:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12515:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12516:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12517:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12518:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12519:   function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12520:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12521:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12522:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12523:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12524:     var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12525:   function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12526:   function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12527:   function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12528:     lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12529:     lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12530:     dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12531:     const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12532:   function GetCurrentHwProfile(var lphwProfileInfo: THWProfileInfo): BOOL; stdcall;
12533:   function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12534:     pSecurityDescriptor: PSecurityDescriptor; nLength:DWORD;var lpnLengthNeeded: DWORD):BOOL; stdcall;
12535:   function GetUserName(lpBuffer: PKOLOChar; var nSize: DWORD): BOOL; stdcall;
12536:   function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLOChar;
12537:     dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12538:   function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLOChar;
12539:     dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12540:   function LookupAccountName(lpSystemName, lpAccountName: PKOLOChar;
12541:     Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLOChar;
12542:     var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12543:   function LookupAccountSid(lpSystemName: PKOLOChar; Sid: PSID;
12544:     Name: PKOLOChar; var cbName: DWORD; ReferencedDomainName: PKOLOChar;
12545:     var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12546:   function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLOChar;
12547:     lpDisplayName: PKOLOChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12548:   function LookupPrivilegeName(lpSystemName: PKOLOChar;
12549:     var lpLuid: TLargeInteger; lpName: PKOLOChar; var cbName: DWORD): BOOL; stdcall;
12550:   function LookupPrivilegeValue(lpSystemName, lpName: PKOLOChar;
12551:     var lpLuid: TLargeInteger): BOOL; stdcall;
12552:   function ObjectCloseAuditAlarm(SubsystemName: PKOLOChar;
12553:     HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12554:   function ObjectDeleteAuditAlarm(SubsystemName: PKOLOChar;
12555:     HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12556:   function ObjectOpenAuditAlarm(SubsystemName: PKOLOChar; HandleId: Pointer;
12557:     ObjectTypeName: PKOLOChar; ObjectName: PKOLOChar; pSecurityDescriptor: PSecurityDescriptor;
12558:     ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12559:     var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: Boolean;
12560:     var GenerateOnClose: BOOL): BOOL; stdcall;
12561:   function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLOChar;
12562:     HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12563:     var Privileges: TPrivilegeSet; AccessGranted: Boolean): BOOL; stdcall;

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12564:     function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12565:     function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12566:     function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12567:                                         ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12568:     function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12569:                           lpBuffer: Pointer; nNumberOfBytesToRead: DWORD): BOOL; stdcall;
12570:     var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD;
12571:     function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12572:                                var phkResult: HKEY): Longint; stdcall;
12573:     function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12574:                            var phkResult: HKEY): Longint; stdcall;
12575:     function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12576:                             Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12577:                             lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12578:                             lpdwDisposition: PDWORD): Longint; stdcall;
12579:     function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12580:     function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12581:     function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12582:                           var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12583:                           lpcbClass: PDWORD; lpftLastWriteTime: PFILETIME): Longint; stdcall;
12584:     function RegEnumKey(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar; cbName: DWORD): Longint; stdcall;
12585:     function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12586:                            var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12587:                            lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12588:     function RegLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12589:     function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12590:     function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12591:                           ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12592:     function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12593:                               lpcbClass: PDWORD; lpReserved: Pointer;
12594:                               lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12595:                               lpcbMaxValueNameLen, lpcbMaxValueLen, lpcbSecurityDescriptor: PDWORD;
12596:                               lpftLastWriteTime: PFILETIME): Longint; stdcall;
12597:     function RegQueryMultipleValues(hKey: HKEY; var ValList;
12598:                                       NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12599:     function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12600:                            lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12601:     function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12602:                               lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12603:     function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12604:                            lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12605:     function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12606:     function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12607:                           lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12608:     function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12609:                           dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12610:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12611:                            Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12612:     function RegUnloadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12613:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12614:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12615:                           dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12616:                           dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12617:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12618:                               pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12619:
12620: Function wAddAtom( lpString : PKOLChar ) : ATOM
12621: Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL ) : THandle
12622: //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12623: lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeOut : DWORD ) : BOOL
12624: //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12625: Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12626: lpString2 : PKOLChar; cchCount2 : Integer ) : Integer
12627: Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12628: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12629: TFNProgressRoutine; lpData : Pointer; pbcancel : PBool; dwCopyFlags : DWORD ) : BOOL
12630: Function w.CreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12631: Function wCreateDirectoryEx(lpTemplateDirectory,
12632: lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttribs):BOOL;
12633: Function wCreateEvent( lpEventAttribs:PSecurityAttrib/bManualReset,
12634: bInitialState:BOOL;lpName:PKOLChar):THandle;
12635: Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
12636: PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD;hTemplateFile:THandle ):THandle
12637: Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; f1Protect,
12638: dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12639: Function wCreateHardLink(lpFileName,
12640: lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL
12641: Function CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle;
12642: Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
12643: nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12644: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
12645: lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
12646: Pointer;lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var
12647: lpProcessInfo:TProcessInformation):BOOL
12648: Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
12649: Longint; lpName : PKOLChar ) : THandle
12650: Function wCreateWaitableTimer(lpTimerAttribs:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLChar):THandle;

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12638: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12639: Function wDeleteFile( lpFileName : PKOLChar ) : BOOL
12640: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12641: //Function
wEnumCalendarInfo( lpCalInfEnumProc:TFNCalInfEnumProc; Locale:LCID; Calendar:CALID; CalType:CALTYPE ):BOOL;
12642: //Function wEnumDateFormats( lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD ) : BOOL
12643: //Function
wEnumResourceNames( hModule:HMODULE; lpType:PKOLChar; lpEnumFunc:ENUMRESNAMEPROC; lParam:Longint ):BOOL;
12644: //Function wEnumResourceTypes( hModule:HMODULE; lpEnumFunc:ENUMRESTYPEPROC; lParam:Longint ):BOOL;
12645: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD ) : BOOL
12646: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD ) : BOOL
12647: //Function wEnumTimeFormats( lpTimeFmtEnumProc:TFNTimeFmtEnumProc; Locale:LCID; dwFlags:DWORD ):BOOL;
12648: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD ) : DWORD
12649: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar )
12650: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12651: Function wFindAtom( lpString : PKOLChar ) : ATOM
12652: Function
wFindFirstChangeNotification( lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD ):THandle;
12653: Function wFindFirstFile( lpfileName : PKOLChar; var lpFindFileData : TWIN32FindData ) : THandle
12654: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFindIndexInfoLevels; lpFindFileData : Pointer;
fSearchOp : TFIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12655: Function wFindNextFile( hFindFile : THandle; var lpFindfileData : TWIN32FindData ) : BOOL
12656: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar ) : HRSRC
12657: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word ) : HRSRC
12658: Function
wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Integer):Integer;
12659: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer ) : DWORD
12660: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar ) : BOOL
12661: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12662: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD ) : BOOL
12663: Function wGetCommandLine : PKOLChar
12664: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD ) : DWORD
12665: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD ) : BOOL
12666: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD ) : DWORD
12667: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer ) : Integer
12668: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12669: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar,
lpDateStr : PKOLChar; cchDate : Integer ) : Integer
12670: //Function wGetDefaultCommConfig( lpszName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD ):BOOL
12671: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12672: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL
12673: Function wGetDriveType( lpRootPathName : PKOLChar ) : UINT
12674: Function wGetEnvironmentStrings : PKOLChar
12675: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD ) : DWORD;
12676: Function wGetFileAttributes( lpFileName : PKOLChar ) : DWORD
12677: //Function
wGetFileAttributesEx( lpFileName:PKOLChar;fInfoLevelId:TGetFileExInfoLevs;lpFileInform:Pointer ):BOOL;
12678: Function wGetFullPathName( lpFileName:PKOLChar;nBufferLeng:WORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar ):DWORD;
12679: //Function wGetLocaleInfo( Locale:LCID; LCTYPE:LCTYPE;lpLCDData:PKOLChar;cchData:Integer ): Integer
12680: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12681: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD ) : DWORD
12682: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12683: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
lpCollectDataTimeout : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12684: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt,
lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12685: Function wGetPrivateProfileInt( lpAppName, lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar ):UINT;
12686: Function
wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12687: Function wGetPrivateProfileSectionNames( lpszReturnBuffer:PKOLChar;nSize:DWORD;lpFileName:PKOLChar ):DWORD;
12688: Function wGetPrivateProfileString( lpAppName, lpKeyName, lpDefault : PKOLChar;lpReturnedStr : PKOLChar,
nSize:DWORD; lpFileName : PKOLChar ) : DWORD
12689: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12690: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12691: Function wGetProfileString(lpAppName,lpKeyName,
lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD;
12692: Function wGetShortPathName( lpszLongPath:PKOLChar;lpszShortPath: PKOLChar; cchBuffer : DWORD ) : DWORD
12693: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo )
12694: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
lpCharType):BOOL
12695: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12696: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar ):UINT
12697: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12698: //Function
wGetTimeFormat(Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12699: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
12700: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
: DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12701: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12702: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12703: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12704: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT

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12705: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12706: Function
12707: wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12708: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12709: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12710: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12711: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12711: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine : TFnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12712: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName:PKOLChar ) : THHandle
12713: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THHandle
12714: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THHandle
12715: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ):THHandle
12716: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THHandle
12717: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12718: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
12718: lpNumberOfEventsRead:DWORD):BOOL;
12719: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12720: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12721: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
12721: lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12722: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
12722: lpNumbOfEventsRead:DWORD):BOOL;
12723: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
12723: : TCoord; var lpReadRegion : TSmallRect ) : BOOL
12724: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12724: DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12725: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12726: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
12726: lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12727: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
12727: lpFilePart:PKOLChar):DWORD;
12728: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12729: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12730: Function wsetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12731: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12732: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12733: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12734: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDData : PKOLChar ) : BOOL
12735: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12736: //Function wUpdateResource(hUpdate:THandle;lpType,
12736: lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12737: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12738: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12739: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
12739: DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12740: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
12740: var lpNumberOfEventsWritten : DWORD ) : BOOL
12741: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
12741: TCoord; var lpWriteRegion : TSmallRect) : BOOL
12742: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12742: DWWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12743: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12744: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12745: Function wWriteProfileSection( lpAppName, lpString : PKOLChar ) : BOOL
12746: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar ) : BOOL
12747: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12748: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12749: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12750: Function wlstrcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar
12751: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12752: Function wlstrlen( lpString : PKOLChar ) : Integer
12753: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruct :
12753: PNetConnectInfoStruct ) : DWORD
12754: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
12754: lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12755: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12755: lpUserName:PKOLChar; dwFlags : DWORD ) : DWORD
12756: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12757: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12758: Function wWNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12759: //Function wWNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12760: //Function wWNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12761: //Function wWNetEnumResource(hEnum:THandle;var lpCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12762: Function wWNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12763: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
12763: : PKOLChar; nNameBufSize : DWORD ) : DWORD
12764: //Function wWNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12765: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12766: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12767: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12767: lpBufferSize:DWORD):DWORD;
12768: Function wWNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12769: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12770: // Function wWNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12771: //Function wWNetUseConnection(hwndOwner:HWND;var
12771: lpNetResource:TNetResource;lpUserID:PKOLChar,lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
12771: lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12772: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;

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12773: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12774: Function wVerFindFile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT ) : DWORD
12775: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12776: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12777: //Function wGetPrivateProfileStruct(lpszSection,
lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12778: //Function wWritePrivateProfileStruct(lpszSection,
lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12779: Function wAddFontResource( FileName : PKOLChar ) : Integer
12780: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : WORD; p3 : PDesignVector ) : Integer
12781: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12782: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12783: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12784: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12785: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC
12786: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
fdwPitchAndFamily:DWORD;lpszFace:PKOLChar ):HFONT
12787: Function wCreateFontIndirect( const p1 : TLogFont ) : HFONT
12788: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV ) : HFONT
12789: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode ) : HDC
12790: Function wCreateMetaFile( pl : PKOLChar ) : HDC
12791: Function wCreateScalableFontResource( pl : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12792: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int,
12793: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFnFontEnumProc; p4 : LPARAM ) : BOOL
12794: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12795: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fnterrmprc:TFNFontEnumProc;lpszData:PKOLChar):Integer;
12796: //Function wEnumICMPprofiles( DC : HDC; ICMProc : TFNICMEnumProc; p3 : LPARAM ) : Integer
12797: //Function wExtTextOut(dc:HDC,X,
Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12798: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12799: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts ) : BOOL
12800: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12801: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12802: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12803: // Function wGetCharacterPlacement(DC: HDC; p2:PKOLChar;p3,p4:BOOL;var p5: TGCPResults;p6:DWORD):DWORD
12804: Function wGetEnhMetaFile( pl : PKOLChar ) : HENHMETAFILE
12805: Function wGetEnhMetaFileDescription( pl : HENHMETAFILE; p2 : UINT; p3 : PKOLChar ) : UINT
12806: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD ) : DWORD
12807: // Function wGetGlyphOutline( DC : HDC; uChar,uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD,
lpvBuffer : Pointer; const lpmat2 : TMat2 ) : DWORD
12808: Function wGetICMProfile( DC : HDC; var Size : DWORD; Name : PKOLChar ) : BOOL
12809: // Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12810: Function wGetMetafile( pl : PKOLChar ) : HMETAFILE
12811: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12812: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12813: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSIZE):BOOL
12814: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSIZE ) : BOOL
12815: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSIZE ) : BOOL
12816: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12817: //Function wGetTextMetrics( DC : HDC; var TM : TTTextMetric ) : BOOL
12818: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12819: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12820: //Function wRemoveFontResourceEx( pl : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12821: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12822: Function wSetICMProfile( DC : HDC; Name : PKOLChar ) : BOOL
12823: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12824: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12825: Function wUpdateICMRegKey( pl : DWORD; p2, p3 : PKOLChar; p4 : UINT ) : BOOL
12826: Function wwgLUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD; p5, p6:Single;p7:Int;p8:PGlyphMetricsFloat ):BOOL
12827: Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12828: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL
12829: //Function
12830: wCallWindowProc(lpPrevWndFunc:TFNWndProc,hWnd:HWND,Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12831: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12832: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode : TDeviceMode; wnd : HWND,
dwFlags : DWORD; lParam : Pointer ) : Longint
12833: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12834: Function wCharLower( lpsz : PKOLChar ) : PKOLChar
12835: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12836: Function wCharNext( lpsz : PKOLChar ) : PKOLChar
12837: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12838: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLChar
12839: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12840: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12841: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12842: Function wCharUpper( lpsz : PKOLChar ) : PKOLChar
12843: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12844: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer ) : Integer
12845: Function wCreateAcceleratorTable( var Accel, Count : Integer ) : HACCEL
12846: //Function wCreateDesktop(lpszDesktop,
lpszDevice:PKOLChar;pDevmode:PDeviceMode,dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12847: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12848: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND

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12849: Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
12850: hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12851: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle DWORD;X,Y,
12852: nWidth, nHeight:Int WndParent:HWNd;hMenu:HMENU,hInstance:HINST;lpParam:Pointer):HWND
12853: //Function wCreateWindowStation(lpWinsta:PKOLChar;dwReserv,
12854: dwDesiredAccess:DWORD;lpsa:PSecurityAttrs):HWINSTA;
12855: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12856: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:LPARAM;lParam:LPARAM):LRESULT;
12857: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ):LRESULT;
12858: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM ) : LRESULT
12859: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
12860: : HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12861: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
12862: : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12863: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12864: Function wDlgDirList(hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFiletype:UINT):Integer;
12865: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Int;uFiletype:UINT):Int;
12866: Function wDlgDirSelectComboboxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer) : BOOL
12867: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12868: //Function wDrawState(dc:HDC;brush:HBRUSH;CBFunc:TFNDrawStateProc;lData:LPARAM;wDat:WPARAM;x,y,cx,
12869: cy:Int;Flags:UINT):BOOL;
12870: Function wDrawText(hdc:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12871: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12872: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12873: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int;var
12874: pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12875: // Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12876: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12877: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12878: Function wGetClipboardFormatName( format : UINT; lpszFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12879: Function wGetDlgItemText( hDlg : HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12880: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12881: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12882: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12883: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12884: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
12885: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12886: //Function wGetTabbedTextExtent( hdc : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
12887: lpnTabStopPositions ) : DWORD
12888: //Function wGetObjectInform(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
12889: lpnLengthNeed:DWORD):BOOL;
12890: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
12891: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT ) : UINT
12892: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12893: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12894: //Function wGetString(hdc:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:LPARAM;nCnT,X,Y,nWidt,
12895: nHeigt:Int):BOOL;
12896: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12897: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12898: Function wIsCharAlpha( ch : KOLChar ) : BOOL
12899: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12900: Function wIsCharLower( ch : KOLChar ) : BOOL
12901: Function wIsCharUpper( ch : KOLChar ) : BOOL
12902: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12903: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12904: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12905: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12906: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12907: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12908: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12909: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12910: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12911: //Function wLoadMenuItemDirect( lpMenuTemplate : Pointer ) : HMENU
12912: Function wLoadString(hInstance:HINST;uID:UINT;lpBuffer:PKOLChar;nBufferMax:Integer):Integer
12913: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12914: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhkl : HKL ) : UINT
12915: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12916: Function wMessageBoxEx( hWnd:HWND;lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12917: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12918: Function wModifyMenu( hMnu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12919: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12920: //?Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12921: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12922: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12923: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD): HDESK
12924: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD): HWINSTA
12925: Function wPeekMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT):BOOL
12926: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12927: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12928: Function wRealGetWindowClass( hWnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
12929: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12930: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12931: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
12932: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12933: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
12934: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle

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12926: Function wSendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12927: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12928: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
12929: lpResultCallBack : TFnSendAsyncProc; dwData : DWORD ) : BOOL
12929: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
1lpdwResult:DWORD): LRESULT
12930: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12931: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12932: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
12933: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12934: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
12935: // Function wSetUserObjectInformation(hObject:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12936: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
12937: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12938: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFnHookProc ) : HHOOK
12939: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
12940: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL
12941: Function wTabbedTextOut(hdc: HDC;X,Y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
1lpnTabStopPositions,nTabOrigin:Int):Longint;
12942: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12943: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12944: Function wVKeyScan( ch : KOLChar ) : SHORT
12945: Function wVKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
12946: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
12947: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12948: Function wwwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
12949:
12950: //TestDrive!
12951: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL
12952: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString( 'ConvertSidToStringSidA
12953: Function GetDomainUserSids( const domainName:String;const userName:String; var foundDomain:String):String;
12954: Function GetLocalUserSidStr( const UserName : string ) : string
12955: Function getPid4User( const domain : string; const user : string; var pid : dword ) : boolean
12956: Function Impersonate2User( const domain : string; const user : string) : boolean
12957: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12958: Function KillProcessbyname( const exename : string; var found : integer ) : integer
12959: Function getWinProcessList : TStringList
12960: end;
12961:
12962: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12963: begin
12964:   'AfMaxSyncSlots','LongInt'( 64 );
12965:   'AfSyncronizeTimeout','LongInt'( 2000 );
12966:   TAfSyncSlotID', 'DWORD
12967:   TAfSyncStatistics', 'record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end;
12968:   TAfSafeSyncEvent', 'Procedure ( ID : TAfSyncSlotID )
12969:   TAfSafeDirectSyncEvent', 'Procedure
12970:   Function AfNewSyncSlot( const AEvent : TAfSafeSyncEvent ) : TAfSyncSlotID
12971:   Function AfReleaseSyncSlot( const ID : TAfSyncSlotID ) : Boolean
12972:   Function AfEnableSyncSlot( const ID : TAfSyncSlotID; Enable : Boolean ) : Boolean
12973:   Function AfValidateSyncSlot( const ID : TAfSyncSlotID ) : Boolean
12974:   Function AfSyncEvent( const ID : TAfSyncSlotID; Timeout : DWORD ) : Boolean
12975:   Function AfDirectSyncEvent( Event : TAfSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
12976:   Function AfIsSyncMethod : Boolean
12977:   Function AfSyncWnd : HWnd
12978:   Function AfSyncStatistics : TAfSyncStatistics
12979:   Procedure AfClearSyncStatistics
12980: end;
12981:
12982: procedure SIRegister_AfComPortCore(CL: TPSPascalCompiler);
12983: begin
12984:   'fBinary','LongWord')($00000001);
12985:   'fParity','LongWord')($00000002);
12986:   'fOutxCtsFlow','LongWord').SetUInt($00000004);
12987:   'fOutxDsrFlow','LongWord')($00000008);
12988:   'fDtrControl','LongWord')($00000030);
12989:   'fDtrControlDisable','LongWord')($00000000);
12990:   'fDtrControlEnable','LongWord')($00000010);
12991:   'fDtrControlHandshake','LongWord')($00000020);
12992:   'fDsrSensitivity','LongWord')($00000040);
12993:   'fTXContinueOnXoff','LongWord')($00000080);
12994:   'fOutX','LongWord')($00000100);
12995:   'fInX','LongWord')($00000200);
12996:   'fErrorChar','LongWord')($00000400);
12997:   'fNull','LongWord')($00000800);
12998:   'fRtsControl','LongWord')($00003000);
12999:   'fRtsControlDisable','LongWord')($00000000);
13000:   'fRtsControlEnable','LongWord')($00001000);
13001:   'fRtsControlHandshake','LongWord')($00002000);
13002:   'fRtsControlToggle','LongWord')($00003000);
13003:   'fAbortOnError','LongWord')($00004000);
13004:   'fDummy2','LongWord')($FFFF8000);
13005:   TafCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13006:   FindClass('TOBJECT'),'EafComPortCoreError
13007:   FindClass('TOBJECT'),'TafComPortCore
13008:   TafComPortCoreEvent', 'Procedure ( Sender : TafComPortCore; Even'
13009:     +tKind : TafCoreEvent; Data : DWORD)
13010:   SIRegister_TAfComPortCoreThread(CL);
13011:   SIRegister_TAfComPortEventThread(CL);

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13012:  SIRegister_TAfComPortWriteThread(CL);
13013:  SIRegister_TAfComPortCore(CL);
13014:  Function FormatDeviceName( PortNumber : Integer ) : string
13015:  end;
13016:
13017:  procedure SIRegister_ApplicationFileIO(CL: TPSPascalCompiler);
13018:  begin
13019:    TAFIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13020:    TAFIOFileExistsEvent', 'Function ( const fileName : String ) : Boolean
13021:    SIRegister_TApplicationFileIO(CL);
13022:    TDataFileCapability', '( dfcRead, dfcWrite )
13023:    TDataFileCapabilities', 'set of TDataFileCapability
13024:    SIRegister_TDataFile(CL);
13025:    //TDataFileClass', 'class of TDataFile
13026:    Function ApplicationFileIODefined : Boolean
13027:    Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13028:    Function FileStreamExists(const fileName: String) : Boolean
13029:    //Procedure Register
13030:  end;
13031:
13032:  procedure SIRegister_ALFBXLib(CL: TPSPascalCompiler);
13033:  begin
13034:    TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13035:      +', uftCstring, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13036:      +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13037:    TALFBXScale', 'Integer
13038:    FindClass('TOBJECT'), 'EALFBXConvertError
13039:    SIRegister_EALFBXError(CL);
13040:    SIRegister_EALFBXException(CL);
13041:    FindClass('TOBJECT'), 'EALFBXGFixError
13042:    FindClass('TOBJECT'), 'EALFBXDSQLError
13043:    FindClass('TOBJECT'), 'EALFBXDynError
13044:    FindClass('TOBJECT'), 'EALFBXBakError
13045:    FindClass('TOBJECT'), 'EALFBXGSecError
13046:    FindClass('TOBJECT'), 'EALFBXLicenseError
13047:    FindClass('TOBJECT'), 'EALFBXGStatError
13048:    //EALFBXExceptionClass', 'class of EALFBXError
13049:    TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13050:      +'37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13051:      +'csEUCJ_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csSOC'
13052:      +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13053:      +'csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13054:      +'SDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13055:      +'_4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13056:      +'8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13057:    TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13058:      +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13059:      +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13060:      +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13061:    TALFBXTransParams', 'set of TALFBXTransParam
13062:    Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13063:    Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13064:    Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13065:    'cALFBXMaxParamLength', 'LongInt'( 125 );
13066:    TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13067:    TALFBXParamsFlags', 'set of TALFBXParamsFlag
13068:    //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13069:    //PALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13070:    TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete, '
13071:      +' stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis'
13072:      +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13073:    SIRegister_TALFBXSQLDA(CL);
13074:    //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13075:    SIRegister_TALFBXPoolStream(CL);
13076:    //PALFBXBlobData', '^TALFBXBlobData // will not work
13077:    TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13078:    //PALFBXArrayDesc', '^TALFBXArrayDesc // will not work
13079:    //TALFBXArrayDesc', 'TISCArrayDesc
13080:    //TALFBXBlobDesc', 'TISCBlobDesc
13081:    //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13082:    //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13083:    SIRegister_TALFBXSQLResult(CL);
13084:    //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13085:    SIRegister_TALFBXSQLParams(CL);
13086:    //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13087:    TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13088:      +'atementType : TALFBXStatementType; end
13089:    FindClass('TOBJECT'), 'TALFBXLibrary
13090:    //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13091:    TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13092:    //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13093:      +' Excep : EALFBXExceptionClass )
13094:    SIRegister_TALFBXLibrary(CL);
13095:    'cALFBXDateOffset', 'LongInt'( 15018 );
13096:    'cALFBXtimeCoeff', 'LongInt'( 864000000 );
13097:    //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double );
13098:    //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp );
13099:    //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13100:    Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word );

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13101: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13102: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp);
13103: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp);
13104: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp);
13105: Function ALFBXEncodeSQLTime( Year : Integer; Month, Day : Integer ) : Integer
13106: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord) : Cardinal
13107:   TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prLgno )
13108:   TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13109: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13110: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13111: end;
13112:
13113: procedure SIRegister_ALFBXClient(CL: TPSPascalCompiler);
13114: begin
13115:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13116:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13117:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13118:     +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13119:     +'teger; First : Integer; CacheThreshold : Integer; end
13120:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13121:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13122:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13123:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13124:     +'_writes : int64; page_fetcheds : int64; page_marks : int64; end
13125:   SIRegister_TALFBXClient(CL);
13126:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13127:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13128:   SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13129:   SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13130:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13131:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13132:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13133:   SIRegister_TALFBXConnectionPoolClient(CL);
13134:   SIRegister_TALFBXEventThread(CL);
13135:   Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13136: end;
13137:
13138: procedure SIRegister_ovcBidi(CL: TPSPascalCompiler);
13139: begin
13140:   _OSVERSIONINFOA = record
13141:     dwOSVersionInfoSize: DWORD;
13142:     dwMajorVersion: DWORD;
13143:     dwMinorVersion: DWORD;
13144:     dwBuildNumber: DWORD;
13145:     dwPlatformId: DWORD;
13146:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13147:   end;
13148:   TOSVersionInfoA', '_OSVERSIONINFOA
13149:   TOSVersionInfo', 'TOSVersionInfoA
13150:   'WS_EX_RIGHT', 'LongWord')($00001000);
13151:   'WS_EX_LEFT', 'LongWord')($00000000);
13152:   'WS_EX_RTLREADING', 'LongWord')($00000200);
13153:   'WS_EX_LTRREADING', 'LongWord')($00000000);
13154:   'WS_EX_LEFTSCROLLBAR', 'LongWord')($00004000);
13155:   'WS_EX_RIGHTSCROLLBAR', 'LongWord')($00000000);
13156:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13157:   'LAYOUTRTL', 'LongWord')($00000001);
13158:   'LAYOUT_BTT', 'LongWord')($00000002);
13159:   'LAYOUT_VBH', 'LongWord')($00000004);
13160:   'LAYOUT_BITMAPORIENTATIONPRESERVED', 'LongWord')($00000008);
13161:   'NOMIRRORBITMAP', 'LongWord')(DWORD($80000000));
13162:   Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13163:   Function GetLayout( dc : hdc ) : DWORD
13164:   Function IsBidi : Boolean
13165:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL
13166:   Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13167:   Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13168:   Function GetPriorityClass( hProcess : THandle ) : DWORD
13169:   Function OpenClipboard( hWndNewOwner : HWND ) : BOOL
13170:   Function CloseClipboard : BOOL
13171:   Function GetClipboardSequenceNumber : DWORD
13172:   Function GetClipboardOwner : HWND
13173:   Function SetClipboardViewer( hWndNewViewer : HWND ) : HWND
13174:   Function GetClipboardViewer : HWND
13175:   Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND ) : BOOL
13176:   Function SetClipboardData( uFormat : UINT; hMem : THandle ) : THandle
13177:   Function GetClipboardData( uFormat : UINT ) : THandle
13178:   Function RegisterClipboardFormat( lpszFormat : PChar ) : UINT
13179:   Function CountClipboardFormats : Integer
13180:   Function EnumClipboardFormats( format : UINT ) : UINT
13181:   Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13182:   Function EmptyClipboard : BOOL
13183:   Function IsClipboardFormatAvailable( format : UINT ) : BOOL
13184:   Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer ) : Integer
13185:   Function GetOpenClipboardWindow : HWND
13186:   Function EndDialog( hDlg : HWND; nResult : Integer ) : BOOL
13187:   Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer ) : HWND
13188:   Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13189:   Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT

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13190: Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar ) : BOOL
13191: Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT ) : BOOL
13192: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer ) : BOOL
13193: Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer ) : UINT
13194: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13195: end;
13196:
13197: procedure SIRegister_DXPUtils(CL: TPSPPascalCompiler);
13198: begin
13199:   Function glExecuteAndWait( cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool ) : Int;
13200:   Function GetTemporaryFilesPath : String
13201:   Function GetTemporaryFileName : String
13202:   Function FindFileInPaths( const fileName, paths : String ) : String
13203:   Function PathsToString( const paths : TStrings ) : String
13204:   Procedure StringToPaths( const pathsString : String; paths : TStrings )
13205:   //Function MacroExpandPath( const aPath : String ) : String
13206: end;
13207:
13208: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPPascalCompiler);
13209: begin
13210:   SIRegister_TALMultiPartBaseContent(CL);
13211:   SIRegister_TALMultiPartBaseContents(CL);
13212:   SIRegister_TALMultiPartBaseStream(CL);
13213:   SIRegister_TALMultipartBaseEncoder(CL);
13214:   SIRegister_TALMultipartBaseDecoder(CL);
13215:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString ) : AnsiString
13216:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13217:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13218: end;
13219:
13220: procedure SIRegister_SmallUtils(CL: TPSPPascalCompiler);
13221: begin
13222:   TdriveSize', 'record FreeS : Int64; TotalsS : Int64; end
13223:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13224:     +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13225:   Function aAllocPadedMem( Size : Cardinal ) : TObject
13226:   Procedure aFreePadedMem( var P : TObject );
13227:   Procedure aFreePadedMem( var P : PChar );
13228:   Function aCheckPadedMem( P : Pointer ) : Byte
13229:   Function aGetPadMemSize( P : Pointer ) : Cardinal
13230:   Function aAllocMem( Size : Cardinal ) : Pointer
13231:   Function aStrLen( const Str : PChar ) : Cardinal
13232:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal ) : PChar
13233:   Function aStrECopy( Dest : PChar; const Source : PChar ) : PChar
13234:   Function aStrCopy( Dest : PChar; const Source : PChar ) : PChar
13235:   Function aStrEnd( const Str : PChar ) : PChar
13236:   Function aStrScan( const Str : PChar; aChr : Char ) : PChar
13237:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal ) : PChar
13238:   Function aPCharLength( const Str : PChar ) : Cardinal
13239:   Function aPCharUpper( Str : PChar ) : PChar
13240:   Function aPCharLower( Str : PChar ) : PChar
13241:   Function aStrCat( Dest : PChar; const Source : PChar ) : PChar
13242:   Function aLastDelimiter( const Delimiters, S : String ) : Integer
13243:   Function aCopyTail( const S : String; Len : Integer ) : String
13244:   Function aInt2Thos( I : Int64 ) : String
13245:   Function aUpperCase( const S : String ) : String
13246:   Function aLowerCase( const S : string ) : String
13247:   Function aCompareText( const S1, S2 : string ) : Integer
13248:   Function aSameText( const S1, S2 : string ) : Boolean
13249:   Function aInt2Str( Value : Int64 ) : String
13250:   Function aStr2Int( const Value : String ) : Int64
13251:   Function aStr2IntDef( const S : string; Default : Int64 ) : Int64
13252:   Function aGetFileExt( const FileName : String ) : String
13253:   Function aGetFilePath( const FileName : String ) : String
13254:   Function aGetFileName( const FileName : String ) : String
13255:   Function aChangeExt( const FileName, Extension : String ) : String
13256:   Function aAdjustLineBreaks( const S : string ) : string
13257:   Function aGetWindowStr( WinHandle : HWND ) : String
13258:   Function aDiskSpace( Drive : String ) : TdriveSize
13259:   Function aFileExists( FileName : String ) : Boolean
13260:   Function aFileSize( FileName : String ) : Int64
13261:   Function aDirectoryExists( const Name : string ) : Boolean
13262:   Function aSysErrorMessage( ErrorCode : Integer ) : string
13263:   Function aShortPathName( const LongName : string ) : string
13264:   Function aGetWindowVer : TWinVerRec
13265:   procedure InitDriveSpacePtr;
13266: end;
13267:
13268: procedure SIRegister_MakeApp(CL: TPSPPascalCompiler);
13269: begin
13270:   aZero','LongInt'( 0 );
13271:   'makeappDEF','LongInt'( - 1 );
13272:   'CS_VREDRAW','LongInt'( DWORD ( 1 ) );
13273:   'CS_HREDRAW','LongInt'( DWORD ( 2 ) );
13274:   'CS_KEYCVTWINDOW','LongInt'( 4 );
13275:   'CS_DBLCLKS','LongInt'( 8 );
13276:   'CS_OWNDC','LongWord')( $20 );
13277:   'CS_CLASSDC','LongWord')( $40 );
13278:   'CS_PARENTDC','LongWord')( $80 );

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13279: 'CS_NOKEYCVT', 'LongWord')( $100);
13280: 'CS_NOCLOSE', 'LongWord')( $200);
13281: 'CS_SAVEBITS', 'LongWord')( $800);
13282: 'CS_BYTEALIGNCLIENT', 'LongWord')( $1000);
13283: 'CS_BYTEALIGNWINDOW', 'LongWord')( $2000);
13284: 'CS_GLOBALCLASS', 'LongWord')( $4000);
13285: 'CS_IME', 'LongWord')( $10000);
13286: 'CS_DROPSHADOW', 'LongWord')( $20000);
13287: //TPanelFunc', '^TPanelFunc // will not work
13288: TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13289: TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13290: TFontLooks', 'set of TFontLook
13291: TMessagefunc', 'function(hWnd, iMsg, wParam, lParam: Integer): Integer
13292: Function SetWinClass(const ClassName: String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13293: Function SetWinClass0( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13294: Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer ) : Word
13295: Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13296: Procedure RunMsgLoop( Show : Boolean)
13297: Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13298: Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int;
13299: Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13300: Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13301: Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Cardinal;Style:TPanelStyle):Int;
13302: Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13303: Function id4menu( a, b : Byte; c : Byte; d : Byte) : Cardinal
13304: Procedure DoInitMakeApp //set first to init formclasscontrol!
13305: end;
13306:
13307: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13308: begin
13309:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13310:     + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13311:   TScreenSaverOptions', 'set of TScreenSaverOption
13312: 'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13313: TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13314: SIRegister_TScreenSaver(CL);
13315: //Procedure Register
13316: Procedure SetScreenSaverPassword
13317: end;
13318:
13319: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13320: begin
13321:   FindClass('TOBJECT'), 'TXCollection
13322:   SIRegister_EFilerException(CL);
13323:   SIRegister_TXCollectionItem(CL);
13324: //TXCollectionItemClass', 'class of TXCollectionItem
13325:   SIRegister_TXCollection(CL);
13326: Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13327: Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13328: Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13329: Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13330: Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13331: Function GetXCollectionItemClassesList( baseClass : TXCollectionitemClass ) : TList
13332: end;
13333:
13334: procedure SIRegister_OPENGL(CL: TPSPascalCompiler);
13335: begin
13336:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13337:   Procedure xglMapTexCoordToNull
13338:   Procedure xglMapTexCoordToMain
13339:   Procedure xglMapTexCoordToSecond
13340:   Procedure xglMapTexCoordToDual
13341:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13342:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13343:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13344:   Procedure xglBeginUpdate
13345:   Procedure xglEndUpdate
13346:   Procedure xglPushState
13347:   Procedure xglPopState
13348:   Procedure xglForbidSecondTextureUnit
13349:   Procedure xglAllowSecondTextureUnit
13350:   Function xglGetBitWiseMapping : Cardinal
13351: end;
13352:
13353: procedure SIRegister_VectorLists(CL: TPSPascalCompiler);
13354: begin
13355:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory )
13356:   TBaseListOptions', 'set of TBaseListOption
13357:   SIRegister_TBaseList(CL);
13358:   SIRegister_TBaseVectorList(CL);
13359:   SIRegister_TAffineVectorList(CL);
13360:   SIRegister_TVectorList(CL);
13361:   SIRegister_TTexPointList(CL);
13362:   SIRegister_TXIntegerList(CL);
13363: //PSingleArrayList', '^TSingleArrayList // will not work
13364:   SIRegister_TSingleList(CL);

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13365:  SIRegister_TByteList(CL);
13366:  SIRegister_TQuaternionList(CL);
13367:  Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13368:  Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13369:  Procedure FastQuickSortLists(startIndex,
13370:    endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13371: end;
13372: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13373: begin
13374:  Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13375:  Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13376:  Procedure ConvertStripToList2(const strip:TAffineVectorList;const
13377:    indices:TIntegerList;list:TAffineVectorList);
13378:  Procedure ConvertIndexedListToList( const data:TAffineVectlist;const
13379:    indices:TIntegerList;list:TAffineVectorList );
13380:  Function BuildVectorCountOptimizedIndices( const vertices:TAffineVectorList; const
13381:    normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList;
13382:  Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13383:  Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13384:  Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList );
13385:  Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList;
13386:  Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList );
13387:  Procedure RemapIndices( indices, indicesMap : TIntegerList );
13388:  Procedure UnifyTrianglesWinding( indices : TIntegerList );
13389:  Procedure InvertTrianglesWinding( indices : TIntegerList );
13390:  Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList;
13391:  Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
13392:    edgesTriangles : TIntegerList ) : TIntegerList;
13393:  Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single );
13394:  Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):TPersistentObjectList;
13395:  Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer );
13396:  Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList;
13397:    normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent );
13398: end;
13399: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13400: begin
13401:  Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte );
13402:  Procedure FreeMemAndNil( var P : TObject );
13403:  Function PCharOrNil( const S : string ) : PChar;
13404:  SIRegister_TJclReferenceMemoryStream(CL);
13405:  FindClass('TOBJECT','EJclVMTError');
13406:  {Function GetVirtualMethodCount( AClass : TClass ) : Integer;
13407:   Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer;
13408:   Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer );
13409:   PDynamicIndexList', '^TDynamicIndexList' // will not work;
13410:   PDynamicAddressList', '^TDynamicAddressList' // will not work;
13411:   Function GetDynamicMethodCount( AClass : TClass ) : Integer;
13412:   Function GetDynamicIndexList( AClass : TClass ) : PDynamicIndexList;
13413:   Function GetDynamicAddressList( AClass : TClass ) : PDynamicAddressList;
13414:   Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean;
13415:   Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer;
13416:   Function GetInitTable( AClass : TClass ) : PTypeInfo;
13417:   PFieldEntry', '^TFieldEntry // will not work;
13418:   TFieldEntry', 'record OffSet : Integer; IDX : Word; Name : ShortString; end;
13419:   Function JIsClass( Address : Pointer ) : Boolean;
13420:   Function JIsObject( Address : Pointer ) : Boolean;
13421:   Function GetImplementorOfInterface( const I : IInterface ) : TObject;
13422:   TDigitCount', 'Integer;
13423:   SIRegister_TJclNumericFormat(CL);
13424:   Function JExecute( const CommandLine:string;OutputLineCallback:TTextHandler;RawOutput:Bool;AbortPtr:PBool ):Cardinal;
13425:   Function ReadKey : Char //to and from the DOS console !
13426:   TModuleHandle', 'HINST;
13427:   //TModuleHandle', 'Pointer;
13428:   'INVALID_MODULEHANDLE_VALUE', 'LongInt'( TModuleHandle ( 0 ) );
13429:   Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean;
13430:   Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean;
13431:   Procedure UnloadModule( var Module : TModuleHandle );
13432:   Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer;
13433:   Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer;
13434:   Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13435:   Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13436:   FindClass('TOBJECT','EJclConversionError');
13437:   Function JStrToBoolean( const S : string ) : Boolean;
13438:   Function JBooleanToStr( B : Boolean ) : string;
13439:   Function JIntToBool( I : Integer ) : Boolean;
13440:   Function JBoolToInt( B : Boolean ) : Integer;
13441:   'ListSeparator','String ';
13442:   'ListSeparator','String ';
13443:   Procedure ListAddItems( var List : string; const Separator, Items : string );
13444:   Procedure ListIncludeItems( var List : string; const Separator, Items : string );
13445:   Procedure ListRemoveItems( var List : string; const Separator, Items : string );

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13446: Procedure ListDelItem( var List : string; const Separator : string; const Index : Integer)
13447: Function ListItemCount( const List, Separator : string) : Integer
13448: Function ListGetItem( const List, Separator : string; const Index : Integer) : string
13449: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13450: Function ListItemIndex( const List, Separator, Item : string) : Integer
13451: Function SystemTOBJECTInstance : LongWord
13452: Function IsCompiledWithPackages : Boolean
13453: Function JJclGUIDToString( const GUID : TGUID ) : string
13454: Function JJclStringToGUID( const S : string ) : TGUID
13455: SIRegister_TJclIntrfCriticalSection(CL);
13456: SIRegister_TJclSimpleLog(CL);
13457: Procedure InitSimpleLog( const ALogFileNmae : string )
13458: end;
13459:
13460: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13461: begin
13462:   FindClass('TOBJECT','EJclBorRADException'
13463:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )'
13464:   TJclBorRADToolEdition', '( deOPEN, dePRO, desVR )'
13465:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )'
13466:   TJclBorRADToolPath', 'string
13467:   'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13468:   'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11);
13469:   'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5 );
13470:   BorRADToolRepositoryPagesSection','String 'Repository Pages
13471:   BorRADToolRepositoryDialogsPage','String 'Dialogs
13472:   BorRADToolRepositoryFormsPage','String 'Forms
13473:   BorRADToolRepositoryProjectsPage','String 'Projects
13474:   BorRADToolRepositoryDataModulesPage','String 'Data Modules
13475:   BorRADToolRepositoryObjectType','String 'Type
13476:   BorRADToolRepositoryFormTemplate','String 'FormTemplate
13477:   BorRADToolRepositoryProjectTemplate','String 'ProjectTemplate
13478:   BorRADToolRepositoryObjectName','String 'Name
13479:   BorRADToolRepositoryObjectPage','String 'Page
13480:   BorRADToolRepositoryObjectIcon','String 'Icon
13481:   BorRADToolRepositoryObjectDescr','String 'Description
13482:   BorRADToolRepositoryObjectAuthor','String 'Author
13483:   BorRADToolRepositoryObjectAncestor','String 'Ancestor
13484:   BorRADToolRepositoryObjectDesigner','String 'Designer
13485:   BorRADToolRepositoryDesignerDfm','String 'dfm
13486:   BorRADToolRepositoryDesignerXfm','String 'xmf
13487:   BorRADToolRepositoryObjectNewForm','String 'DefaultNewForm
13488:   BorRADToolRepositoryObjectMainForm','String 'DefaultMainForm
13489:   SourceExtensionDelphiPackage','String '.dpk
13490:   SourceExtensionBCBPackage','String '.bpk
13491:   SourceExtensionDelphiProject','String '.dpr
13492:   SourceExtensionBCBProject','String '.bpr
13493:   SourceExtensionBDSProject','String '.bdsproj
13494:   SourceExtensionDProject','String '.dproj
13495:   BinaryExtensionPackage','String '.bpl
13496:   BinaryExtensionLibrary','String '.dll
13497:   BinaryExtensionExecutable','String '.exe
13498:   CompilerExtensionDCP','String '.dcp
13499:   CompilerExtensionBPI','String '.bpi
13500:   CompilerExtensionLIB','String '.lib
13501:   CompilerExtensionTDS','String '.tds
13502:   CompilerExtensionMAP','String '.map
13503:   CompilerExtensionDRC','String '.drc
13504:   CompilerExtensionDEF','String '.def
13505:   SourceExtensionCPP','String '.cpp
13506:   SourceExtensionH','String '.h
13507:   SourceExtensionPAS','String '.pas
13508:   SourceExtensionDFM','String '.dfm
13509:   SourceExtensionXFM','String '.xfm
13510:   SourceDescriptionPAS','String 'Pascal source file
13511:   SourceDescriptionCPP','String 'C++ source file
13512:   DesignerVCL','String 'VCL
13513:   DesignerCLX','String 'CLX
13514:   ProjectTypePackage','String 'package
13515:   ProjectTypeLibrary','String 'library
13516:   ProjectTypeProgram','String 'program
13517:   Personality32bit','String '32 bit
13518:   Personality64Bit','String '64 bit
13519:   PersonalityDelphi','String 'Delphi
13520:   PersonalityDelphiDotNet','String 'Delphi.net
13521:   PersonalityBCB','String 'C++Builder
13522:   PersonalityCSB','String 'C#Builder
13523:   PersonalityVB','String 'Visual Basic
13524:   PersonalityDesign','String 'Design
13525:   PersonalityUnknown','String 'Unknown personality
13526:   PersonalityBDS','String 'Borland Developer Studio
13527:   DOFDirectoriesSection','String 'Directories
13528:   DOFUnitOutputDirKey','String 'UnitOutputDir
13529:   DOFSearchPathName','String 'SearchPath
13530:   DOFConditionals','String 'Conditionals
13531:   DOFLinkerSection','String 'Linker
13532:   DOFPackagesKey','String 'Packages
13533:   DOFCompilerSection','String 'Compiler
13534:   DOFPackageNoLinkKey','String 'PackageNoLink

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13535: DOFAdditionalSection', 'String 'Additional
13536: DOFOptionsKey', 'String 'Options
13537: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13538:   +'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13539:   +'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13540: TJclBorPersonalities', 'set of TJclBorPersonality
13541: TJclBorDesigner', '( bdVCL, bdCLX )
13542: TJclBorDesigners', 'set of TJclBorDesigner
13543: TJclBorPlatform', '( bp32bit, bp64bit )
13544: FindClass('TOBJECT'), 'TJclBorRADToolInstallation
13545: SIRegister_TJclBorRADToolInstallationObject(CL);
13546: SIRegister_TJclBorlandOpenHelp(CL);
13547: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13548: TJclHelp2Objects', 'set of TJclHelp2Object
13549: SIRegister_TJclHelp2Manager(CL);
13550: SIRegister_TJclBorRADToolIdeTool(CL);
13551: SIRegister_TJclBorRADToolIdePackages(CL);
13552: SIRegister_IJclCommandLineTool(CL);
13553: FindClass('TOBJECT'), 'EJclCommandLineToolError
13554: SIRegister_TJclCommandLineTool(CL);
13555: SIRegister_TJclBorlandCommandLineTool(CL);
13556: SIRegister_TJclBCC32(CL);
13557: SIRegister_TJclDCC32(CL);
13558: TJclDCC', 'TJclDCC32
13559: SIRegister_TJclBpr2Mak(CL);
13560: SIRegister_TJclBorlandMake(CL);
13561: SIRegister_TJclBorRADToolPalette(CL);
13562: SIRegister_TJclBorRADToolRepository(CL);
13563: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13564: TCommandLineTools', 'set of TCommandLineTool
13565: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13566: SIRegister_TJclBorRADToolInstallation(CL);
13567: SIRegister_TJclBCCInstallation(CL);
13568: SIRegister_TJclDelphiInstallation(CL);
13569: SIRegister_TJclDCCIL(CL);
13570: SIRegister_TJclBDSInstallation(CL);
13571: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13572: SIRegister_TJclBorRADToolInstallations(CL);
13573: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13574: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13575: Function IsDelphiPackage( const FileName : string ) : Boolean
13576: Function IsDelphiProject( const FileName : string ) : Boolean
13577: Function IsBCBPackage( const FileName : string ) : Boolean
13578: Function IsBCBProject( const FileName : string ) : Boolean
13579: Procedure GetDPRFileInfo(const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString);
13580: Procedure GetBPRFileInfo(const BPRFileName:string;out BinaryFileName:string;const Descript:PString);
13581: Procedure GetDPKFileInfo(const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13582: Procedure GetBPKFileInfo(const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13583: function SamePath(const Path1, Path2: string): Boolean;
13584: end;
13585:
13586: procedure SIRegister_JclFileUtils_max(CL: TPSpascalCompiler);
13587: begin
13588:   'ERROR_NO_MORE_FILES', 'LongInt'( 18 );
13589:   //Function stat64( FileName: PChar; var StatBuffer : TStatBuf64 ) : Integer
13590:   //Function fstat64( FileDes: Integer; var StatBuffer : TStatBuf64 ) : Integer
13591:   //Function lstat64( FileName: PChar; var StatBuffer : TStatBuf64 ) : Integer
13592:   'LPathSeparator', 'String '/'
13593:   'LDirDelimiter', 'String '
13594:   'LDirSeparator', 'String '
13595:   'JXPathDevicePrefix', 'String '\\.\\
13596:   'JXPathSeparator', 'String \
13597:   'JXDirDelimiter', 'String \
13598:   'JXDirSeparator', 'String ';
13599:   'JXPathUncPrefix', 'String \
13600:   'faNormalFile', 'LongWord')($00000080);
13601:   // 'faUnixSpecific', 'faSymLink';
13602:   JXTCompactPath', '( cpCenter, cpEnd )
13603:   '_WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13604:   + 'tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime :'
13605:   + ' TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13606:   TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13607:   WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13608:
13609: Function jxPathAddSeparator( const Path : string ) : string
13610: Function jxPathAddExtension( const Path, Extension : string ) : string
13611: Function jxPathAppend( const Path, Append : string ) : string
13612: Function jxPathBuildRoot( const Drive : Byte) : string
13613: Function jxPathCanonicalize( const Path : string ) : string
13614: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13615: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13616: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
13617: Function jxPathExtractFileDirFixed( const S : string ) : string
13618: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13619: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13620: Function jxPathGetDepth( const Path : string ) : Integer
13621: Function jxPathGetLongName( const Path : string ) : string

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13622: Function jxPathGetShortName( const Path : string ) : string
13623: Function jxPathGetLongName( const Path : string ) : string
13624: Function jxPathGetShortName( const Path : string ) : string
13625: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13626: Function jxPathGetTempPath : string
13627: Function jxPathIsAbsolute( const Path : string ) : Boolean
13628: Function jxPathIsChild( const Path, Base : string ) : Boolean
13629: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13630: Function jxPathIsUNC( const Path : string ) : Boolean
13631: Function jxPathRemoveSeparator( const Path : string ) : string
13632: Function jxPathRemoveExtension( const Path : string ) : string
13633: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13634: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13635: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13636: JxTFileListOptions', 'set of TFileListOption
13637: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13638: TfileHandler', 'Procedure ( const FileName : string )
13639: TfileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec )
13640: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13641: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFileMatchFunc):Bool;
13642: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13643: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13644: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13645: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13646: Procedure jxEnumFiles(const Path:string; HandleFile:TfileHandlerEx;
RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13647: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TfileHandler;const
IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13648: Procedure jxCreatEmptyFile( const FileName : string )
13649: Function jxCloseVolume( var Volume : THandle ) : Boolean
13650: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13651: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13652: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13653: Function jxDelTree( const Path : string ) : Boolean
13654: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13655: Function jxDiskInDrive( Drive : Char ) : Boolean
13656: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13657: Function jxFileCreateTemp( var Prefix : string ) : THandle
13658: Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13659: Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13660: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13661: Function jxFileExists( const FileName : string ) : Boolean
13662: Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13663: Function jxFileRestore( const FileName : string ) : Boolean
13664: Function jxGetBackupFileName( const FileName : string ) : string
13665: Function jxIsBackupFileName( const FileName : string ) : Boolean
13666: Function jxFileGetDisplayName( const FileName : string ) : string
13667: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13668: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13669: Function jxFileGetSize( const FileName : string ) : Int64
13670: Function jxFileGetTempName( const Prefix : string ) : string
13671: Function jxFileGetType( const FileName : string ) : string
13672: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13673: Function jxForceDirectories( Name : string ) : Boolean
13674: Function jxGetDirectorySize( const Path : string ) : Int64
13675: Function jxGetDriveTypeStr( const Drive : Char ) : string
13676: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13677: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13678: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13679: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13680: Function jxGetFileInfo( const FileName : string ) : TSearchRec;
13681: //Function GetFileStatus(const FileName:string,out StatBuf:TStatBuf64;const
ResolveSymLinks:Boolean):Integer
13682: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13683: Function jxGetFileLastWrite( const FName : string; out LocalTime : TDateTime ) : Boolean;
13684: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13685: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13686: Function jxGetFileCreation( const FName : string ) : TFileTime;
13687: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13688: Function jxGetFileLastWrite( const FName : string; out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13689: Function jxGetFileLastWrite1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13690: Function jxGetFileLastWrite2( const FName : string; ResolvesSymLinks : Boolean ) : Integer;
13691: Function jxGetFileLastAccess( const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool): Bool;
13692: Function jxGetFileLastAccess1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13693: Function jxGetFileLastAccess2(const FName:string; ResolveSymLinks:Boolean): Integer;
13694: Function jxGetFileLastAttrChange(const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13695: Function jxGetFileLastAttrChange1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool):Bool;
13696: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks:Boolean): Integer;
13697: Function jxGetModulePath( const Module : HMODULE ) : string
13698: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13699: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13700: Function jxGetSizeOfFile2( Handle : THHandle ) : Int64;
13701: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileAttributeData
13702: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean
13703: Function jxIsRootDirectory( const CanonicFileName : string ) : Boolean
13704: Function jxLockVolume( const Volume : string; var Handle : THHandle ) : Boolean
13705: Function jxOpenVolume( const Drive : Char ) : THHandle

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13706: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
13707: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
13708: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
13709: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
13710: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
13711: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
13712: Procedure jxShredFile( const FileName : string; Times : Integer )
13713: Function jxUnlockVolume( var Handle : THandle ) : Boolean
13714: Function jxCreatSymbolicLink( const Name, Target : string ) : Boolean
13715: Function jxSymbolicLinkTarget( const Name : string ) : string
13716: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )
13717: SIRegister_TJclCustomFileAttrMask(CL);
13718: SIRegister_TJclFileAttributeMask(CL);
13719: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13720: +'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)
13721: TFileSearchOptions', 'set of TFileSearchOption
13722: TFileSearchTaskID', 'Integer
13723: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc'
13724: +'hTaskID; const Aborted : Boolean)
13725: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13726: SIRegister_IJclFileEnumerator(CL);
13727: SIRegister_TJclFileEnumerator(CL);
13728: Function JxFileSearch : IJclfileEnumerator
13729: JxTFileFlags', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )
13730: JxTFileFlags', 'set of TFfileFlag
13731: FindClass('TOBJECT'), 'EJclFileVersionInfoError
13732: SIRegister_TJclFileVersionInfo(CL);
13733: Function jxOSIdentToString( const OSIdent : DWORD ) : string
13734: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
13735: Function jxVersionResourceAvailable( const FileName : string ) : Boolean
13736: TFileVersionFormat', '( vfMajorMinor, vfFull )
13737: Function jxFormatVersionString( const HiV, LoV : Word ) : string;
13738: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13739: //Function FormatVersionString2( const FileInfo : TVSFixedFileInfo; VersionFormat:TFileVersionFormat):str
13740: //Procedure VersionExtractFileInfo(const FileInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13741: //Procedure VersionExtractProductInfo(const FileInfo:TVSFixedFileInfo;var Major,Minor,Build,
13742: Revision:Word);
13742: //Function VersionFixedFileInfo( const FileName : string; var FileInfo : TVSFixedFileInfo ) : Boolean
13743: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
13744: NotAvailableText : string ) : string
13744: SIRegister_TJclTempFileStream(CL);
13745: FindClass('TOBJECT'), 'TJclCustomFileMapping
13746: SIRegister_TJclFileMappingView(CL);
13747: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13748: SIRegister_TJclCustomFileMapping(CL);
13749: SIRegister_TJclFileMapping(CL);
13750: SIRegister_TJclSwapFileMapping(CL);
13751: SIRegister_TJclFileMappingStream(CL);
13752: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13753: //TPCharArray', '^TPCharArray // will not work
13754: SIRegister_TJclMappedTextReader(CL);
13755: SIRegister_TJclFileMaskComparator(CL);
13756: FindClass('TOBJECT'), 'EJclPathError
13757: FindClass('TOBJECT'), 'EJclFileUtilsError
13758: FindClass('TOBJECT'), 'EJclTempFileStreamError
13759: FindClass('TOBJECT'), 'EJclTempFileStreamError
13760: FindClass('TOBJECT'), 'EJclFileMappingError
13761: FindClass('TOBJECT'), 'EJclFileMapViewError
13762: Function jxPathGetLongName2( const Path : string ) : string
13763: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13764: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean
13765: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13766: Function jxWin32RestoreFile( const FileName : string ) : Boolean
13767: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13768: Procedure jxPathListAddItems( var List : string; const Items : string )
13769: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13770: Procedure jxPathListDeleteItems( var List : string; const Items : string )
13771: Procedure jxPathListDeleteItem( var List : string; const Index : Integer )
13772: Function jxPathListItemCount( const List : string ) : Integer
13773: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13774: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13775: Function jxPathListItemIndex( const List, Item : string ) : Integer
13776: Function jxParamName(Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string;
13777: Function jxParamValue(Index : Integer; const Separator : string; TrimValue : Boolean) : string;
13778: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
13779: AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13780: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
13781: AllowedPrefixCharacters : string ) : Integer
13782: end;
13783: procedure SIRegister_FileUtil(CL: TPPascalCompiler);
13784: begin
13784: 'UTF8FileHeader','String #$ef#$bb#$bf';
13785: Function lCompareFilenames( const Filename1, Filename2 : string ) : integer
13786: Function lCompareFilenamesIgnoreCase( const Filename1, Filename2 : string ) : integer
13787: Function lCompareFilenames( const Filename1, Filename2 : string; ResolveLinks : boolean ) : integer
13788: Function lCompareFilenames(Filename1:PChar;Len1:int;Filename2:PChar;Len2:int;ResolveLinks:boolean):int;
13789: Function lFilenameIsAbsolute( const TheFilename : string ) : boolean
13790: Function lFilenameIsWinAbsolute( const TheFilename : string ) : boolean

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13791: Function lFilenameIsUnixAbsolute( const TheFilename : string ) : boolean
13792: Procedure lCheckIfFileIsExecutable( const AFilename : string )
13793: Procedure lCheckIfFileIsSymlink( const AFilename : string )
13794: Function lFileIsReadable( const Afilename : string ) : boolean
13795: Function lFileIsWritable( const Afilename : string ) : boolean
13796: Function lFileIsText( const Afilename : string ) : boolean
13797: Function lFileIsText( const Afilename : string; out FileReadable : boolean ) : boolean
13798: Function lFileIsExecutable( const Afilename : string ) : boolean
13799: Function lFileIsSymlink( const Afilename : string ) : boolean
13800: Function lFileIsHardLink( const Afilename : string ) : boolean
13801: Function lFileSize( const Filename : string ) : int64;
13802: Function lGetFileDescription( const Afilename : string ) : string
13803: Function lReadAllLinks( const Filename : string; ExceptionOnError : boolean ) : string
13804: Function lTryReadAllLinks( const Filename : string ) : string
13805: Function lDirPathExists( const FileName : String ) : Boolean
13806: Function lForceDirectory( DirectoryName : string ) : boolean
13807: Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13808: Function lProgramDirectory : string
13809: Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13810: Function lExtractFileNameOnly( const Afilename : string ) : string
13811: Function lExtractFileNameWithoutExt( const Afilename : string ) : string
13812: Function lCompareFileExt( const Filename, Ext : string; CaseSensitive : boolean ) : integer;
13813: Function lCompareFileExt( const Filename, Ext : string ) : integer;
13814: Function lFilenameIsPascalUnit( const Filename : string ) : boolean
13815: Function lAppendPathDelim( const Path : string ) : string
13816: Function lChompPathDelim( const Path : string ) : string
13817: Function lTrimFilename( const Afilename : string ) : string
13818: Function lCleanAndExpandFilename( const Filename : string ) : string
13819: Function lCleanAndExpandDirectory( const Filename : string ) : string
13820: Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13821: Function lCreateRelativePath( const Filename, BaseDirectory : string; UsePointDirectory : boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
13822: Function lCreateAbsolutePath( const Filename, BaseDirectory : string ) : string
13823: Function lFileIsInPath( const Filename, Path : string ) : boolean
13824: Function lFileIsInDirectory( const Filename, Directory : string ) : boolean
13825: TSearchFileInPathFlag', '( sffDontSearchInBasePath, sffSearchLoUpCase )
13826: TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13827: 'AllDirectoryEntriesMask', 'String '*
13828: Function lGetAllFilesMask : string
13829: Function lGetExeExt : string
13830: Function lSearchFileInPath( const Filename, basePath, SearchPath, Delimiter : string; Flags : TSearchFileInPathFlags ) : string
13831: Function lSearchAllFilesInPath( const Filename, basePath, SearchPath, Delimiter:string;Flags : TSearchFileInPathFlags ) : TString
13832: Function lFindDiskFilename( const Filename : string ) : string
13833: Function lFindDiskFileCaseInsensitive( const Filename : string ) : string
13834: Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13835: Function lGetDarwinSystemFilename( Filename : string ) : string
13836: SIRegister_TFileIterator(CL);
13837: TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13838: TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13839: TDIRECTORYENTEREvent', 'Procedure ( FileIterator : TFileIterator )
13840: SIRegister_TFileSearcher(CL);
13841: Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13842: Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13843: // 'TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13844: // 'TCopyFileFlags', 'set of TCopyFileFlag
13845: Function lCopyFile( const SrcFilename, Destfilename : string; Flags : TCopyFileFlags) : boolean
13846: Function lCopyFile( const SrcFilename, Destfilename : string; PreserveTime : boolean) : boolean
13847: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13848: Function lReadFileToString( const Filename : string ) : string
13849: Function lGetTempfilename( const Directory, Prefix : string ) : string
13850: {Function NeedRTLAnsi : boolean
13851: Procedure SetNeedRTLAnsi( NewValue : boolean)
13852: Function UTF8ToSys( const s : string ) : string
13853: Function SysToUTF8( const s : string ) : string
13854: Function ConsoleToUTF8( const s : string ) : string
13855: Function UTF8ToConsole( const s : string ) : string
13856: Function FileExistsUTF8( const Filename : string ) : boolean
13857: Function FileAgeUTF8( const FileName : string ) : Longint
13858: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
13859: Function ExpandFileNameUTF8( const FileName : string ) : string
13860: Function ExpandUNCFileNameUTF8( const FileName : string ) : string
13861: Function ExtractShortPathNameUTF8( const FileName : String ) : String
13862: Function FindFirstUTF8( const Path: string; Attr : Longint; out Rslt : TSearchRec ) : Longint
13863: Function FindNextUTF8( var Rslt : TSearchRec ) : Longint
13864: Procedure FindCloseUTF8( var F : TSearchrec )
13865: Function FileSetDateUTF8( const FileName : String; Age : Longint ) : Longint
13866: Function FileGetAttrUTF8( const FileName : String ) : Longint
13867: Function FileSetAttrUTF8( const Filename : String; Attr : longint ) : Longint
13868: Function DeleteFileUTF8( const FileName : String ) : Boolean
13869: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
13870: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
13871: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
13872: Function GetCurrentDirUTF8 : String
13873: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean
13874: Function CreateDirUTF8( const NewDir : String ) : Boolean
13875: Function RemoveDirUTF8( const Dir : String ) : Boolean
13876: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean

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13877: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
13878: Function FileCreateUTF8( const FileName : string ) : THandle;
13879: Function FileCreateUTF81( const FileName : string; Rights : Cardinal ) : THandle;
13880: Function ParamStrUTF8( Param : Integer ) : string
13881: Function GetEnvironmentStringUTF8( Index : Integer ) : string
13882: Function GetEnvironmentVariableUTF8( const EnvVar : string ) : String
13883: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
13884: Function GetAppConfigFileUTF8( Global: Boolean; SubDir:boolean; CreateDir : boolean ) : string
13885: Function SysErrorMessageUTF8( ErrorCode : Integer ) : String
13886: end;
13887:
13888: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13889: begin
13890:   //VK_F23 = 134;
13891:   //{$EXTERNALSYM VK_F24}
13892:   //VK_F24 = 135;
13893:   TVirtualKeyCode', 'Integer
13894:   'VK_MOUSEWHEELUP','integer'(134);
13895:   'VK_MOUSEWHEELDOWN','integer'(135);
13896:   Function glIsKeyDown( c : Char ) : Boolean;
13897:   Function glIsKeyDown1( vk : TVirtualKeyCode ) : Boolean;
13898:   Function glKeyPressed( minVkeyCode : TVirtualKeyCode ) : TVirtualKeyCode
13899:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode ) : String
13900:   Function glKeyNameToVirtualKeyCode( const keyName : String ) : TVirtualKeyCode
13901:   Function glCharToVirtualKeyCode( c : Char ) : TVirtualKeyCode
13902:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer )
13903: end;
13904:
13905: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13906: begin
13907:   TGLPoint', 'TPoint
13908:   //PGLPoint', '^TGLPoint // will not work
13909:   TGLRect', 'TRect
13910:   //PGLRect', '^TGLRect // will not work
13911:   TDelphiColor', 'TColor
13912:   TGLPicture', 'TPicture
13913:   TGLGraphic', 'TGraphic
13914:   TGLBitmap', 'TBitmap
13915:   //TGraphicClass', 'class of TGraphic
13916:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13917:   TGLMouseEvent', '( mbLeft, mbRight, mbMiddle )
13918:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13919:   +'Button; Shift : TShiftState; X, Y : Integer)
13920:   TGLMouseMoveEvent', 'TMouseEvent
13921:   TGLKeyEvent', 'TKeyEvent
13922:   TGLKeyPressEvent', 'TKeyPressEvent
13923:   EGLOSError', 'EWin32Error
13924:   EGLOSError', 'EWin32Error
13925:   EGLOSError', 'EOSError
13926:   'glsAllFilter', 'string'All // sAllFilter
13927:   Function GLPoint( const x, y : Integer ) : TGLPoint
13928:   Function GLRGB( const r, g, b : Byte ) : TColor
13929:   Function GLColorToRGB( color : TColor ) : TColor
13930:   Function GLGetRValue( rgb : DWORD ) : Byte
13931:   Function GLGetGValue( rgb : DWORD ) : Byte
13932:   Function GLGetBValue( rgb : DWORD ) : Byte
13933:   Procedure GLInitWinColors
13934:   Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
13935:   Procedure GL InflateGLRect( var aRect : TGLRect; dx, dy : Integer )
13936:   Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
13937:   Procedure GLInformationDlg( const msg : String )
13938:   Function GLQuestionDlg( const msg : String ) : Boolean
13939:   Function GLInputDlg( const aCaption, aPrompt, aDefault : String ) : String
13940:   Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13941:   Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13942:   Function GLApplicationTerminated : Boolean
13943:   Procedure GLRaiseLastOSError
13944:   Procedure GLFreeAndNil( var anObject: TObject )
13945:   Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
13946:   Function GLGetCurrentColorDepth : Integer
13947:   Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
13948:   Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
13949:   Procedure GLSleep( length : Cardinal )
13950:   Procedure GLQueryPerformanceCounter( var val : Int64 )
13951:   Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
13952:   Function GLStartPrecisionTimer : Int64
13953:   Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
13954:   Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
13955:   Function GLRDTSC : Int64
13956:   Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
13957:   Function GLOKMessageBox( const Text, Caption : string ) : Integer
13958:   Procedure GLShowHTMLUrl( Url : String )
13959:   Procedure GLShowCursor( AShow : boolean )
13960:   Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
13961:   Procedure GLGetCursorPos( var point : TGLPoint )
13962:   Function GLGetScreenWidth : integer
13963:   Function GLGetScreenHeight : integer
13964:   Function GLGetTickCount : int64
13965:   function RemoveSpaces(const str : String) : String;

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13966: TNormalMapSpace', '( nmsObject, nmsTangent )'
13967: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList;Colors:TVectorList)
13968: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList )
13969: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals :
13970: TAffineVectorList; Colors : TVectorList )
13971: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
13972: HiTexCoords:TAffineVectorList ):TGLBitmap
13973: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
13974: LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
13975: end;
13976: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
13977: begin
13978:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
13979: // PGLStarRecord', '^TGLStarRecord // will not work
13980: Function StarRecordPositionZUp( const starRecord : TGLStarRecord ) : TAffineVector
13981: Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
13982: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
13983: end;
13984: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
13985: begin
13986:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
13987: //PAABB', 'TAABB // will not work
13988: TBSphere', 'record Center : TAffineVector; Radius : single; end
13989: TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
13990: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
13991: Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
13992: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB )
13993: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
13994: Procedure SetAABB( var bb : TAABB; const v : TVector )
13995: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix )
13996: Procedure AABBTransform( var bb : TAABB; const m : TMatrix )
13997: Procedure AABBScale( var bb : TAABB; const v : TAffineVector )
13998: Function BBMinX( const c : THmgBoundingBox ) : Single
13999: Function BBMaxX( const c : THmgBoundingBox ) : Single
14000: Function BBMinY( const c : THmgBoundingBox ) : Single
14001: Function BBMaxY( const c : THmgBoundingBox ) : Single
14002: Function BBMinZ( const c : THmgBoundingBox ) : Single
14003: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14004: Procedure AABBInclude( var bb : TAABB; const p : TAffineVector )
14005: Procedure AABBFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14006: Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14007: Function BBTxAABB( const aabb : THmgBoundingBox ) : TAABB
14008: Function AABBToBB( const anAABB : TAABB ) : THmgBoundingBox
14009: Function AABBToBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox
14010: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14011: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14012: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14013: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14014: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14015: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14016: Function AABBfitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14017: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14018: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14019: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14020: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14021: Procedure ExtractAABB_corners( const AABB : TAABB; var AABBCorners : TAABBCorners )
14022: Procedure AABBToBSphere( const ABB : TAABB; var BSphere : TBSphere )
14023: Procedure BSphereToAABB( const BSphere : TBSphere; var ABB : TAABB );
14024: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14025: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14026: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14027: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains
14028: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains
14029: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains
14030: Function PlaneContainsBSphere(const Location,Normal:TAffineVector;const
14031: testBSphere:TBSphere):TSpaceContains
14032: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains
14033: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14034: Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector
14035: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean
14036: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single )
14037: Function AABBToClipRect(const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
14038: viewportSizeY:Int):TClipRect
14039: procedure SIRegister_GeometryCoordinates(CL: TPSPascalCompiler);
14040: begin
14041: Procedure Cylindrical_Cartesian( const r, theta, zl : single; var x, y, z : single );
14042: Procedure Cylindrical_Cartesian1( const r, theta, zl : double; var x, y, z : double );
14043: Procedure Cylindrical_Cartesian2( const r,theta,zl : single; var x, y, z : single; var ierr : integer );
14044: Procedure Cylindrical_Cartesian3( const r,theta,zl : double; var x, y, z : double; var ierr : integer );
14045: Procedure Cartesian_Cylindrical( const x, y, zl : single; var r, theta, z : single );
14046: Procedure Cartesian_Cylindrical1( const x, y, zl : double; var r, theta, z : double );
14047: Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single );
14048: Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double );
14049: Procedure Spherical_Cartesian2( const r,theta,phi : single; var x, y, z : single; var ierr : integer );

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14050: Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer);
14051: Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single);
14052: Procedure Cartesian_Sphericalcall( const v : TAffineVector; var r, theta, phi : Single);
14053: Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double);
14054: Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14055: Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14056: Procedure ProlateSpheroidal_Cartesian2( const xi, eta, phi, a : single; var x, y, z : single; var ierr: integer);
14057: Procedure ProlateSpheroidal_Cartesian3( const xi, eta, phi, a : double; var x, y, z : double; var ierr: integer);
14058: Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single);
14059: Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double);
14060: Procedure OblateSpheroidal_Cartesian2( const xi, eta, phi, a : single; var x, y, z : single; var ierr: integer);
14061: Procedure OblateSpheroidal_Cartesian3( const xi, eta, phi, a : double; var x, y, z : double; var ierr: integer);
14062: Procedure BipolarCylindrical_Cartesian( const u, v, zl, a : single; var x, y, z : single);
14063: Procedure BipolarCylindrical_Cartesian1( const u, v, zl, a : double; var x, y, z : double);
14064: Procedure BipolarCylindrical_Cartesian2( const u, v, zl, a : single; var x, y, z : single; var ierr : integer);
14065: Procedure BipolarCylindrical_Cartesian3( const u, v, zl, a : double; var x, y, z : double; var ierr : integer);
14066: end;
14067:
14068: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14069: begin
14070:   'EPSILON','Single').setExtended( 1e-40);
14071:   'EPSILON2','Single').setExtended( 1e-30); }
14072: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14073:   +'irection : TVector; viewPortRadius : Single; farClippingDistance:Single; frustum:TFrustum; end
14074: THmgPlane', 'TVector
14075: TDoubleHmgPlane', 'THomogeneousDblVector
14076: {TTransType', '({ ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14077:   +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14078:   +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14079: TSingleArray', 'array of Single
14080: TTransformations', 'array [0..15] of Single)
14081: TPackedRotationMatrix', 'array [0..2] of Smallint)
14082: TVertex', 'TAffineVector
14083: //TVectorGL', 'THomogeneousFltVector
14084: //TMatrixGL', 'THomogeneousFltMatrix
14085: // TPackedRotationMatrix = array [0..2] of SmallInt;
14086: Function glTexPointMake( const s, t : Single) : TTExPoint
14087: Function glAffineVectorMake( const x, y, z : Single) : TAffineVector;
14088: Function glAffineVectorMakeL( const v : TVectorGL) : TAffineVector;
14089: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single);
14090: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single);
14091: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL);
14092: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector);
14093: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector);
14094: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL);
14095: Function glVectorMake( const v : TAffineVector; w : Single) : TVectorGL;
14096: Function glVectorMakeL( const x, y, z : Single; w : Single) : TVectorGL;
14097: Function glPointMake( const x, y, z : Single) : TVectorGL;
14098: Function glPointMake1( const v : TAffineVector) : TVectorGL;
14099: Function glPointMake2( const v : TVectorGL) : TVectorGL;
14100: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single);
14101: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single);
14102: Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL);
14103: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single);
14104: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector);
14105: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL);
14106: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single);
14107: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single);
14108: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector);
14109: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14110: Procedure glRstVector( var v : TAffineVector);
14111: Procedure glRstVector1( var v : TVectorGL);
14112: Function glVectorAdd( const v1, v2 : TAffineVector) : TAffineVector;
14113: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector);
14114: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector);
14115: Function glVectorAdd3( const v1, v2 : TVectorGL) : TVectorGL;
14116: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL);
14117: Function glVectorAdd5( const v : TAffineVector; const f : Single) : TAffineVector;
14118: Function glVectorAdd6( const v : TVectorGL; const f : Single) : TVectorGL;
14119: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector);
14120: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL);
14121: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL);
14122: Procedure glAddVector10( var v : TAffineVector; const f : Single);
14123: Procedure glAddVector11( var v : TVectorGL; const f : Single);
14124: //Procedure TexPointArrayAdd(const src:PTexPointArray;const delta:TTexPoint;const
14125: nb:Int;dest:PTexPointArray);
14126: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray;const delta:TTexPoint;const
14127: nb:Integer;const scale: TTExPoint; dest : PTExPointArray);
14128: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector;const nb:Integer;dest:
14129: PAffineVectorArray);
14130: Function glVectorSubtract( const V1, V2 : TAffineVector) : TAffineVector;
14131: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector);
14132: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL);
14133: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL);
14134: Function glVectorSubtract4( const V1, V2 : TVectorGL) : TVectorGL;
14135: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TAffineVector);
14136: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector);
14137: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single) : TAffineVector;
14138: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single) : TVectorGL;

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14136: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector);
14137: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL);
14138: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single);
14139: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat);
14140: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single) : TTexPoint;
14141: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single) : TAffineVector;
14142: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single) : TAffineVector;
14143: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector);
14144: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single);
14145: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single);
14146: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single) : TVectorGL;
14147: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1,F2:Single) : TVectorGL;
14148: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL);
14149: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL);
14150: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL);
14151: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single) : TVectorGL;
14152: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL);
14153: Function glVectorDotProduct( const V1, V2 : TAffineVector) : Single;
14154: Function glVectorDotProduct1( const V1, V2 : TVectorGL) : Single;
14155: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector) : Single;
14156: Function glPointProject( const p, origin, direction : TAffineVector) : Single;
14157: Function glPointProject1( const p, origin, direction : TVectorGL) : Single;
14158: Function glVectorCrossProduct( const V1, V2 : TAffineVector) : TAffineVector;
14159: Function glVectorCrossProduct1( const V1, V2 : TVectorGL) : TVectorGL;
14160: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL);
14161: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL);
14162: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector);
14163: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector);
14164: Function glLerp( const start, stop, t : Single) : Single;
14165: Function glAngleLerp( start, stop, t : Single) : Single;
14166: Function glDistanceBetweenAngles( angle1, angle2 : Single) : Single;
14167: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single) : TTexPoint;
14168: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14169: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector);
14170: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single) : TVectorGL;
14171: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL);
14172: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single) : TAffineVector;
14173: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single) : TAffineVector;
14174: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray);
14175: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
PAffineVectorArray);
14176: Function glVectorLength( const x, y : Single) : Single;
14177: Function glVectorLength1( const x, y, z : Single) : Single;
14178: Function glVectorLength2( const v : TAffineVector) : Single;
14179: Function glVectorLength3( const v : TVectorGL) : Single;
14180: Function glVectorLength4( const v : array of Single) : Single;
14181: Function glVectorNorm( const x, y : Single) : Single;
14182: Function glVectorNorm1( const v : TAffineVector) : Single;
14183: Function glVectorNorm2( const v : TVectorGL) : Single;
14184: Function glVectorNorm3( var V : array of Single) : Single;
14185: Procedure glNormalizeVector( var v : TAffineVector);
14186: Procedure glNormalizeVector1( var v : TVectorGL);
14187: Function glVectorNormalize( const v : TAffineVector) : TAffineVector;
14188: Function glVectorNormalize1( const v : TVectorGL) : TVectorGL;
14189: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer);
14190: Function glVectorAngleCosine( const V1, V2 : TAffineVector) : Single;
14191: Function glVectorNegate( const v : TAffineVector) : TAffineVector;
14192: Function glVectorNegate1( const v : TVectorGL) : TVectorGL;
14193: Procedure glNegateVector( var V : TAffineVector);
14194: Procedure glNegateVector2( var V : TVectorGL);
14195: Procedure glNegateVector3( var V : array of Single);
14196: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14197: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14198: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14199: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14200: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14201: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14202: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14203: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14204: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14205: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14206: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14207: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14208: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14209: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14210: Function glVectorIsNotNull( const v : TAffineVector) : Boolean;
14211: Function glVectorSpacing( const v1, v2 : TTexPoint) : Single;
14212: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14213: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14214: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14215: Function glVectorDistance2( const v1, v2 : TVectorGL) : Single;
14216: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14217: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14218: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector;
14219: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector;
14220: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);
14221: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14222: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single);
14223: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;

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14224: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single ) : TAffineVector;
14225: Procedure glVectorRotateAroundYl( const v : TAffineVector; alpha : Single; var vr : TAffineVector );
14226: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single ) : TAffineVector;
14227: Procedure glAbsVector( var v : TVectorGL );
14228: Procedure glAbsVectorl( var v : TAffineVector );
14229: Function glVectorAbs( const v : TVectorGL ) : TVectorGL;
14230: Function glVectorAbsl( const v : TAffineVector ) : TAffineVector;
14231: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL );
14232: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL );
14233: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix );
14234: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL );
14235: Function glCreateScaleMatrix( const v : TAffineVector ) : TMatrixGL;
14236: Function glCreateScaleMatrixl( const v : TVectorGL ) : TMatrixGL;
14237: Function glCreateTranslationMatrix( const V : TAffineVector ) : TMatrixGL;
14238: Function glCreateTranslationMatrixl( const V : TVectorGL ) : TMatrixGL;
14239: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL ) : TMatrixGL;
14240: Function glCreateRotationMatrixX( const sine, cosine : Single ) : TMatrixGL;
14241: Function glCreateRotationMatrixXl( const angle : Single ) : TMatrixGL;
14242: Function glCreateRotationMatrixY( const sine, cosine : Single ) : TMatrixGL;
14243: Function glCreateRotationMatrixYl( const angle : Single ) : TMatrixGL;
14244: Function glCreateRotationMatrixZ( const sine, cosine : Single ) : TMatrixGL;
14245: Function glCreateRotationMatrixZl( const angle : Single ) : TMatrixGL;
14246: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single ) : TMatrixGL;
14247: Function glCreateRotationMatrixl( const anAxis : TVectorGL; angle : Single ) : TMatrixGL;
14248: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix;
14249: Function glMatrixMultiply( const M1, M2 : TAffineMatrix ) : TAffineMatrix;
14250: Function glMatrixMultiplyl( const M1, M2 : TMatrixGL ) : TMatrixGL;
14251: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL );
14252: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL ) : TVectorGL;
14253: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix ) : TVectorGL;
14254: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL ) : TAffineVector;
14255: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix ) : TAffineVector;
14256: Function glMatrixDeterminant( const M : TAffineMatrix ) : Single;
14257: Function glMatrixDeterminantl( const M : TMatrixGL ) : Single;
14258: Procedure glAdjointMatrix( var M : TMatrixGL );
14259: Procedure glAdjointMatrixl( var M : TAffineMatrix );
14260: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single );
14261: Procedure glScaleMatrixl( var M : TMatrixGL; const factor : Single );
14262: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector );
14263: Procedure glTranslateMatrixl( var M : TMatrixGL; const v : TVectorGL );
14264: Procedure glNormalizeMatrix( var M : TMatrixGL );
14265: Procedure glTransposeMatrix( var M : TAffineMatrix );
14266: Procedure glTransposeMatrixl( var M : TMatrixGL );
14267: Procedure glInvertMatrix( var M : TMatrixGL );
14268: Procedure glInvertMatrixl( var M : TAffineMatrix );
14269: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL ) : TMatrixGL;
14270: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations ) : Boolean;
14271: Function glPlaneMake( const p1, p2, p3 : TAffineVector ) : THmgPlane;
14272: Function glPlaneMake1( const p1, p2, p3 : TVectorGL ) : THmgPlane;
14273: Function glPlaneMake2( const point, normal : TAffineVector ) : THmgPlane;
14274: Function glPlaneMake3( const point, normal : TVectorGL ) : THmgPlane;
14275: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane );
14276: Procedure glNormalizePlane( var plane : THmgPlane );
14277: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector ) : Single;
14278: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL ) : Single;
14279: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector ) : TAffineVector;
14280: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector );
14281: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector );
14282: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL ) : Boolean;
14283: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector ) : Boolean;
14284: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL ) : Single;
14285: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector ) : Single;
14286: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector;
14287: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector ) : single;
14288: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector ) : TAffineVector;
14289: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector ) : Single;
14290: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var Segment0Closest, Segment1Closest : TAffineVector );
14291: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single
14292: TEulerOrder', '( eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX )
14293: Function glQuaternionMake( const Imag : array[0..3] of Single; Real : Single ) : TQuaternion;
14294: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion;
14295: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single;
14296: Procedure glNormalizeQuaternion( var Q : TQuaternion );
14297: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion;
14298: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector );
14299: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion;
14300: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL;
14301: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix;
14302: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion;
14303: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion;
14304: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion;
14305: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion;
14306: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14307: Function glQuaternionSlerpl( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14308: Function glLnXP1( X : Extended ) : Extended;
14309: Function glLog10( X : Extended ) : Extended;
14310: Function glLog2( X : Extended ) : Extended;
14311: Function glLog21( X : Single ) : Single;

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14312: Function glLogN( Base, X : Extended ) : Extended
14313: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14314: Function glPower( const Base, Exponent : Single ) : Single;
14315: Function glPower1( Base : Single; Exponent : Integer ) : Single;
14316: Function glDegToRad( const Degrees : Extended ) : Extended;
14317: Function glDegToRad1( const Degrees : Single ) : Single;
14318: Function glRadToDeg( const Radians : Extended ) : Extended;
14319: Function glRadToDeg1( const Radians : Single ) : Single;
14320: Function glNormalizeAngle( angle : Single ) : Single
14321: Function glNormalizeDegAngle( angle : Single ) : Single
14322: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14323: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14324: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14325: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14326: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14327: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14328: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14329: Function glArcCos( const X : Extended ) : Extended;
14330: Function glArcCos1( const x : Single ) : Single;
14331: Function glArcSin( const X : Extended ) : Extended;
14332: Function glArcSin1( const X : Single ) : Single;
14333: Function glArcTan21( const Y, X : Extended ) : Extended;
14334: Function glArcTan21( const Y, X : Single ) : Single;
14335: Function glFastArcTan2( y, x : Single ) : Single
14336: Function glTan( const X : Extended ) : Extended;
14337: Function glTan1( const X : Single ) : Single;
14338: Function glCoTan( const X : Extended ) : Extended;
14339: Function glCoTan1( const X : Single ) : Single;
14340: Function glSinh( const x : Single ) : Single;
14341: Function glSinh1( const x : Double ) : Double;
14342: Function glCosh( const x : Single ) : Single;
14343: Function glCosh1( const x : Double ) : Double;
14344: Function glRSqrt( v : Single ) : Single
14345: Function glRLength( x, y : Single ) : Single
14346: Function glISqrt( i : Integer ) : Integer
14347: Function glILength( x, y : Integer ) : Integer;
14348: Function glILength1( x, y, z : Integer ) : Integer;
14349: Procedure glRegisterBasedExp
14350: Procedure glRandomPointOnSphere( var p : TAffineVector )
14351: Function glRoundInt( v : Single ) : Single;
14352: Function glRoundInt1( v : Extended ) : Extended;
14353: Function glTrunc( v : Single ) : Integer;
14354: Function glTrunc64( v : Extended ) : Int64;
14355: Function glInt( v : Single ) : Single;
14356: Function glInt1( v : Extended ) : Extended;
14357: Function glFrac( v : Single ) : Single;
14358: Function glFrac1( v : Extended ) : Extended;
14359: Function glRound( v : Single ) : Integer;
14360: Function glRound64( v : Single ) : Int64;
14361: Function glRound641( v : Extended ) : Int64;
14362: Function glTrunc( X : Extended ) : Int64
14363: Function glRound( X : Extended ) : Int64
14364: Function glFrac( X : Extended ) : Extended
14365: Function glCeil( v : Single ) : Integer;
14366: Function glCeil64( v : Extended ) : Int64;
14367: Function glFloor( v : Single ) : Integer;
14368: Function glFloor64( v : Extended ) : Int64;
14369: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14370: Function glSign( x : Single ) : Integer
14371: Function glIsInRange( const x, a, b : Single ) : Boolean;
14372: Function glIsInRange1( const x, a, b : Double ) : Boolean;
14373: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14374: Function glIsInCube1( const p, d : TVectorGL ) : Boolean;
14375: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14376: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14377: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14378: Function glMinFloat3( const v1, v2 : Single ) : Single;
14379: Function glMinFloat4( const v : array of Single ) : Single;
14380: Function glMinFloat5( const v1, v2 : Double ) : Double;
14381: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14382: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14383: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14384: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14385: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14386: //Function MaxFloat( values : PDoubleArray; nbItems : Integer ) : Double;
14387: //Function MaxFloat11( values : PExtendedArray; nbItems : Integer ) : Extended;
14388: Function glMaxFloat2( const v : array of Single ) : Single;
14389: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14390: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14391: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14392: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14393: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14394: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14395: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14396: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14397: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14398: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14399: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14400: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;

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14401: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14402: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14403: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14404: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14405: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14406: Procedure gloffsetFloatArray( var values : array of Single; delta : Single );
14407: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14408: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14409: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14410: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14411: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14412: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14413: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14414: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14415: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14416: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14417: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14418: Procedure glSortArrayAscending( var a : array of Extended );
14419: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14420: Function glClampValue1( const aValue, aMin : Single ) : Single;
14421: Function glGeometryOptimizationMode : String;
14422: Procedure glBeginFPUOnlySection;
14423: Procedure glEndFPUOnlySection;
14424: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14425: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14426: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14427: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14428: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14429: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14430: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14431: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14432: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14433: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14434: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14435: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14436: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14437: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14438: Function glRoll1( const Matrix : TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14439: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single;
14440: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14441: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL; const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14442: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14443: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14444: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14445: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14446: Function glIsVolumeClipped2( const min,max:TAffineVector;const rcci : TRenderContextClippingInfo ) : Bool;
14447: Function glIsVolumeClipped3( const objPos:TAffineVector;const objRadius:Single;const Frustum:TFrustum):Bool;
14448: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;
14449: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL;
14450: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL;
14451: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix;
14452: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL;
14453: 'cPI','Single').setExtended( 3.141592654 );
14454: 'cPIDiv180','Single').setExtended( 0.017453292 );
14455: 'c180DivPI','Single').setExtended( 57.29577951 );
14456: 'c2PI','Single').setExtended( 6.283185307 );
14457: 'cPIdiv2','Single').setExtended( 1.570796326 );
14458: 'cPIdiv4','Single').setExtended( 0.785398163 );
14459: 'c3PIdiv4','Single').setExtended( 2.35619449 );
14460: 'cInv2PI','Single').setExtended( 1 / 6.283185307 );
14461: 'cInv360','Single').setExtended( 1 / 360 );
14462: 'c180','Single').setExtended( 180 );
14463: 'c360','Single').setExtended( 360 );
14464: 'cOneHalf','Single').setExtended( 0.5 );
14465: 'cLn10','Single').setExtended( 2.302585093 );
14466: {'MinSingle','Extended').setExtended( 1.5e-45 );
14467: 'MaxSingle','Extended').setExtended( 3.4e+38 );
14468: 'MinDouble','Extended').setExtended( 5.0e-324 );
14469: 'MaxDouble','Extended').setExtended( 1.7e+308 );
14470: 'MinExtended','Extended').setExtended( 3.4e-4932 );
14471: 'MaxExtended','Extended').setExtended( 1.1e+4932 );
14472: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18 );
14473: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18 );
14474: end;
14475:
14476: procedure SIRegister_GLVectorFileObjects(CL: TPPSPascalCompiler);
14477: begin
14478:   AddClassN(FindClass('TOBJECT'), 'TMeshObjectList';
14479:   (FindClass('TOBJECT'), 'TFaceGroups';
14480:    TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter );
14481:    TMeshAutoCenterings', 'set of TMeshAutoCentering
14482:    TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14483:    SIRegister_TBaseMeshObject(CL);
14484:   (FindClass('TOBJECT'), 'TSkeletonFrameList

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14485: TSkeletonFrameTransform', '( sftRotation, sftQuaternion )'
14486: SIRegister_TSkeletonFrame(CL);
14487: SIRegister_TSkeletonFrameList(CL);
14488: (FindClass('TOBJECT'), 'TSkeleton'
14489: (FindClass('TOBJECT'), 'TSkeletonBone
14490: SIRegister_TSkeletonBoneList(CL);
14491: SIRegister_TSkeletonRootBoneList(CL);
14492: SIRegister_TSkeletonBone(CL);
14493: (FindClass('TOBJECT'), 'TSkeletonColliderList
14494: SIRegister_TSkeletonCollider(CL);
14495: SIRegister_TSkeletonColliderList(CL);
14496: (FindClass('TOBJECT'), 'TGLBaseMesh
14497: TBlendedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14498: +'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14499: +'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14500: +'QuaternionList; end
14501: SIRegister_TSkeleton(CL);
14502: TMeshObjectRenderingOption', '( moroGroupByMaterial )
14503: TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14504: SIRegister_TMeshObject(CL);
14505: SIRegister_TMeshObjectList(CL);
14506: //TMeshObjectListClass', 'class of TMeshObjectList
14507: (FindClass('TOBJECT'), 'TMeshMorphTargetList
14508: SIRegister_TMeshMorphTarget(CL);
14509: SIRegister_TMeshMorphTargetList(CL);
14510: SIRegister_TMorphableMeshObject(CL);
14511: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14512: //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not wo'rk
14513: //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14514: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14515: SIRegister_TSkeletonMeshObject(CL);
14516: SIRegister_TFaceGroup(CL);
14517: TFaceGroupMeshMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14518: +'atTriangles, fgmmTriangleFan, fgmmQuads )
14519: SIRegister_TFGVertexIndexList(CL);
14520: SIRegister_TFGVertexNormalTexIndexList(CL);
14521: SIRegister_TFGIndexTexCoordList(CL);
14522: SIRegister_TFaceGroups(CL);
14523: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14524: SIRegister_TVectorFile(CL);
14525: //TVectorFileClass', 'class of TVectorFile
14526: SIRegister_TGLGLSMVectorFile(CL);
14527: SIRegister_TGLBaseMesh(CL);
14528: SIRegister_TGLFreeForm(CL);
14529: TGLActorOption', '( aoSkeletonNormalizeNormals )
14530: TGLActorOptions', 'set of TGLActorOption
14531: 'cDefaultGLActorOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14532: (FindClass('TOBJECT'), 'TGLActor
14533: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14534: SIRegister_TActorAnimation(CL);
14535: TActorAnimationName', 'String
14536: SIRegister_TActorAnimations(CL);
14537: SIRegister_TGLBaseAnimationController(CL);
14538: SIRegister_TGLAnimationController(CL);
14539: TActorFrameInterpolation', '( afpNone, afpLinear )
14540: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounc'
14541: +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14542: SIRegister_TGLActor(CL);
14543: SIRegister_TVectorFileFormat(CL);
14544: SIRegister_TVectorFileFormatsList(CL);
14545: (FindClass('TOBJECT'), 'EInvalidVectorFile
14546: Function GetVectorFileFormats : TVectorFileFormatsList
14547: Function VectorFileFormatsFilter : String
14548: Function VectorFileFormatsSaveFilter : String
14549: Function VectorFileFormatExtensionByIndex( index : Integer ) : String
14550: Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass )
14551: Procedure UnregisterVectorFileClass( aClass : TVectorFileClass )
14552: end;
14553:
14554: procedure SIRegister_AxCtrls(CL: TPPascalCompiler);
14555: begin
14556: 'Class_DColorPropPage', 'GUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14557: 'Class_DFontPropPage', 'GUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14558: 'Class_DPicturePropPage', 'GUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14559: 'Class_DStringPropPage', 'GUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14560: SIRegister_TOLEStream(CL);
14561: (FindClass('TOBJECT'), 'TConnectionPoints
14562: TConnectionKind', '( ckSingle, ckMulti )
14563: SIRegister_TConnectionPoint(CL);
14564: SIRegister_TConnectionPoints(CL);
14565: TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14566: (FindClass('TOBJECT'), 'TActiveXControlFactory
14567: SIRegister_TActiveXControl(CL);
14568: //TActiveXControlClass', 'class of TActiveXControl
14569: SIRegister_TActiveXControlFactory(CL);
14570: SIRegister_TActiveFormControl(CL);
14571: SIRegister_TActiveForm(CL);
14572: //TActiveFormClass', 'class of TActiveForm
14573: SIRegister_TActiveFormFactory(CL);

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14574: (FindClass('TOBJECT'), 'TPropertyPageImpl
14575: SIRegister_TPropertyPage(CL);
14576: //TPropertyPageClass', 'class of TPropertyPage
14577: SIRegister_TPropertyPageImpl(CL);
14578: SIRegister_TActiveXPropertyPage(CL);
14579: SIRegister_TActiveXPropertyPageFactory(CL);
14580: SIRegister_TCustomAdapter(CL);
14581: SIRegister_TAdapterNotifier(CL);
14582: SIRegister_IFontAccess(CL);
14583: SIRegister_TFontAdapter(CL);
14584: SIRegister_IPictureAccess(CL);
14585: SIRegister_TPictureAdapter(CL);
14586: SIRegister_TOLEGraphic(CL);
14587: SIRegister_TStringsAdapter(CL);
14588: SIRegister_TReflectorWindow(CL);
14589: Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14590: Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14591: Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14592: Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14593: Procedure SetOlePicture( Picture : TPicture; OlePicture : IPictureDisp)
14594: Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14595: Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14596: Function ParkingWindow : HWND
14597: end;
14598:
14599: procedure SIRegister_synaip(CL: TPPascalCompiler);
14600: begin
14601: // TIp6Bytes = array [0..15] of Byte;
14602: {:binary form of IPv6 adress (for string conversion routines)}
14603: // TIp6Words = array [0..7] of Word;
14604: AddTypes('TIp6Bytes', 'array [0..15] of Byte;');
14605: AddTypes('TIp6Words', 'array [0..7] of Word;');
14606: AddTypes('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14607: Function synaIsIP( const Value : string) : Boolean';
14608: Function synaIsIP6( const Value : string) : Boolean';
14609: Function synaPTOID( Host : string) : Ansistring';
14610: Function synaStrToIp6( value : string) : TIp6Bytes';
14611: Function synaIp6ToStr( value : TIp6Bytes) : string';
14612: Function synaStrToIp( value : string) : integer';
14613: Function synaIpToStr( value : integer) : string';
14614: Function synaReverseIP( Value : AnsiString) : AnsiString';
14615: Function synaReverseIP6( Value : AnsiString) : AnsiString';
14616: Function synaExpandIP6( Value : AnsiString) : AnsiString';
14617: Function xStrToIP( const Value : String) : TIPAdr';
14618: Function xIPToStr( const Adresse : TIPAdr) : String';
14619: Function IPTOCardinal( const Adresse : TIPAdr) : Cardinal';
14620: Function CardinalToIP( const Value : Cardinal) : TIPAdr';
14621: end;
14622:
14623: procedure SIRegister_synacode(CL: TPPascalCompiler);
14624: begin
14625: AddTypeS('TSpecials', 'set of Char');
14626: Const('SpecialChar','TSpecials').SetSet( '=()[]<>;@/?\\"_');
14627: Const('URLFullSpecialChar','TSpecials').SetSet( '/;?:@=&#+');
14628: Const('TableBase64'#ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdefghijklmnopqrstuvwxyz0123456789+/=+');
14629: Const('TableBase64mod'#ABCDEFIGHJKLMNOPQRSTUVWXYZZabcdefghijklmnopqrstuvwxyz0123456789+,=+');
14630: Const('TableUU'('`!#$%&`()*+,-./0123456789;:<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_'));
14631: Const('TableXX'(+#0123456789ABCDEFIGHJKLMNPQRSTUVWXYZZabcdefghijklmnopqrstuvwxyz');
14632: Function DecodeTriplet( const Value : AnsiString; Delimiter : Char) : AnsiString';
14633: Function DecodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14634: Function DecodeURL( const Value : AnsiString) : AnsiString';
14635: Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials) : AnsiString';
14636: Function EncodeQuotedPrintable( const Value : AnsiString) : AnsiString';
14637: Function EncodeSafeQuotedPrintable( const Value : AnsiString) : AnsiString';
14638: Function EncodeURLElement( const Value : AnsiString) : AnsiString';
14639: Function EncodeURL( const Value : AnsiString) : AnsiString';
14640: Function Decode4to3( const Value, Table : AnsiString) : AnsiString';
14641: Function Decode4to3Ex( const Value, Table : AnsiString) : AnsiString';
14642: Function Encode3to4( const Value, Table : AnsiString) : AnsiString';
14643: Function synDecodeBase64( const Value : AnsiString) : AnsiString';
14644: Function synEncodeBase64( const Value : AnsiString) : AnsiString';
14645: Function DecodeBase64mod( const Value : AnsiString) : AnsiString';
14646: Function EncodeBase64mod( const Value : AnsiString) : AnsiString';
14647: Function DecodeUUU( const Value : AnsiString) : AnsiString';
14648: Function EncodeUU( const Value : AnsiString) : AnsiString';
14649: Function DecodeXX( const Value : AnsiString) : AnsiString';
14650: Function DecodeYEnc( const Value : AnsiString) : AnsiString';
14651: Function UpdateCrc32( Value : Byte; Crc32 : Integer) : Integer';
14652: Function synCrc32( const Value : AnsiString) : Integer';
14653: Function UpdateCrc16( Value : Byte; Crc16 : Word) : Word';
14654: Function Crc16( const Value : AnsiString) : Word';
14655: Function synMD5( const Value : AnsiString) : AnsiString';
14656: Function HMAC_MD5( Text, Key : AnsiString) : AnsiString';
14657: Function MD5LongHash( const Value : AnsiString; Len : integer) : AnsiString';
14658: Function synSHA1( const Value : AnsiString) : AnsiString';
14659: Function HMAC_SHA1( Text, Key : AnsiString) : AnsiString';
14660: Function SHA1longHash( const Value : AnsiString; Len : integer) : AnsiString';
14661: Function synMD4( const Value : AnsiString) : AnsiString';
14662: end;

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14663:
14664: procedure SIRegister_synachar(CL: TPSPPascalCompiler);
14665: begin
14666:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14667:             + 'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14668:             + 'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14669:             + '4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14670:             + '_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14671:             + 'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14672:             + ', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14673:             + ', NEXTSTEP, ARMSCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14674:             + 'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14675:             + '1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14676:             + '2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14677:             + 'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14678:             + 'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14679:             + ', CP864, CP865, CP869, CP1125 ')');
14680:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14681:   Function CharsetConversion(const Value: AnsiString; CharFrom: TMimeChar; CharTo: TMimeChar): AnsiString;
14682:   Function CharsetConversionEx(const Value: AnsiString; CharFrom: TMimeChar; CharTo: TMimeChar; const
14683:     TransformTable : array of Word) : AnsiString');
14684:   Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
14685:     TransformTable : array of Word; Translit : Boolean) : AnsiString');
14686:   Function GetCurCP : TMimeChar');
14687:   Function GetCpFromID( Value : AnsiString) : TMimeChar');
14688:   Function GetIdFromCP( Value : TMimeChar) : AnsiString');
14689:   Function NeedCharsetConversion( const Value : AnsiString) : Boolean');
14690:   Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14691:   Function GetBOM( Value : TMimeChar) : AnsiString');
14692:   Function StringToWide( const Value : AnsiString) : WideString');
14693:   Function WideToString( const Value : WideString) : AnsiString');
14694: end;
14695: procedure SIRegister_synamisc(CL: TPSPPascalCompiler);
14696: begin
14697:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14698:   Procedure WakeOnLan( MAC, IP : string)');
14699:   Function GetDNS : string');
14700:   Function GetIEProxy( protocol : string) : TProxySetting');
14701:   Function GetLocalIPs : string');
14702: end;
14703:
14704:
14705: procedure SIRegister_synaser(CL: TPSPPascalCompiler);
14706: begin
14707:   AddConstantN('synCR', 'Char #$0d);
14708:   Const('synLF', 'Char #$0a);
14709:   Const('cSerialChunk', 'LongInt'( 8192);
14710:   Const('LockfileDirectory', 'String '/var/lock');
14711:   Const('PortIsClosed', 'LongInt'( - 1);
14712:   Const('ErrAlreadyOwned', 'LongInt'( 9991);
14713:   Const('ErrAlreadyInUse', 'LongInt'( 9992);
14714:   Const('ErrWrongParameter', 'LongInt'( 9993);
14715:   Const('ErrPortNotOpen', 'LongInt'( 9994);
14716:   Const('ErrNoDeviceAnswer', 'LongInt'( 9995);
14717:   Const('ErrMaxBuffer', 'LongInt'( 9996);
14718:   Const('ErrTimeout', 'LongInt'( 9997);
14719:   Const('ErrNotRead', 'LongInt'( 9998);
14720:   Const('ErrFrame', 'LongInt'( 9999);
14721:   Const('ErrOverrun', 'LongInt'( 10000);
14722:   Const('ErrRxOver', 'LongInt'( 10001);
14723:   Const('ErrRxParity', 'LongInt'( 10002);
14724:   Const('ErrTxFull', 'LongInt'( 10003);
14725:   Const('dcb_Binary', 'LongWord')( $00000001);
14726:   Const('dcb_ParityCheck', 'LongWord')( $00000002);
14727:   Const('dcb_OutxCtsFlow', 'LongWord')( $00000004);
14728:   Const('dcb_OutxDsrFlow', 'LongWord')( $00000008);
14729:   Const('dcb_DtrControlMask', 'LongWord')( $00000030);
14730:   Const('dcb_DtrControlDisable', 'LongWord')( $00000000);
14731:   Const('dcb_DtrControlEnable', 'LongWord')( $00000010);
14732:   Const('dcb_DtrControlHandshake', 'LongWord')( $00000020);
14733:   Const('dcb_DsrSensitivity', 'LongWord')( $00000040);
14734:   Const('dcb_TXContinueOnXoff', 'LongWord')( $00000080);
14735:   Const('dcb_OutX', 'LongWord')( $00000100);
14736:   Const('dcb_InX', 'LongWord')( $00000200);
14737:   Const('dcb_ErrorChar', 'LongWord')( $00000400);
14738:   Const('dcb_NullStrip', 'LongWord')( $00000800);
14739:   Const('dcb_RtsControlMask', 'LongWord')( $00003000);
14740:   Const('dcb_RtsControlDisable', 'LongWord')( $00000000);
14741:   Const('dcb_RtsControlEnable', 'LongWord')( $00001000);
14742:   Const('dcb_RtsControlHandshake', 'LongWord')( $00002000);
14743:   Const('dcb_RtsControlToggle', 'LongWord')( $00003000);
14744:   Const('dcb_AbortOnError', 'LongWord')( $00004000);
14745:   Const('dcb_Reservesd', 'LongWord')( $FFF8000);
14746:   Const('synSB1', 'LongInt'( 0);
14747:   Const('SB1andHalf', 'LongInt'( 1);
14748:   Const('synSB2', 'LongInt'( 2);
14749:   Const('synINVALID_HANDLE_VALUE', 'LongInt'( THandle ( - 1 ));
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14750: Const('CS7fix','LongWord')($00000020);
14751: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long'
14752:   +'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14753:   +'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14754:   +'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14755: //AddTypeS('PDCB', '^TDCB // will not work');
14756: //Const('MaxRates','LongInt'( 18);
14757: //Const('MaxRates','LongInt'( 30);
14758: //Const('MaxRates','LongInt'( 19);
14759: Const('O_SYNC','LongWord')($0080);
14760: Const('synOK','LongInt'( 0));
14761: Const('synErr','LongInt'( integer(-1));
14762: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
14763:   HR_WriteCount, HR_Wait )');
14764: Type('THookSerialStatus',Procedure(Sender: TObject; Reason: THookSerialReason; const Value:string));
14765: SIRegister_ESynnaSerError(CL);
14766: SIRegister_TBlockSerial(CL);
14767: Function GetSerialPortNames: string);
14768: end;
14769: procedure SIRegister_synaicnv(CL: TPSPPascalCompiler);
14770: begin
14771:   Const('DLLIconvName','String 'libiconv.so');
14772:   Const('DLLIconvName','String 'iconv.dll');
14773:   AddTypeS('size_t', 'Cardinal');
14774:   AddTypeS('iconv_t', 'Integer');
14775:   //AddTypeS('iconv_t', 'Pointer');
14776:   AddTypeS('argptr', 'iconv_t');
14777:   Function SynalIconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14778:   Function SynalIconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14779:   Function SynalIconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14780:   Function SynalIconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14781:   Function SynalIconvClose( var cd : iconv_t) : integer';
14782:   Function SynalIconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14783:   Function IsIconvloaded : Boolean';
14784:   Function InitIconvInterface : Boolean';
14785:   Function DestroyIconvInterface : Boolean';
14786:   Const('ICONV_TRIVIALP','LongInt'( 0);
14787:   Const('ICONV_GET_TRANSLITERATE','LongInt'( 1);
14788:   Const('ICONV_SET_TRANSLITERATE','LongInt'( 2);
14789:   Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3);
14790:   Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4);
14791: end;
14792: procedure SIRegister_pingsend(CL: TPSPPascalCompiler);
14793: begin
14794:   Const 'ICMP_ECHO','LongInt'( 8);
14795:   Const('ICMP_ECHOREPLY','LongInt'( 0);
14796:   Const('ICMP_UNREACH','LongInt'( 3);
14797:   Const('ICMP_TIME_EXCEEDED','LongInt'( 11);
14798:   Const('ICMP6_ECHO','LongInt'( 128);
14799:   Const('ICMP6_ECHOREPLY','LongInt'( 129);
14800:   Const('ICMP6_UNREACH','LongInt'( 1);
14801:   Const('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14802:   AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOt'
14803:     +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14804:   SIRegister_TPINGSend(CL);
14805:   Function PingHost( const Host : string) : Integer';
14806:   Function TraceRouteHost( const Host : string) : string';
14807: end;
14808: 
14809: procedure SIRegister_asnlutil(CL: TPSPPascalCompiler);
14810: begin
14811:   AddConstantN('synASN1_BOOL','LongWord')($01);
14812:   Const('synASN1_INT','LongWord')($02);
14813:   Const('synASN1_OCTSTR','LongWord')($04);
14814:   Const('synASN1_NULL','LongWord')($05);
14815:   Const('synASN1_OBJID','LongWord')($06);
14816:   Const('synASN1_ENUM','LongWord')($0a);
14817:   Const('synASN1_SEQ','LongWord')($30);
14818:   Const('synASN1_SETOF','LongWord')($31);
14819:   Const('synASN1_TIMETICKS','LongWord')($43);
14820:   Const('synASN1_IPADDR','LongWord')($40);
14821:   Const('synASN1_COUNTER','LongWord')($41);
14822:   Const('synASN1_GAUGE','LongWord')($42);
14823:   Const('synASN1_TIMETICKS','LongWord')($43);
14824:   Const('synASN1_OPAQUE','LongWord')($44);
14825:   Function synASNEncOIDItem( Value : Integer) : AnsiString';
14826:   Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString) : Integer';
14827:   Function synASNEncLen( Len : Integer) : AnsiString';
14828:   Function synASNDecLen( var Start : Integer; const Buffer : AnsiString) : Integer';
14829:   Function synASNEncInt( Value : Integer) : AnsiString';
14830:   Function synASNEncUIInt( Value : Integer) : AnsiString';
14831:   Function synASNObject( const Data : AnsiString; ASNType : Integer) : AnsiString';
14832:   Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14833:   Function synMibToid( Mib : String) : AnsiString';
14834:   Function synIdToMib( const Id : AnsiString) : String';
14835:   Function synIntMibToStr( const Value : AnsiString) : AnsiString';
14836:   Function ASNdump( const Value : AnsiString) : AnsiString';
14837:   Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings) : Boolean';

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14838: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14839: end;
14840:
14841: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14842: begin
14843:   Const('cLDAPProtocol','String '389');
14844:   Const('LDAP ASN1 BIND REQUEST','LongWord')($60);
14845:   Const('LDAP ASN1 BIND RESPONSE','LongWord')($61);
14846:   Const('LDAP ASN1 UNBIND REQUEST','LongWord')($42);
14847:   Const('LDAP ASN1 SEARCH REQUEST','LongWord')($63);
14848:   Const('LDAP ASN1 SEARCH ENTRY','LongWord')($64);
14849:   Const('LDAP ASN1 SEARCH DONE','LongWord')($65);
14850:   Const('LDAP ASN1 SEARCH REFERENCE','LongWord')($73);
14851:   Const('LDAP ASN1 MODIFY REQUEST','LongWord')($66);
14852:   Const('LDAP ASN1 MODIFY RESPONSE','LongWord')($67);
14853:   Const('LDAP ASN1 ADD REQUEST','LongWord')($68);
14854:   Const('LDAP ASN1 ADD RESPONSE','LongWord')($69);
14855:   Const('LDAP ASN1 DEL REQUEST','LongWord')($4A);
14856:   Const('LDAP ASN1 DEL RESPONSE','LongWord')($6B);
14857:   Const('LDAP ASN1 MODIFYDN REQUEST','LongWord')($6C);
14858:   Const('LDAP ASN1 MODIFYDN RESPONSE','LongWord')($6D);
14859:   Const('LDAP ASN1 COMPARE REQUEST','LongWord')($6E);
14860:   Const('LDAP ASN1 COMPARE RESPONSE','LongWord')($6F);
14861:   Const('LDAP ASN1 ABANDON REQUEST','LongWord')($70);
14862:   Const('LDAP ASN1 EXT REQUEST','LongWord')($77);
14863:   Const('LDAP ASN1 EXT RESPONSE','LongWord')($78);
14864:   SIRegister_TLDAPAttribute(CL);
14865:   SIRegister_TLDAPAttributeList(CL);
14866:   SIRegister_TLDAPResult(CL);
14867:   SIRegister_TLDAPResultList(CL);
14868:   AddTypes('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14869:   AddTypes('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14870:   AddTypes('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14871:   SIRegister_TLDAPSnd(CL);
14872: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14873: end;
14874:
14875:
14876: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14877: begin
14878:   Const('cSysLogProtocol','String '514');
14879:   Const('FCL_Kernel','LongInt'( 0));
14880:   Const('FCL_UserLevel','LongInt'( 1));
14881:   Const('FCL_MailSystem','LongInt'( 2));
14882:   Const('FCL_System','LongInt'( 3));
14883:   Const('FCL_Security','LongInt'( 4));
14884:   Const('FCL_Syslogd','LongInt'( 5));
14885:   Const('FCL_Printer','LongInt'( 6));
14886:   Const('FCL_News','LongInt'( 7));
14887:   Const('FCL_UUCP','LongInt'( 8));
14888:   Const('FCL_Clock','LongInt'( 9));
14889:   Const('FCL_Authorization','LongInt'( 10));
14890:   Const('FCL_FTP','LongInt'( 11));
14891:   Const('FCL_NTP','LongInt'( 12));
14892:   Const('FCL_LogAudit','LongInt'( 13));
14893:   Const('FCL_LogAlert','LongInt'( 14));
14894:   Const('FCL_Time','LongInt'( 15));
14895:   Const('FCL_Local0','LongInt'( 16));
14896:   Const('FCL_Local1','LongInt'( 17));
14897:   Const('FCL_Local2','LongInt'( 18));
14898:   Const('FCL_Local3','LongInt'( 19));
14899:   Const('FCL_Local4','LongInt'( 20));
14900:   Const('FCL_Local5','LongInt'( 21));
14901:   Const('FCL_Local6','LongInt'( 22));
14902:   Const('FCL_Local7','LongInt'( 23));
14903:   Type(TSyslogSeverity', (Emergency, Alert, Critical, Error, Warning, Notice, Info, Debug));
14904:   SIRegister_TSyslogMessage(CL);
14905:   SIRegister_TSyslogSend(CL);
14906: Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const Content:string):Boolean;
14907: end;
14908:
14909:
14910: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
14911: begin
14912:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
14913:   SIRegister_TMessHeader(CL);
14914:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
14915:   SIRegister_TMimeMess(CL);
14916: end;
14917:
14918: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
14919: begin
14920:   (FindClass('TOBJECT'), 'TMimePart');
14921:   AddTypes('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
14922:   AddTypes('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
14923:   AddTypes('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
14924:   SIRegister_TMimePart(CL);
14925:   Const('MaxMimeType', 'LongInt'( 25));

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14926: Function GenerateBoundary : string');
14927: end;
14928:
14929: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
14930: begin
14931:   Function InlineDecode( const Value : string; CP : TMimeChar) : string');
14932:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string');
14933:   Function NeedInline( const Value : AnsiString) : boolean');
14934:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
14935:   Function InlineCode( const Value : string) : string');
14936:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
14937:   Function InlineEmail( const Value : string) : string');
14938: end;
14939:
14940: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
14941: begin
14942:   Const('cFtpProtocol','String '21');
14943:   Const('cFtpDataProtocol','String '20');
14944:   Const('FTP_OK','LongInt'( 255));
14945:   Const('FTP_ERR','LongInt'( 254));
14946:   AddTypeS('FTFTPSStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
14947:   SIRegister_TFTPLListRec(CL);
14948:   SIRegister_TFTPLList(CL);
14949:   SIRegister_TFTPSend(CL);
14950:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14951:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14952:   Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string) : Boolean';
14953: end;
14954:
14955: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
14956: begin
14957:   Const('cHttpProtocol','String '80');
14958:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
14959:   SIRegister_THTTPSend(CL);
14960:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
14961:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
14962:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
14963:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
14964:   Function HttpPostFile(const URL,FieldName,FileName:string;const Data:TStream;const
ResultData:TStrings):Bool;
14965: end;
14966:
14967: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
14968: begin
14969:   Const('cSmtpProtocol','String '25');
14970:   SIRegister_TSMTPSend(CL);
14971:   Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
14972:   Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
14973:   Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Username, Password : string):Boolean';
14974: end;
14975:
14976: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
14977: begin
14978:   Const('cSnmpProtocol','String '161');
14979:   Const('cSnmpTrapProtocol','String '162');
14980:   Const('SNMP_V1','LongInt'( 0));
14981:   Const('SNMP_V2C','LongInt'( 1));
14982:   Const('SNMP_V3','LongInt'( 3));
14983:   Const('PDUGetRequest','LongWord')( $A0);
14984:   Const('PDUGetNextRequest','LongWord')( $A1);
14985:   Const('PDUGetResponse','LongWord')( $A2);
14986:   Const('PDUSetRequest','LongWord')( $A3);
14987:   Const('PDUTrap','LongWord')( $A4);
14988:   Const('PDUGetBulkRequest','LongWord')( $A5);
14989:   Const('PDUInformRequest','LongWord')( $A6);
14990:   Const('PDUTrapV2','LongWord')( $A7);
14991:   Const('PDUReport','LongWord')( $A8);
14992:   Const('ENoError',LongInt 0;
14993:   Const('ETooBig','LongInt')( 1);
14994:   Const('ENoSuchName','LongInt'( 2);
14995:   Const('EBadValue','LongInt'( 3);
14996:   Const('EReadOnly','LongInt'( 4);
14997:   Const('EGenErr','LongInt'( 5);
14998:   Const('ENoAccess','LongInt'( 6);
14999:   Const('EWrongType','LongInt'( 7);
15000:   Const('EWrongLength','LongInt'( 8);
15001:   Const('EWrongEncoding','LongInt'( 9);
15002:   Const('EWrongValue','LongInt'( 10);
15003:   Const('ENoCreation','LongInt'( 11);
15004:   Const('EInconsistentValue','LongInt'( 12);
15005:   Const('EResourceUnavailable','LongInt'( 13);
15006:   Const('ECommitFailed','LongInt'( 14);
15007:   Const('EUndoFailed','LongInt'( 15);
15008:   Const('EAuthorizationError','LongInt'( 16);
15009:   Const('ENotWritable','LongInt'( 17);
15010:   Const('EInconsistentName','LongInt'( 18);

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15011: AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15012: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15013: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15014: SIRegister_TSNCMPMib(CL);
15015: AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
15016:   +'EngineTime : integer; EngineStamp : Cardinal; end');
15017: SIRegister_TSNCMPRec(CL);
15018: SIRegister_TSNCMPSend(CL);
15019: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString ) : Boolean';
15020: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer ) : Boolean';
15021: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15022: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings) : Boolean;
15023: Function SNMPGetTableElement(const BaseOID,RowID,ColID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15024: Function SendTrap(const Dest,Source,Enterprise,Community : AnsiString; Generic, Specific, Seconds : Integer; const MIBName, MIBValue : AnsiString; MIBtype : Integer) : Integer';
15025: Function RecvTrap(var Dest,Source,Enterprise,Community: AnsiString; var Generic, Specific, Seconds : Integer; const MIBName, MIBValue : TStringList) : Integer';
15026: end;
15027:
15028: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15029: begin
15030:   Function GetDomainName2: AnsiString';
15031:   Function GetDomainController( Domain : AnsiString ) : AnsiString';
15032:   Function GetDomainUsers( Controller : AnsiString ) : AnsiString';
15033:   Function GetDomainGroups( Controller : AnsiString ) : AnsiString';
15034:   Function GetDateTime( Controller : AnsiString ) : TDateTime';
15035:   Function GetFullName2( Controller, UserID : AnsiString ) : AnsiString';
15036: end;
15037:
15038: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15039: begin
15040:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15041:   TwwDateTimeSelection','(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM);
15042:   Function wwStrToDate( const S : string ) : boolean';
15043:   Function wwStrToTime( const S : string ) : boolean';
15044:   Function wwStrToDateTime( const S : string ) : boolean';
15045:   Function wwStrToTimeVal( const S : string ) : TDateTime';
15046:   Function wwStrToDateVal( const S : string ) : TDateTime';
15047:   Function wwStrToDateTimeVal( const S : string ) : TDateTime';
15048:   Function wwStrToInt( const S : string ) : boolean';
15049:   Function wwStrToFloat( const S : string ) : boolean';
15050:   Function wwGetDateOrder( const DateFormat : string ) : TwwDateOrder';
15051:   Function wwNextDay( Year, Month, Day : Word ) : integer';
15052:   Function wwPriorDay( Year, Month, Day : Word ) : integer';
15053:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime ) : Boolean';
15054:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime ) : Boolean';
15055:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15056:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string ) : TwwDateTimeSelection';
15057:   Function wwScanDate( const S : string; var Date : TDateTime ) : Boolean';
15058:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer ) : Boolean';
15059:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool);
15060:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15061: end;
15062:
15063: unit uPSI_Themes;
15064: Function ThemeServices : TThemeServices';
15065: Function ThemeControl( AControl : TControl ) : Boolean';
15066: Function UnthemedDesigner( AControl : TControl ) : Boolean';
15067: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15068: begin
15069:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String';
15070: end;
15071: Unit uPSC_menus;
15072: Function StripHotkey( const Text : string ) : string';
15073: Function GetHotkey( const Text : string ) : string';
15074: Function AnsiSameCaption( const Text1, Text2 : string ) : Boolean';
15075: Function IsAltGRPressed : boolean';
15076:
15077: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15078: begin
15079:   TCommandEvent','Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15080:   SIRegister_TIdIMAP4Server(CL);
15081: end;
15082:
15083: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15084: begin
15085:   'HASH_SIZE','LongInt'( 256 );
15086:   CL.FindClass('TOBJECT'),'EVariantSymbolTable');
15087:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15088:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15089:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15090:     +' : Integer; Value : Variant; end');
15091:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15092:   SIRegister_TVariantSymbolTable(CL);
15093: end;
15094:
15095: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15096: begin
15097:   SIRegister_TThreadLocalVariables(CL);

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15098: Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar');
15099: //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD');
15100: Function ThreadLocals : TThreadLocalVariables';
15101: Procedure WriteDebug( sz : String );
15102: CL.AddConstantN('UDF_SUCCESS', 'LongInt'( 0 );
15103: 'UDF_FAILURE', 'LongInt'( 1 );
15104: 'cSignificantlyLarger', 'LongInt'( 1024 * 4 );
15105: CL.AddTypeS('mTByteArray', 'array of byte;');
15106: function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15107: function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15108: procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15109: function IsNetworkConnected: Boolean;
15110: function IsInternetConnected: Boolean;
15111: function IsCOMConnected: Boolean;
15112: function IsNetworkOn: Boolean;
15113: function IsInternetOn: Boolean;
15114: function IsCOMON: Boolean;
15115: Function SetTimer(hWnd : HWND; nIDEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15116: Function KillTimer( hWnd : HWND; uIDEvent : UINT ) : BOOL';
15117: Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15118: Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15119: Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15120: Function GetMenu( hWnd : HWND ) : HMENU';
15121: Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15122: end;
15123:
15124: procedure SIRegister_SockTransport(CL: TPPascalCompiler);
15125: begin
15126:   SIRegister_IDataBlock(CL);
15127:   SIRegister_ISendDataBlock(CL);
15128:   SIRegister_ITransport(CL);
15129:   SIRegister_TDataBlock(CL);
15130: //CL.AddTypeS('PIntArray', '__TIntArray // will not work');
15131: //CL.AddTypeS('PVariantArray', '__TVariantArray // will not work');
15132: CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15133: CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15134: SIRegister_TCustomDataBlockInterpreter(CL);
15135: SIRegister_TSndDataBlock(CL);
15136: 'CallSig', 'LongWord')($D800);
15137: 'ResultSig', 'LongWord')($D400);
15138: 'asMask', 'LongWord')($00FF);
15139: CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15140: CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15141: Procedure CheckSignature( Sig : Integer );
15142: end;
15143:
15144: procedure SIRegister_WinInet(CL: TPPascalCompiler);
15145: begin
15146: //CL.AddTypeS('HINTERNET', '__Pointer');
15147: CL.AddTypeS('HINTERNET1', 'THANDLE');
15148: CL.AddTypeS('HINTERNET', 'Integer');
15149: CL.AddTypeS('HINTERNET2', '__Pointer');
15150: //CL.AddTypeS('PHINTERNET', '__HINTERNET // will not work');
15151: //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15152: CL.AddTypeS('INTERNET_PORT', 'Word');
15153: //CL.AddTypeS('PINTERNET_PORT', '__INTERNET_PORT // will not work');
15154: //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15155: Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD) : BOOL;
15156: 'INTERNET_RFC1123_FORMAT', 'LongInt'( 0 );
15157: 'INTERNET_RFC1123_BUFSIZE', 'LongInt'( 30 );
15158: Function InternetCrackUrl(lpszUrl:PChar; dwUrlLength,dwFlags:DWORD; var
lpUrlComponents:TURLComponents):BOOL;
15159: Function InternetCreateUrl(var lpUrlComponts:TURLCompons;dwFlags:DWORD;lpszUrl:PChar;var
dwUrlLength:DWORD):BOOL;
15160: Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15161: Function
  InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15162: Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
;dwContext:DWORD):HINTERNET;
15163: Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
lpszProxyBypass:PChar;dwFlags:DWORD):HINTERNET;
15165: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
dwContext:DWORD):BOOL;
15166: Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15167: Function
  InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15168: Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15169: Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15170: Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15171: Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15172: Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15173: Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15174: Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
lpdwBufferLength : Function InternetCloseHandle( hInet : HINTERNET ) : BOOL');
15175: Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar
;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD; dwContext:DWORD):HINTERNET;
15176: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
dwContext:DWORD):BOOL;

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15178: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
    TWin32FindData; dwFlags : DWORD; dwContext : DWORD) : HINTERNET');
15179: Function WFtpGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
    BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD) : BOOL');
15180: Function
WFtpPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15181: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar) : BOOL');
15182: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15183: Function
FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15184: Function FtpCreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar) : BOOL');
15185: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar) : BOOL');
15186: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar) : BOOL');
15187: Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15188: Function
FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommd:PChar;dwContxt:DWORD):BOOL;
15189: Function IS_GOPHER_FILE( GopherType : DWORD) : BOOL');
15190: Function IS_GOPHER_DIRECTORY( GopherType : DWORD) : BOOL');
15191: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD) : BOOL');
15192: Function IS_GOPHER_ERROR( GopherType : DWORD) : BOOL');
15193: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD) : BOOL');
15194: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD) : BOOL');
15195: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD) : BOOL');
15196: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD) : BOOL');
15197: Function IS_GOPHER_ASK( GopherType : DWORD) : BOOL');
15198: Function IS_GOPHER_PLUS( GopherType : DWORD) : BOOL');
15199: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD) : BOOL');
15200: Function
GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
    PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15201: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15202: Function
GopherOpenFile(hConect:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15203: Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
    PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15204: Function
HttpAddRequestHeaders(hReg:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15205: Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar;
    dwHeadersLength:DWORD;lpoOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15206: Function InternetGetCookie(lpszUrl, lpszCookieName, lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15207: Function InternetAttemptConnect( dwReserved : DWORD) : DWORD';
15208: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD) : BOOL';
15209: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15210: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL) : DWORD';
15211: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject) : Int64';
15212: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject) : Bool';
15213: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
lpFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15214: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var
    lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15215: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15216: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15217: Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15218: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD) : BOOL';
15219: end;
15220:
15221: procedure SIRegister_Wwstr(CL: TPPascalCompiler);
15222: begin
15223:   AddTypeS('str CharSet', 'set of char');
15224:   TwwGetWordOption','(wwgwSkipLeadingBlanks, wwwwQuotesAsWords, wwwwStripQuotes , wwwwSpacesInWords);
15225:   AddTypeS('TwwGetWordOptions', 'set of TwwGetWordOption');
15226:   Procedure strBreakApart( s : string; delimiter : string; parts : TStrings)');
15227:   Function strGetToken( s : string; delimiter : string; var APos : integer) : string');
15228:   Procedure strStripPreceding( var s : string; delimiter : str CharSet)');
15229:   Procedure strStripTrailing( var s : string; delimiter : str CharSet)');
15230:   Procedure strStripWhiteSpace( var s : string)');
15231:   Function strRemoveChar( str : string; removeChar : char) : string');
15232:   Function wwstrReplaceChar( str : string; removeChar, replaceChar : char) : string');
15233:   Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string) : string');
15234:   Function wwEqualStr( s1, s2 : string; boolean)');
15235:   Function strCount( s : string; delimiter : char) : integer');
15236:   Function strWhiteSpace : str CharSet');
15237:   Function wwExtractFileNameOnly( const FileName : string) : string');
15238:   Function wwGetWord(s:string; var APos:integer; Options:TwwGetWordOptions;DelimSet:str CharSet):string;
15239:   Function strTrailing( s : string; delimiter : char) : string');
15240:   Function strPreceding( s : string; delimiter : char) : string');
15241:   Function wwstrReplace( s, Find, Replace : string) : string');
15242: end;
15243:
15244: procedure SIRegister_DataBkr(CL: TPPascalCompiler);
15245: begin
15246:   SIRegister_TRemoteDataModule(CL);
15247:   SIRegister_TCREmoteDataModule(CL);
15248:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)' );
15249:   Procedure UnregisterPooled( const ClassID : string)' );
15250:   Procedure EnableSocketTransport( const ClassID : string)' );
15251:   Procedure DisableSocketTransport( const ClassID : string)' );
15252:   Procedure EnableWebTransport( const ClassID : string)' );

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15253: Procedure DisableWebTransport( const ClassID : string );
15254: end;
15255:
15256: procedure SIRegister_Mathbox(CL: TPSPascalCompiler);
15257: begin
15258:   Function mxArcCos( x : Real ) : Real';
15259:   Function mxArcSin( x : Real ) : Real';
15260:   Function Comp2Str( N : Comp ) : String';
15261:   Function Int2StrPad0( N : LongInt; Len : Integer ) : String';
15262:   Function Int2Str( N : LongInt ) : String';
15263:   Function mxIsEqual( R1, R2 : Double ) : Boolean';
15264:   Function LogXY( x, y : Real ) : Real';
15265:   Function Pennies2Dollars( C : Comp ) : String';
15266:   Function mxPower( X : Integer; Y : Integer ) : Real';
15267:   Function Real2Str( N : Real; Width, Places : integer ) : String';
15268:   Function mxStr2Comp( MyString : string ) : Comp';
15269:   Function mxStr2Pennies( S : String ) : Comp';
15270:   Function Str2Real( MyString : string ) : Real';
15271:   Function XToThey( x, y : Real ) : Real';
15272: end;
15273:
15274: //*****Cindy Functions!*****
15275: procedure SIRegister_cyIndy(CL: TPSPascalCompiler);
15276: begin
15277:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml'
15278:     + '_Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach, '
15279:     + 'cmAlterText_Html_RelatedAttach, cmAlterText_Html_Attach_RelatedAttach, cmReadNotification )');
15280:   MessagePlainText,'String 'text/plain');
15281:   CL.AddConstantN('MessagePlainText_Attach','String 'multipart/mixed');
15282:   MessageAlterText_Html,'String 'multipart/alternative');
15283:   MessageHtml_Attach,'String 'multipart/mixed');
15284:   MessageHtml_RelatedAttach,'String 'multipart/related; type="text/html"');
15285:   MessageAlterText_Html_Attach,'String 'multipart/mixed');
15286:   MessageAlterText_Html_RelatedAttach,'String')('multipart/related;type="multipart/alternative"');
15287:   MessageAlterText_Html_Attach_RelatedAttach,'String 'multipart/mixed');
15288:   MessageReadNotification,'String').('multipart/report; report-type="disposition-notification"');
15289:   Function ForceDecodeHeader( aHeader : String ) : String');
15290:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding ) : string');
15291:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding ) : String');
15292:   Function Base64_DecodeToBytes( Value : String ) : TBytes');
15293:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15294:   Function Get_MD5( const aFileName : string ) : string');
15295:   Function Get_MD5FromString( const aString : string ) : string');
15296: end;
15297:
15298: procedure SIRegister_cySysUtils(CL: TPSPascalCompiler);
15299: begin
15300:   Function IsFolder( SRec : TSearchrec ) : Boolean';
15301:   Function isFolderReadOnly( Directory : String ) : Boolean';
15302:   Function DirectoryIsEmpty( Directory : String ) : Boolean';
15303:   Function DirectoryWithSubDir( Directory : String ) : Boolean';
15304:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings );
15305:   Function DiskFreeBytes( Drv : Char ) : Int64';
15306:   Function DiskBytes( Drv : Char ) : Int64';
15307:   Function GetFileBytes( Filename : String ) : Int64';
15308:   Function GetFilesBytes( Directory, Filter : String ) : Int64';
15309:   SE_CREATE_TOKEN_NAME,'String 'SeCreateTokenPrivilege');
15310:   SE_ASSIGNPRIMARYTOKEN_NAME,'String 'SeAssignPrimaryTokenPrivilege');
15311:   SE_LOCK_MEMORY_NAME,'String 'SeLockMemoryPrivilege');
15312:   SE_INCREASE_QUOTA_NAME,'String 'SeIncreaseQuotaPrivilege');
15313:   SE_UNSOLICITED_INPUT_NAME,'String 'SeUnsolicitedInputPrivilege');
15314:   SE_MACHINE_ACCOUNT_NAME,'String 'SeMachineAccountPrivilege');
15315:   SE_TCB_NAME,'String 'SeTcbPrivilege');
15316:   SE_SECURITY_NAME,'String 'SeSecurityPrivilege');
15317:   SE_TAKE_OWNERSHIP_NAME,'String 'SeTakeOwnershipPrivilege');
15318:   SE_LOAD_DRIVER_NAME,'String 'SeLoadDriverPrivilege');
15319:   SE_SYSTEM_PROFILE_NAME,'String 'SeSystemProfilePrivilege');
15320:   SE_SYSTEMTIME_NAME,'String 'SeSystemtimePrivilege');
15321:   SE_PROF_SINGLE_PROCESS_NAME,'String 'SeProfileSingleProcessPrivilege');
15322:   SE_INC_BASE_PRIORITY_NAME,'String 'SeIncreaseBasePriorityPrivilege');
15323:   SE_CREATE_PAGEFILE_NAME,'String 'SeCreatePagefilePrivilege');
15324:   SE_CREATE_PERMANENT_NAME,'String 'SeCreatePermanentPrivilege');
15325:   SE_BACKUP_NAME,'String 'SeBackupPrivilege');
15326:   SE_RESTORE_NAME,'String 'SeRestorePrivilege');
15327:   SE_SHUTDOWN_NAME,'String 'SeShutdownPrivilege');
15328:   SE_DEBUG_NAME,'String 'SeDebugPrivilege');
15329:   SE_AUDIT_NAME,'String 'SeAuditPrivilege');
15330:   SE_SYSTEM_ENVIRONMENT_NAME,'String 'SeSystemEnvironmentPrivilege');
15331:   SE_CHANGE_NOTIFY_NAME,'String 'SeChangeNotifyPrivilege');
15332:   SE_REMOTE_SHUTDOWN_NAME,'String 'SeRemoteShutdownPrivilege');
15333:   SE_UNDOCK_NAME,'String 'SeUndockPrivilege');
15334:   SE_SYNC_AGENT_NAME,'String 'SeSyncAgentPrivilege');
15335:   SE_ENABLE_DELEGATION_NAME,'String 'SeEnableDelegationPrivilege');
15336:   SE_MANAGE_VOLUME_NAME,'String 'SeManageVolumePrivilege');
15337: end;
15338:
15339:
15340: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15341: begin

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15342: Type(TWindowsVersion', '( vvUnknown, vvWin31, vvWin95, vvWin98, vvWin'
15343:   +'Me, vvWinNT3, vvWinNT4, vvWin2000, vvWinXP, vvWinVista, vvWin7, vvWin8, vvWin8_Or_Upper )');
15344: Function ShellGetExtensionName( FileName : String ) : String');
15345: Function ShellGetIconIndex( FileName : String ) : Integer');
15346: Function ShellGetIconHandle( FileName : String ) : HIcon');
15347: Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string)');
15348: Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string)');
15349: Procedure ShellRenameDir( DirFrom, DirTo : string)');
15350: Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15351: Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15352: Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String)');
15353: Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string)');
15354: Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean');
15355: Procedure RestoreAndSetForegroundWindow( Hnd : Integer)');
15356: Function RemoveDuplicatedPathDelimiter( Str : String ) : String');
15357: Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime');
15358: Function GetModificationDate( Filename : String ) : TDateTime');
15359: Function GetCreationDate( Filename : String ) : TDateTime');
15360: Function GetLastAccessDate( Filename : String ) : TDateTime');
15361: Function FileDelete( Filename : String ) : Boolean');
15362: Function FileIsOpen( Filename : string ) : boolean');
15363: Procedure FileDelete( FromDirectory : String; Filter : ShortString)');
15364: Function DirectoryDelete( Directory : String ) : Boolean');
15365: Function GetPrinters( PrintersList : TStrings ) : Integer');
15366: Procedure SetDefaultPrinter( PrinterName : String)');
15367: Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer)');
15368: Function WinToDosPath( WinPathName : String ) : String');
15369: Function DosToWinPath( DosPathName : String ) : String');
15370: Function cyGetWindowsVersion : TWindowsVersion');
15371: Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean');
15372: Procedure WindowsShutDown( Restart : boolean)');
15373: Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
FileIcon:string;NumIcone:integer);
15374: Procedure GetWindowsFonts( FontsList : TStrings ) );
15375: Function GetAvailableFilename( DesiredFileName : String ) : String');
15376: end;
15377:
15378: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15379: begin
15380:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15381:   Type(TStrLocateOptions', 'set of TStringLocateOption');
15382:   Type(TStringRead', '( srFromLeft, srFromRight )');
15383:   Type(TStringReads', 'set of TStringRead');
15384:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15385:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15386:   Type(TWordsOptions', 'set of TWordsOption');
15387:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15388:   Type(TCarTypes', 'set of TCarType');
15389:   //CL.AddTypeS('TUnicodeCategories', 'set of TUnicodeCategory');
15390:   CarTypealphabetic','LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15391:   Function Char_GetType( aChar : Char ) : TCarType';
15392:   Function SubString_Count( Str : String; Separator : Char ) : Integer');
15393:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word ) : Integer');
15394:   Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word ) : String');
15395:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word ) : Integer');
15396:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String');
15397:   Procedure SubString_Insert(var Str:String;Separator:Char; SubStringIndex:Word; Value : String');
15398:   Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word; NewValue : String');
15399:   Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word ) : Boolean');
15400:   Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15401:   Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer ) : Integer';
15402:   Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String');
15403:   Function String_Quote( Str : String ) : String');
15404:   Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char ) : Char');
15405:   Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15406:   Function String_GetWord( Str : String; StringRead : TStringRead ) : String');
15407:   Function String_GetInteger( Str : String; StringRead : TStringRead ) : String');
15408:   Function StringToInt( Str : String ) : Integer');
15409:   Function String_Uppercase( Str : String; Options : TWordsOptions ) : String');
15410:   Function String_Lowercase( Str : String; Options : TWordsOptions ) : String');
15411:   Function String_Reverse( Str : String ) : String');
15412:   Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15413:   Function String_Pos1(SubStr:String; Str:String; StringRead:TStringRead; Occurrence:Word; CaseSensitive : TCaseSensitive):Integer');
15414:   Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15415:   Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15416:   Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive) : String');
15417:   Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15418:   Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive) : String');
15419:   Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads ) : String');
15420:   Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer ) : String');
15421:   Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15422:   Function String_End( Str : String; Cars : Word ) : String');
15423:   Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean) : String');
15424:   Function String_SubstCar( Str : String; Old, New : Char ) : String');
15425:   Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive) : Integer');

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15426: Function String_SameCars(Str1,Str2:String;StopCount_IfDifferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15427: Function String_IsNumbers( Str : String ) : Boolean';
15428: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer ) : Integer';
15429: Function StringToCsvCell( aStr : String ) : String';
15430: end;
15431:
15432: procedure SIRegister_cyDateUtils(CL: TPSPascalCompiler);
15433: begin
15434:   Function LongDayName( aDate : TDate ) : String';
15435:   Function LongMonthName( aDate : TDate ) : String';
15436:   Function ShortYearOf( aDate : TDate ) : byte';
15437:   Function DateToStrYYYYMMDD( aDate : TDate ) : String';
15438:   Function StrYYYYMMDDToDate( aStr : String ) : TDate';
15439:   Function SecondsToMinutes( Seconds : Integer ) : Double';
15440:   Function MinutesToSeconds( Minutes : Double ) : Integer';
15441:   Function MinutesToHours( Minutes : Integer ) : Double';
15442:   Function HoursToMinutes( Hours : Double ) : Integer';
15443:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime';
15444:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer );
15445:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime';
15446:   Function GetMinutesBetween( DateTimel, DateTimel2 : TDateTime ) : Int64';
15447:   Function GetMinutesBetween1(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15448:   Function GetSecondsBetween( DateTimel, DateTimel2 : TDateTime ) : Int64';
15449:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
  RsltBegin:TDateTime; RsltEnd : TDateTime) : Boolean';
15450:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15451:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean';
15452: end;
15453:
15454: procedure SIRegister_cyObjUtils(CL: TPSPascalCompiler);
15455: begin
15456:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15457:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15458:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15459:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15460:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer';
15461:   Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer';
15462:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer';
15463:   Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind );
15464:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15465:   Function TreeNodeLocate( ParentNode : TTreeNode; Value : String ) : TTreeNode';
15466:   Function TreeNodeLocateOnLevel( TreeView : TTreeView; OnLevel : Integer; Value : String ) : TTreeNode';
15467:   Function
  TreeNodeGetChildFromIndex(TreeView:TTreeView;ParentNode:TTreeNode;ChildIndex:Integer):TTreeNode';
15468:   Function TreeNodeGetParentOnLevel( ChildNode : TTreeNode; ParentLevel : Integer ) : TTreeNode';
15469:   Procedure TreeNodeCopy(FromNode:TTreeNode;ToNode:TTreeNode;const CopyChildren:Boolean;const
  CopySubChildren:Bool;
15470:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormattedString : String );
15471:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15472:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl';
15473:   Procedure cyCenterControl( aControl : TControl );
15474:   Function GetLastParent( aControl : TControl ) : TWinControl';
15475:   Function GetControlBitmap( aControl : TWinControl ) : TBitmap';
15476:   Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap';
15477: end;
15478:
15479: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15480: begin
15481:   Function TablePackTable( Tab : TTable ) : Boolean';
15482:   Function TableRegenIndexes( Tab : TTable ) : Boolean';
15483:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean';
15484:   Function TableUndeleteRecord( Tab : TTable ) : Boolean';
15485:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15486:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean';
15487:   Function TableEmptyTable( Tab : TTable ) : Boolean';
15488:   Function TableFindKey( aTable : TTable; Value : String ) : Boolean';
15489:   Procedure TableFindNearest( aTable : TTable; Value : String );
15490:   Function
  TableCreate(Owner:TComponent;DataBaseName:ShortString;TableName:String;IndexName:ShortString;ReadOnly :
  Boolean):TTable;
15491:   Function
  TableOpen(Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool):Bool;
15492:   Function DateToBDESQLODate( aDate : TDate; const DateFormat : String ) : String';
15493: end;
15494:
15495: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15496: begin
15497:   SIRegister_TcyRunTimeDesign(CL);
15498:   SIRegister_TcyShadowText(CL);
15499:   SIRegister_TcyBgPicture(CL);
15500:   SIRegister_TcyGradient(CL);
15501:   SIRegister_tcyBevel(CL);
15502:   //CL.AddTypes('TcyBevelClass', 'class of tcyBevel');
15503:   SIRegister_tcyBevels(CL);
15504:   SIRegister_TcyImagelistOptions(CL);
15505:   Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15506: end;
15507:
15508: procedure SIRegister_cyGraphics(CL: TPSPascalCompiler);

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15509: begin
15510:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
adgradOrientation : TDgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
Maxdegrade : Byte;' );
15511:   SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap)' );
15512:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor:TColor;MaxDegrad : byte);
15513:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad:byte);
15514:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad : Byte;
toRect : TRect; OrientationShape : TDgradOrientationShape)' );
15515:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad : Byte;
AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap)' );
15516:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer)' );
15517:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer);');
15518:   Procedure cyFrame3( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
BottomColor : TColor; const Width : Integer; const RoundRect : boolean);');
15519:   Procedure cyFrame3D(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
BottomRightColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Bool;const DrawRight:Bool;const
DrawBottom:Bool;const RoundRect:bool);
15520:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean)' );
15521:   Procedure cyDrawButton(Canvas:TCanvas;Caption:String;ARect:TRect;GradientColor1,GradientColor2:TColor;
aState : TButtonState; Focused, Hot : Boolean)' );
15522:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean)' );
15523:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean)' );
15524:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor)' );
15525:   Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer)' );
15526:   Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
TAlignment;Layout:TTextLayout;WordWrap:Bool):LongInt;
15527:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt;';
15528:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt)' );
15529:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont;';
15530:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont;';
15531:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout)' );
15532:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
Integer; const OnlyCalcFoldLine : Boolean) : TLineCoord;';
15533:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
Integer; const OnlyCalcFoldLine : Boolean) : TLineCoord;';
15534:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint):boolean';
15535:   Function IconIsTransparentAtPos( alIcon : TIcon; aPoint : TPoint ) : boolean';
15536:   Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean';
15537:   Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean';
15538:   Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect);');
15539:   Procedure DrawCanvas1(Destination:TCanvas;
DestRect:TRect;Src:TCanvas;SrcRect:TRect;TransparentColor:TColor; const aStyle:TBgStyle; const
aPosition:TBgPosition; const IndentX : Integer; const IndentY : Integer;const IntervalX : Integer; const
IntervalY : Integer; const RepeatX:Integer;const RepeatY:Integer);
15540:   Procedure DrawGraphic( Destination : TCanvas; DestRect : TRect; aGraphic : TGraphic; SrcRect : TRect;
TransparentColor:TColor; const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer;
const IndentY:Integer;const IntervalX:Integer;const IntervalY:Integer;const RepeatX:Integer;const
RepeatY:Integer);
15541:   Procedure DrawGraphic1(Destination:TCanvas; DestRect:TRect;aGraphic : TGraphic; Transparent : Boolean;
const aStyle : TBgStyle; const aPosition : TBgPosition; const IndentX : Integer; const IndentY : Integer;
const IntervalX:Integer; const IntervalY : Integer; const RepeatX:Integer; const RepeatY:Integer);');
15542:   Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap)' );
15543:   Function ValidGraphic( aGraphic : TGraphic ) : Boolean';
15544:   Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor)';
15545:   Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor)';
15546:   Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor)';
15547:   Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor)';
15548:   Function MediumColor( Color1, Color2 : TColor ) : TColor)';
15549:   Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect)';
15550:   Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect)';
15551:   Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect)';
15552:   Procedure InflateRectPercent( var aRect : TRect; withPercent : Double)' );
15553:   Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect)';
15554:   Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect)';
15555:   Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean)';
15556:   Function PointInEllispe( const aPt : TPoint; const aRect : TRect ) : boolean)';
15557:   Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer)';
15558: end;
15559:
15560: procedure SIRegister_cyTypes(CL: TPPascalCompiler);
15561: begin
15562:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight )');
15563:   Type(TGlyphLayout', '( glTop, glCenter, glBottom )');
15564:   Type(TDisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome )');
15565:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis )');
15566:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed )');
15567:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
+ bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft )');
15568:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional )');
15569:   Type(TcyBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext )');
15570:   Type(TDgradOrientation', '( dgVertical, dgHorizontal, dgdAngle, dgdRadial, dgdRectangle )');

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15572: Type(TDgradOrientationShape', '(
15573:   osRadial, osRectangle
15574: );
15574: Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15574:   bmInvertReverseFromColor);
15574: Type(TRunTimeDesignJob', '(
15574:   rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15574:   rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight
15574: );
15575: Type(TLineCoord', 'record BottomCoord : TPoint; TopCoord : TPoint; end');
15576: cCaptionOrientationWarning', 'String')('Note that text orientation doesn''t work with all fonts!');
15577: end;
15578:
15579: procedure SIRegister_WinSvc(CL: TPPSPascalCompiler);
15580: begin
15581:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15582:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15583:   Const SERVICES_ACTIVE_DATABASE', 'String') 'SERVICES_ACTIVE_DATABASEA');
15584:   Const SERVICES_FAILED_DATABASEA', 'String' 'ServicesFailed');
15585:   Const SERVICES_FAILED_DATABASEW', 'String') 'ServicesFailed');
15586:   Const SERVICES_FAILED_DATABASE', 'String') 'SERVICES_FAILED_DATABASEA');
15587:   Const SC_GROUP_IDENTIFIERA', 'String') '+' );
15588:   Const SC_GROUP_IDENTIFIERW', 'String') '+' );
15589:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15590:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFF');
15591:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15592:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15593:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15594:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15595:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15596:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15597:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15598:   Const SERVICE_STOPPED', 'LongWord $00000001);
15599:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15600:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15601:   Const SERVICE_RUNNING', 'LongWord $00000004);
15602:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15603:   Const SERVICE_PAUSE_PENDING', 'LongWord $00000006);
15604:   Const SERVICE_PAUSED', 'LongWord $00000007);
15605:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15606:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15607:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15608:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15609:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15610:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15611:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15612:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15613:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15614:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15615:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15616:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15617:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15618:   Const SERVICE_START', 'LongWord $0010);
15619:   Const SERVICE_STOP', 'LongWord $0020);
15620:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15621:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15622:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15623:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15624:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15625:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15626:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15627:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15628:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15629:   Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15630:   Const SERVICE_BOOT_START', 'LongWord $00000000);
15631:   Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15632:   Const SERVICE_AUTO_START', 'LongWord $00000002);
15633:   Const SERVICE_DEMAND_START', 'LongWord $00000003);
15634:   Const SERVICE_DISABLED', 'LongWord $00000004);
15635:   Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15636:   Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15637:   Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15638:   Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15639:   CL.AddTypeS('SC_HANDLE', 'THandle');
15640: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15641:   CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15642:   Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState :
15643:     +': DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15644:     +'cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15645:   Const SERVICE_STATUS', '_SERVICE_STATUS');
15646:   Const TServiceStatus', '_SERVICE_STATUS');
15647:   CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15648:     +'playName : PChar; ServiceStatus : TServiceStatus; end');
15649:   ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15650:   _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15651:   TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15652:   TEnumServiceStatus', 'TEnumServiceStatusA');
15653:   SC_LOCK', '__Pointer');
15654:   _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOner: PChar; dwLockDuration:DWORD; end';
15655:   _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15656:   QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15657:   QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15658:   TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');

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15659: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15660: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15661: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15662: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15663: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15664: +'iceStartName : PChar; lpdisplayName : PChar; end');
15665: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15666: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15667: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15668: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15669: TQueryServiceConfig', 'TQueryServiceConfigA');
15670: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL');
15671: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15672: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;''
15673: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE );
15674: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;''
15675: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE );
15676: Function DeleteService( hService : SC_HANDLE ) : BOOL');
15677: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL');
15678: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEhunServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD):BOOL');
15679: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15680: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceNme,lpDisplayName:PChar;var
lpcchBuffer:DWORD):BOOL;
15681: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK );
15682: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL');
15683: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE );
15684: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE );
15685: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL');
15686: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15687: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15688: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15689: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL');
15690: end;
15691:
15692: procedure SIRegister_JvPickDate(CL: TPPascalCompiler);
15693: begin
15694: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends: TDaysOfWeek; AWeekendColor:TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate: TDateTime):Boolean;
15695: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfweek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDateTime;
15696: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15697: Function CreatePopupCalendar(AOwner: TComponent; ABiDiMode: TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):TWinControl;
15698: Procedure SetupPopupCalendar( PopupCalendar : TWinControl; AStartOfWeek : TDayOfWeekName; AWeekends :
TDaysOfweek; AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:
TDateTime)');
15699: Function CreateNotifyThread(const
FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15700: end;
15701:
15702: procedure SIRegister_JclNTFS2(CL: TPPascalCompiler);
15703: begin
15704: CL.AddClassN(CL.FindClass('TOBJECT'), 'EJclNtfsError');
15705: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15706: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean');
15707: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState;');
15708: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean');
15709: Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)');
15710: Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)');
15711: Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)');
15712: Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)');
15713: Function NtfsSetSparse2( const FileName : string ) : Boolean');
15714: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean');
15715: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean');
15716: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean');
15717: Function NtfsGetSparse2( const FileName : string ) : Boolean');
15718: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean');
15719: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean');
15720: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean');
15721: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean');
15722: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean');
15723: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean');
15724: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean');
15725: Function NtfsMountVolume2( const Volume : WideString; const MountPoint : WideString ) : Boolean');
15726: CL.AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
15727: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15728: Function NtfsOpLockBreakAckN022( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15729: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15730: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean');
15731: Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ) : Boolean');
15732: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean');

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15733: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15734: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination : string ) : Boolean';
15735: CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15736:   +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile ')');
15737: CL.AddTypeS('TStreamIds', 'set of TStreamId ');
15738: TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds : TStreamIds; end');
15739: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15740:   +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15741: Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Bool;
15742: Function NtfsFindNextStream2( var Data : TFindStreamData) : Boolean');
15743: Function NtfsFindStreamClose2( var Data : TFindStreamData) : Boolean');
15744: Function NtfsCreateHardlink2( const LinkFileName, ExistingFileName : string ) : Boolean';
15745: Function NtfsCreateHardlinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15746: Function NtfsCreateHardlinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15747: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15748: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo) : Boolean';
15749: Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
List:TStrings):Bool
15750: Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15751: FindClass('TOBJECT','EJclFileSummaryError');
15752: TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )');
15753: TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )');
15754: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean';
15755: CL.AddClassN(CL.FindClass('TOBJECT'),'TJclFileSummary');
15756: SIRegister_TJclFilePropertySet(CL);
15757: //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15758: SIRegister_TJclFileSummary(CL);
15759: SIRegister_TJclFileSummaryInformation(CL);
15760: SIRegister_TJclDocSummaryInformation(CL);
15761: SIRegister_TJclMediaFileSummaryInformation(CL);
15762: SIRegister_TJclMSIInformation(CL);
15763: SIRegister_TJclShellSummaryInformation(CL);
15764: SIRegister_TJclStorageSummaryInformation(CL);
15765: SIRegister_TJclImageSummaryInformation(CL);
15766: SIRegister_TJclDisplacedSummaryInformation(CL);
15767: SIRegister_TJclBriefCaseSummaryInformation(CL);
15768: SIRegister_TJclMiscSummaryInformation(CL);
15769: SIRegister_TJclWebViewSummaryInformation(CL);
15770: SIRegister_TJclMusicSummaryInformation(CL);
15771: SIRegister_TJclDRMSummaryInformation(CL);
15772: SIRegister_TJclVideoSummaryInformation(CL);
15773: SIRegister_TJclAudioSummaryInformation(CL);
15774: SIRegister_TJclControlPanelSummaryInformation(CL);
15775: SIRegister_TJclVolumeSummaryInformation(CL);
15776: SIRegister_TJclShareSummaryInformation(CL);
15777: SIRegister_TJclLinkSummaryInformation(CL);
15778: SIRegister_TJclQuerySummaryInformation(CL);
15779: SIRegister_TJclImageInformation(CL);
15780: SIRegister_TJclJpegSummaryInformation(CL);
15781: end;
15782:
15783: procedure SIRegister_Jcl8087(CL: TPSPascalCompiler);
15784: begin
15785:   AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15786:   T8087Rounding', '( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate )');
15787:   T8087Infinity', '( icProjective, icAffine )');
15788:   T8087Exception', '( emInvalidOp,emDenormalizedOperand,emZeroDivide,emOverflow,emUnderflow,emPrecision';
15789:   CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15790:   Function Get8087ControlWord : Word');
15791:   Function Get8087Infinity : T8087Infinity');
15792:   Function Get8087Precision : T8087Precision');
15793:   Function Get8087Rounding : T8087Rounding');
15794:   Function Get8087StatusWord( ClearExceptions : Boolean ) : Word');
15795:   Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity');
15796:   Function Set8087Precision( const Precision : T8087Precision ) : T8087Precision');
15797:   Function Set8087Rounding( const Rounding : T8087Rounding ) : T8087Rounding');
15798:   Function Set8087ControlWord( const Control : Word ) : Word');
15799:   Function ClearPending8087Exceptions : T8087Exceptions');
15800:   Function GetPending8087Exceptions : T8087Exceptions');
15801:   Function GetMasked8087Exceptions : T8087Exceptions');
15802:   Function SetMasked8087Exceptions(Exceptions: T8087Exceptions;ClearBefore:Boolean):T8087Exceptions');
15803:   Function Mask8087Exceptions( Exceptions:T8087Exceptions ) : T8087Exceptions');
15804:   Function Unmask8087Exceptions(Exceptions:T8087Exceptions;ClearBefore : Boolean) : T8087Exceptions');
15805: end;
15806:
15807: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
15808: begin
15809:   CL.AddDelphiFunction('Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)');
15810:   Procedure BoxMoveAllItems( SrcList, DstList : TWinControl );
15811:   Procedure BoxDragOver( List : TWinControl; Source : TObject; X, Y : Integer; State : TDragState; var
Accept : Boolean; Sorted : Boolean)');
15812:   Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer );
15813:   Procedure BoxMoveSelected( List : TWinControl; Items : TStrings );
15814:   Procedure BoxSetItem( List : TWinControl; Index : Integer );
15815:   Function BoxGetFirstSelection( List : TWinControl ) : Integer );
15816:   Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean );
15817: end;
15818:
15819: procedure SIRegister_UrlMon(CL: TPSPascalCompiler);

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15820: begin
15821: //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString( 'URL Context');
15822: //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString( 'AsyncCallee');
15823: CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6);
15824: type ULONG, 'Cardinal';
15825:     LPCWSTR, 'PChar';
15826: CL.AddTypeS('LPWSTR', 'PChar');
15827: LPSTR, 'PChar';
15828: TBindVerb, 'ULONG';
15829: TBindInfoF, 'ULONG';
15830: TBindF, 'ULONG';
15831: TBSDF, 'ULONG';
15832: TBindStatus, 'ULONG';
15833: TCIPStatus, 'ULONG';
15834: TBindString, 'ULONG';
15835: TPFlags, 'ULONG';
15836: TOIBdgFlags, 'ULONG';
15837: TParseAction, 'ULONG';
15838: TPSUAction, 'ULONG';
15839: TQueryOption, 'ULONG';
15840: TPUAF, 'ULONG';
15841: TSZMFlags, 'ULONG';
15842: TUrlZone, 'ULONG';
15843: TUrlTemplate, 'ULONG';
15844: TZAFlags, 'ULONG';
15845: TUrlZoneReg, 'ULONG';
15846: 'URLMON_OPTION_USERAGENT', 'LongWord').SetUInt( $10000001);
15847: CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH', 'LongWord').SetUInt( $10000002);
15848: const 'URLMON_OPTION_URL_ENCODING', 'LongWord').SetUInt( $10000004);
15849: const 'URLMON_OPTION_USE_BINDSTRINGCREDS', 'LongWord').SetUInt( $10000008);
15850: const 'CF_NULL', 'LongInt').SetInt( 0);
15851: const 'CFSTR_MIME_NULL', 'LongInt').SetInt( 0);
15852: const 'CFSTR_MIME_TEXT', 'String').SetString( 'text/plain');
15853: const 'CFSTR_MIME_RICHTEXT', 'String').SetString( 'text/richtext');
15854: const 'CFSTR_MIME_X_BITMAP', 'String').SetString( 'image/x-bitmap');
15855: const 'CFSTR_MIME_POSTSCRIPT', 'String').SetString( 'application/postscript');
15856: const 'CFSTR_MIME_AIFF', 'String').SetString( 'audio/aiff');
15857: const 'CFSTR_MIME_BASICAUDIO', 'String').SetString( 'audio/basic');
15858: const 'CFSTR_MIME_WAV', 'String').SetString( 'audio/wav');
15859: const 'CFSTR_MIME_X_WAV', 'String').SetString( 'audio/x-wav');
15860: const 'CFSTR_MIME_GIF', 'String').SetString( 'image/gif');
15861: const 'CFSTR_MIME_PJPEG', 'String').SetString( 'image/pjpeg');
15862: const 'CFSTR_MIME_JPEG', 'String').SetString( 'image/jpeg');
15863: const 'CFSTR_MIME_TIFF', 'String').SetString( 'image/tiff');
15864: const 'CFSTR_MIME_X_PNG', 'String').SetString( 'image/x-png');
15865: const 'CFSTR_MIME_BMP', 'String').SetString( 'image/bmp');
15866: const 'CFSTR_MIME_X_ART', 'String').SetString( 'image/x-jg');
15867: const 'CFSTR_MIME_X_EMF', 'String').SetString( 'image/x-emf');
15868: const 'CFSTR_MIME_X_WMF', 'String').SetString( 'image/x-wmf');
15869: const 'CFSTR_MIME_AVI', 'String').SetString( 'video/avi');
15870: const 'CFSTR_MIME_MPEG', 'String').SetString( 'video/mpeg');
15871: const 'CFSTR_MIME_FRACTALS', 'String').SetString( 'application/fractals');
15872: const 'CFSTR_MIME_RAWDATA', 'String').SetString( 'application/octet-stream');
15873: const 'CFSTR_MIME_RAWDATASTRM', 'String').SetString( 'application/octet-stream');
15874: const 'CFSTR_MIME_PDF', 'String').SetString( 'application/pdf');
15875: const 'CFSTR_MIME_X_AIFF', 'String').SetString( 'audio/x-aiff');
15876: const 'CFSTR_MIME_X_REALAUDIO', 'String').SetString( 'audio/x-pn-realaudio');
15877: const 'CFSTR_MIME_XBM', 'String').SetString( 'image/xbm');
15878: const 'CFSTR_MIME_QUICKTIME', 'String').SetString( 'video/quicktime');
15879: const 'CFSTR_MIME_X_MSVIDEO', 'String').SetString( 'video/x-msvideo');
15880: const 'CFSTR_MIME_X_SGI_MOVIE', 'String').SetString( 'video/x-sgi-movie');
15881: const 'CFSTR_MIME_HTML', 'String').SetString( 'text/html');
15882: const 'MK_S_ASYNCRONOUS', 'LongWord').SetUInt( $000401E8);
15883: const 'S_ASYNCRONOUS', 'LongWord').SetUInt( $000401E8);
15884: const 'E_PENDING', 'LongWord').SetUInt( $8000000A);
15885: CL.AddInterface(CL.FindInterface('UNKNOWN'),IBinding, 'IBinding');
15886: SIRegister_IPersistMoniker(CL);
15887: SIRegister_IBindProtocol(CL);
15888: SIRegister_IBinding(CL);
15889: const 'BINDVERB_GET', 'LongWord').SetUInt( $00000000);
15890: const 'BINDVERB_POST', 'LongWord').SetUInt( $00000001);
15891: const 'BINDVERB_PUT', 'LongWord').SetUInt( $00000002);
15892: const 'BINDVERB_CUSTOM', 'LongWord').SetUInt( $00000003);
15893: const 'BINDINFO_URLCODEDESTGMEDDATA', 'LongWord').SetUInt( $00000001);
15894: const 'BINDINFO_URLCODEDEXTRAINFO', 'LongWord').SetUInt( $00000002);
15895: const 'BINDF_ASYNCRONOUS', 'LongWord').SetUInt( $00000001);
15896: const 'BINDF_ASYNCSTORAGE', 'LongWord').SetUInt( $00000002);
15897: const 'BINDF_NOPROGRESSIVERENDERING', 'LongWord').SetUInt( $00000004);
15898: const 'BINDF_OFFLINEOPERATION', 'LongWord').SetUInt( $00000008);
15899: const 'BINDF_GETNEWESTVERSION', 'LongWord').SetUInt( $00000010);
15900: const 'BINDF_NOWRITECACHE', 'LongWord').SetUInt( $00000020);
15901: const 'BINDF_NEEDFILE', 'LongWord').SetUInt( $00000040);
15902: const 'BINDF_PULLDATA', 'LongWord').SetUInt( $00000080);
15903: const 'BINDF_IGNORESECURITYPROBLEM', 'LongWord').SetUInt( $00000100);
15904: const 'BINDF_RESYNCHRONIZE', 'LongWord').SetUInt( $00000200);
15905: const 'BINDF_HYPERLINK', 'LongWord').SetUInt( $00000400);
15906: const 'BINDF_NO_UI', 'LongWord').SetUInt( $00000800);
15907: const 'BINDF_SILENTOPERATION', 'LongWord').SetUInt( $00001000);
15908: const 'BINDF_PRAGMA_NO_CACHE', 'LongWord').SetUInt( $00002000);

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15909: const 'BINDF_FREE_THREADED','LongWord').SetUInt( $00010000);
15910: const 'BINDF_DIRECT_READ','LongWord').SetUInt( $00020000);
15911: const 'BINDF_FORMS_SUBMIT','LongWord').SetUInt( $00040000);
15912: const 'BINDF_GETFROMCACHE_IF_NET_FAIL','LongWord').SetUInt( $00080000);
15913: //const 'BINDF_DONTUSECACHE','').SetString( BINDF_GETNEWESTVERSION);
15914: //const 'BINDF_DONTPUTINCACHE','').SetString( BINDF_NOWRITECACHE);
15915: //const 'BINDF_NOCOPYDATA','').SetString( BINDF_PULLDATA);
15916: const 'BSCF_FIRSTDATANOTIFICATION','LongWord').SetUInt( $00000001);
15917: const 'BSCF_INTERMEDIATEDATANOTIFICATION','LongWord').SetUInt( $00000002);
15918: const 'BSCF_LASTDATANOTIFICATION','LongWord').SetUInt( $00000004);
15919: const 'BSCF_DATAFULLYAVAILABLE','LongWord').SetUInt( $00000008);
15920: const 'BSCF_AVAILABLEDATABASIZEUNKNOWN','LongWord').SetUInt( $00000010);
15921: const 'BINDSTATUS_FINDINGRESOURCE','LongInt').SetInt( 1);
15922: const 'BINDSTATUS_CONNECTING','LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
15923: const 'BINDSTATUS_REDIRECTING','LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
15924: const 'BINDSTATUS_BEGINDOWNLOADADDA','LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
15925: const 'BINDSTATUS_DOWNLOADINGADDA','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADADDA + 1);
15926: const 'BINDSTATUS_ENDDOWNLOADADDA','LongInt').SetInt( BINDSTATUS_DOWNLOADINGADDA + 1);
15927: const 'BINDSTATUS_BEGINDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADADDA + 1);
15928: const 'BINDSTATUS_INSTALLINGCOMPONENTS','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADCOMPONENTS + 1);
15929: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
15930: const 'BINDSTATUS_USINGCACHEDCOPY','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
15931: const 'BINDSTATUS_SENDINGREQUEST','LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
15932: const 'BINDSTATUS_CLASSIDAVAILABLE','LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
15933: const 'BINDSTATUS_MIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
15934: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
15935: const 'BINDSTATUS_BEGINNSYNCOPERATION','LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
15936: const 'BINDSTATUS_ENDNSYNCOPERATION','LongInt').SetInt( BINDSTATUS_BEGINNSYNCOPERATION + 1);
15937: const 'BINDSTATUS_BEGINUPLOADADDA','LongInt').SetInt( BINDSTATUS_ENDNSYNCOPERATION + 1);
15938: const 'BINDSTATUS_UPLOADINGADDA','LongInt').SetInt( BINDSTATUS_BEGINUPLOADADDA + 1);
15939: const 'BINDSTATUS_ENDUPLOADADDA','LongInt').SetInt( BINDSTATUS_UPLOADINGADDA + 1);
15940: const 'BINDSTATUS_PROTOCOLCLASSID','LongInt').SetInt( BINDSTATUS_ENDUPLOADADDA + 1);
15941: const 'BINDSTATUS_ENCODING','LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
15942: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_ENCODING + 1);
15943: const 'BINDSTATUS_CLASSINSTALLLOCATION','LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
15944: const 'BINDSTATUS_DECODING','LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
15945: const 'BINDSTATUS_LOADINGMIMEHANDLER','LongInt').SetInt( BINDSTATUS_DECODING + 1);
15946: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH','LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
15947: const 'BINDSTATUS_FILTERREPORTMIMETYPE','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
15948: const 'BINDSTATUS_CLSIDCANINSTANTIATE','LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
15949: const 'BINDSTATUS_IUNKNOWNAVAILABLE','LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
15950: const 'BINDSTATUS_DIRECTBIND','LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
15951: const 'BINDSTATUS_RAWMIMETYPE','LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
15952: const 'BINDSTATUS_PROXYDETECTING','LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
15953: const 'BINDSTATUS_ACCEPTRANGES','LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
15954: const 'BINDSTATUS_COOKIE_SENT','LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
15955: const 'BINDSTATUS_COMPACT_POLICY_RECEIVED','LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
15956: const 'BINDSTATUS_COOKIE_SUPPRESSED','LongInt').SetInt( BINDSTATUS_COMPACT_POLICY_RECEIVED + 1);
15957: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN','LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
15958: const 'BINDSTATUS_COOKIE_STATE_ACCEPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
15959: const 'BINDSTATUS_COOKIE_STATE_REJECT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
15960: const 'BINDSTATUS_COOKIE_STATE_PROMPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
15961: const 'BINDSTATUS_COOKIE_STATE_LEASH','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
15962: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
15963: const 'BINDSTATUS_POLICY_HREF','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
15964: const 'BINDSTATUS_P3P_HEADER','LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
15965: const 'BINDSTATUS_SESSION_COOKIE_RECEIVED','LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
15966: const 'BINDSTATUS_PERSISTENT_COOKIE_RECEIVED','LongInt').SetInt( BINDSTATUS_SESSION_COOKIE_RECEIVED + 1);
15967: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED','LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE_RECEIVED + 1);
15968: const 'BINDSTATUS_CACHECONTROL','LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
15969: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME','LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
15970: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
15971: const 'BINDSTATUS_PUBLISHERAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
15972: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
15973: // PBindInfo', '^TBindInfo // will not work');
15974: {_tagBindINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
15975: +'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
15976: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
15977: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
15978: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
15979: TBindInfo', '_tagBindINFO');
15980: BINDINFO', '_tagBindINFO');
15981: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
15982: +'cryptor : DWORD; bInheritHandle : BOOL; end');
15983: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
15984: REMSECURITY_ATTRIBUTES', '_REMSecurity_ATTRIBUTES');
15985: //PREmBindInfo', '^TRemBindInfo // will not work';
15986: {_tagRemBindINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR, '
15987: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
15988: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWOR'
15989: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknow'
15990: +'n; dwReserved : DWORD; end');
15991: TRemBindInfo', '_tagRemBindINFO');
15992: RemBINDINFO', '_tagRemBindINFO');
15993: //PREmFormatEtc', '^TRemFormatEtc // will not work';
15994: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
15995: TRemFormatEtc', 'tagRemFORMATETC');
15996: RemFORMATETC', 'tagRemFORMATETC');
15997: SIRegister_IBindStatusCallback(CL);

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15998: SIRегистrieren_IAuthenticate(CL);
15999: SIRегистrieren_IHttpNegotiate(CL);
16000: SIRегистrieren_IWindowForBindingUI(CL);
16001: const 'CIP_DISK_FULL', 'LongInt').SetInt( 0 );
16002: const 'CIP_ACCESS_DENIED', 'LongInt').SetInt( CIP_DISK_FULL + 1 );
16003: const 'CIP_NEWER_VERSION_EXISTS', 'LongInt').SetInt( CIP_ACCESS_DENIED + 1 );
16004: const 'CIP_OLDER_VERSION_EXISTS', 'LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1 );
16005: const 'CIP_NAME_CONFLICT', 'LongInt').SetInt( CIP_OLDER_VERSION_EXISTS + 1 );
16006: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING', 'LongInt').SetInt( CIP_NAME_CONFLICT + 1 );
16007: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT', 'LongInt').SetInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1 );
16008: const 'CIP_UNSAFE_TO_ABORT', 'LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1 );
16009: const 'CIP_NEED_REBOOT', 'LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1 );
16010: const 'CIP_NEED_REBOOT_UI_PERMISSION', 'LongInt').SetInt( CIP_NEED_REBOOT + 1 );
16011: SIRегистrieren_ICodeInstall(CL);
16012: SIRегистrieren_IWinInetInfo(CL);
16013: const 'WININETINFO_OPTION_LOCK_HANDLE', 'LongInt').SetInt( 65534 );
16014: SIRегистrieren_IHttpSecurity(CL);
16015: SIRегистrieren_IWinInetHttpInfo(CL);
16016: SIRегистrieren_IBindHost(CL);
16017: const 'URLOSTRM_USECACHEDCOPY_ONLY', 'LongWord').SetUInt( $00000001 );
16018: const 'URLOSTRM_USECACHEDCOPY', 'LongWord').SetUInt( $00000002 );
16019: const 'URLOSTRM_GETNEWESTVERSION', 'LongWord').SetUInt( $00000003 );
16020: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16021: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult';
16022: Function URLDownloadToFile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB : IBindStatusCallback ) : HResult';
16023: Function URLDownloadToCachefile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 : IBindStatusCallback ) : HResult';
16024: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out p3:IStream;p4:DWORD;p5:IBindStatusCallback):HResult';
16025: Function HlinkGoBack( unk : IUnknown ) : HResult';
16026: Function HlinkGoForward( unk : IUnknown ) : HResult';
16027: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult';
16028: // Function HlinkNavigateMoniker( unk : IUnknown; mkTarget : IMoniker ) : HResult';
16029: SIRегистрировать_IInternet(CL);
16030: const 'BINDSTRING_HEADERS', 'LongInt').SetInt( 1 );
16031: const 'BINDSTRING_ACCEPT_MIMES', 'LongInt').SetInt( BINDSTRING_HEADERS + 1 );
16032: const 'BINDSTRING_EXTRA_URL', 'LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1 );
16033: const 'BINDSTRING_LANGUAGE', 'LongInt').SetInt( BINDSTRING_EXTRA_URL + 1 );
16034: const 'BINDSTRING_USERNAME', 'LongInt').SetInt( BINDSTRING_LANGUAGE + 1 );
16035: const 'BINDSTRING_PASSWORD', 'LongInt').SetInt( BINDSTRING_USERNAME + 1 );
16036: const 'BINDSTRING_UA_PIXELS', 'LongInt').SetInt( BINDSTRING_PASSWORD + 1 );
16037: const 'BINDSTRING_UA_COLOR', 'LongInt').SetInt( BINDSTRING_UA_PIXELS + 1 );
16038: const 'BINDSTRING_OS', 'LongInt').SetInt( BINDSTRING_UA_COLOR + 1 );
16039: const 'BINDSTRING_USER_AGENT', 'LongInt').SetInt( BINDSTRING_OS + 1 );
16040: const 'BINDSTRING_ACCEPT_ENCODINGS', 'LongInt').SetInt( BINDSTRING_USER_AGENT + 1 );
16041: const 'BINDSTRING_POST_COOKIE', 'LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1 );
16042: const 'BINDSTRING_POST_DATA_MIME', 'LongInt').SetInt( BINDSTRING_POST_COOKIE + 1 );
16043: const 'BINDSTRING_URL', 'LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1 );
16044: //POLEStrArray', '^TOLESTRArrray // will not work';
16045: SIRегистрировать_IInternetBindInfo(CL);
16046: const 'PI_PARSE_URL', 'LongWord').SetUInt( $00000001 );
16047: const 'PI_FILTER_MODE', 'LongWord').SetUInt( $00000002 );
16048: const 'PI_FORCE_ASYNC', 'LongWord').SetUInt( $00000004 );
16049: const 'PI_USE_WORKERTHREAD', 'LongWord').SetUInt( $00000008 );
16050: const 'PI_MIMEVERIFICATION', 'LongWord').SetUInt( $00000010 );
16051: const 'PI_CLSIDLOOKUP', 'LongWord').SetUInt( $00000020 );
16052: const 'PI_DATAPROGRESS', 'LongWord').SetUInt( $00000040 );
16053: const 'PI_SYNCHRONOUS', 'LongWord').SetUInt( $00000080 );
16054: const 'PI_APARTMENTTHREADED', 'LongWord').SetUInt( $00000100 );
16055: const 'PI_CLASSINSTALL', 'LongWord').SetUInt( $00000200 );
16056: const 'PD_FORCE_SWITCH', 'LongWord').SetUInt( $00010000 );
16057: //const 'PI_DOCFILECLSIDLOOKUP', '').SetString( PI_CLSIDLOOKUP );
16058: //PProtocolData', '^TProtocolData // will not work';
16059: _tagPROTOCOLDATA', record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end );
16060: TProtocolData', '_tagPROTOCOLDATA');
16061: PROTOCOLDATA', '_tagPROTOCOLDATA');
16062: CL.AddInterface(CL.FindInterface('IUNKNOWN'), IIInternetProtocolSink, 'IIInternetProtocolSink');
16063: SIRегистрировать_IInternetProtocolRoot(CL);
16064: SIRегистрировать_IInternetProtocol(CL);
16065: SIRегистрировать_IInternetProtocolSink(CL);
16066: const 'OIBDG_APARTMENTTHREADED', 'LongWord').SetUInt( $00000100 );
16067: SIRегистрировать_IInternetSession(CL);
16068: SIRегистрировать_IInternetThreadSwitch(CL);
16069: SIRегистрировать_IInternetPriority(CL);
16070: const 'PARSE_CANONICALIZE', 'LongInt').SetInt( 1 );
16071: const 'PARSE_FRIENDLY', 'LongInt').SetInt( PARSE_CANONICALIZE + 1 );
16072: const 'PARSE_SECURITY_URL', 'LongInt').SetInt( PARSE_FRIENDLY + 1 );
16073: const 'PARSE_ROOTDOCUMENT', 'LongInt').SetInt( PARSE_SECURITY_URL + 1 );
16074: const 'PARSE_DOCUMENT', 'LongInt').SetInt( PARSE_ROOTDOCUMENT + 1 );
16075: const 'PARSE_ANCHOR', 'LongInt').SetInt( PARSE_DOCUMENT + 1 );
16076: const 'PARSE_ENCODE', 'LongInt').SetInt( PARSE_ANCHOR + 1 );
16077: const 'PARSE_DECODE', 'LongInt').SetInt( PARSE_ENCODE + 1 );
16078: const 'PARSE_PATH_FROM_URL', 'LongInt').SetInt( PARSE_DECODE + 1 );
16079: const 'PARSE_URL_FROM_PATH', 'LongInt').SetInt( PARSE_PATH_FROM_URL + 1 );
16080: const 'PARSE_MIME', 'LongInt').SetInt( PARSE_URL_FROM_PATH + 1 );
16081: const 'PARSE_SERVER', 'LongInt').SetInt( PARSE_MIME + 1 );
16082: const 'PARSE_SCHEMA', 'LongInt').SetInt( PARSE_SERVER + 1 );
16083: const 'PARSE_SITE', 'LongInt').SetInt( PARSE_SCHEMA + 1 );

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16084: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16085: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16086: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16087: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16088: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16089: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16090: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16091: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16092: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16093: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16094: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16095: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16096: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16097: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16098: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16099: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16100: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16101: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16102: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16103: SIRegister_IInternetProtocolInfo(CL);
16104: IOInet', 'IInternet');
16105: IOInetBindInfo', 'IInternetBindInfo');
16106: IOInetProtocolRoot', 'IInternetProtocolRoot');
16107: IOInetProtocol', 'IInternetProtocol');
16108: IOInetProtocolSink', 'IInternetProtocolSink');
16109: IOInetProtocolInfo', 'IInternetProtocolInfo');
16110: IOInetSession', 'IInternetSession');
16111: IOInetPriority', 'IInternetPriority');
16112: IOInetThreadSwitch', 'IInternetThreadSwitch');
16113: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16114: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16115: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16116: Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags:DWORD; dwReserved:DWORD):HResult';
16117: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16118: Function CoInternetGetSession(dwSessionMode:DWORD; var pIIInternetSession: IInternetSession;dwReserved:DWORD):HResult;
16119: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUri:LPWSTR;psuAct:TProtocolSecurityAction;dwReserv:DWORD):HResult;
16120: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16121: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult';
16122: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult';
16123: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult';
16124: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult';
16125: Function OInetGetSession(dwSessionMode:DWORD; var pIIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16126: //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16127: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16128: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult( $800C0011 ) );
16129: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult( $800C0012 ) );
16130: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult( $800C0011 ) );
16131: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult( $800C0013 ) );
16132: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult( $800C0014 ) );
16133: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001 );
16134: SIRegister_IInternetSecurityMgrSite(CL);
16135: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001 );
16136: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002 );
16137: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080 );
16138: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100 );
16139: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400 );
16140: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512 );
16141: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000 );
16142: const 'PUAF_NOUI','LongWord').SetUInt( $00000001 );
16143: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002 );
16144: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004 );
16145: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008 );
16146: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010 );
16147: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020 );
16148: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040 );
16149: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080 );
16150: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100 );
16151: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200 );
16152: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400 );
16153: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000 );
16154: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000 );
16155: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000 );
16156: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000 );
16157: const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000 );
16158: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0 );
16159: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1 );
16160: const 'SZM_CREATE','LongWord').SetUInt( $00000000 );
16161: const 'SZM_DELETE','LongWord').SetUInt( $00000001 );
16162: SIRegister_IInternetSecurityManager(CL);
16163: SIRegister_IInternetHostSecurityManager(CL);

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16164:     SIRegister_IInternetSecurityManagerEx(CL);
16165:     const 'URLACTION_MIN', 'LongWord').SetUInt( $00001000);
16166:     const 'URLACTION_DOWNLOAD_MIN', 'LongWord').SetUInt( $00001000);
16167:     const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX', 'LongWord').SetUInt( $00001001);
16168:     const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX', 'LongWord').SetUInt( $00001004);
16169:     const 'URLACTION_DOWNLOAD_CURR_MAX', 'LongWord').SetUInt( $00001004);
16170:     const 'URLACTION_DOWNLOAD_MAX', 'LongWord').SetUInt( $000011FF);
16171:     const 'URLACTION_ACTIVEX_MIN', 'LongWord').SetUInt( $00001200);
16172:     const 'URLACTION_ACTIVEX_RUN', 'LongWord').SetUInt( $00001200);
16173:     const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY', 'LongWord').SetUInt( $00001201);
16174:     const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY', 'LongWord').SetUInt( $00001202);
16175:     const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY', 'LongWord').SetUInt( $00001203);
16176:     const 'URLACTION_SCRIPT_OVERRIDE_SAFETY', 'LongWord').SetUInt( $00001401);
16177:     const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY', 'LongWord').SetUInt( $00001204);
16178:     const 'URLACTION_ACTIVEX_TREATASUNTRUSTED', 'LongWord').SetUInt( $00001205);
16179:     const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT', 'LongWord').SetUInt( $00001206);
16180:     const 'URLACTION_ACTIVEX_CURR_MAX', 'LongWord').SetUInt( $00001206);
16181:     const 'URLACTION_ACTIVEX_MAX', 'LongWord').SetUInt( $000013FF);
16182:     const 'URLACTION_SCRIPT_MIN', 'LongWord').SetUInt( $00001400);
16183:     const 'URLACTION_SCRIPT_RUN', 'LongWord').SetUInt( $00001400);
16184:     const 'URLACTION_SCRIPT_JAVA_USE', 'LongWord').SetUInt( $00001402);
16185:     const 'URLACTION_SCRIPT_SAFE_ACTIVEX', 'LongWord').SetUInt( $00001405);
16186:     const 'URLACTION_SCRIPT_CURR_MAX', 'LongWord').SetUInt( $00001405);
16187:     const 'URLACTION_SCRIPT_MAX', 'LongWord').SetUInt( $000015FF);
16188:     const 'URLACTION_HTML_MIN', 'LongWord').SetUInt( $00001600);
16189:     const 'URLACTION_HTML_SUBMIT_FORMS', 'LongWord').SetUInt( $00001601);
16190:     const 'URLACTION_HTML_SUBMIT_FORMS_FROM', 'LongWord').SetUInt( $00001602);
16191:     const 'URLACTION_HTML_SUBMIT_FORMS_TO', 'LongWord').SetUInt( $00001603);
16192:     const 'URLACTION_HTML_FONT_DOWNLOAD', 'LongWord').SetUInt( $00001604);
16193:     const 'URLACTION_HTML_JAVA_RUN', 'LongWord').SetUInt( $00001605);
16194:     const 'URLACTION_HTML_CURR_MAX', 'LongWord').SetUInt( $00001605);
16195:     const 'URLACTION_HTML_MAX', 'LongWord').SetUInt( $000017FF);
16196:     const 'URLACTION_SHELL_MIN', 'LongWord').SetUInt( $00001800);
16197:     const 'URLACTION_SHELL_INSTALL_DTITEMS', 'LongWord').SetUInt( $00001800);
16198:     const 'URLACTION_SHELL_MOVE_OR_COPY', 'LongWord').SetUInt( $00001802);
16199:     const 'URLACTION_SHELL_FILE_DOWNLOAD', 'LongWord').SetUInt( $00001803);
16200:     const 'URLACTION_SHELL_VERB', 'LongWord').SetUInt( $00001804);
16201:     const 'URLACTION_SHELL_WEBVIEW_VERB', 'LongWord').SetUInt( $00001805);
16202:     const 'URLACTION_SHELL_SHELLEXECUTE', 'LongWord').SetUInt( $00001806);
16203:     const 'URLACTION_SHELL_EXECUTE_HIGHRISK', 'LongWord').SetUInt( $00001806);
16204:     const 'URLACTION_SHELL_EXECUTE_MODRISK', 'LongWord').SetUInt( $00001807);
16205:     const 'URLACTION_SHELL_EXECUTE_LOWRISK', 'LongWord').SetUInt( $00001808);
16206:     const 'URLACTION_SHELL_POPUPMGR', 'LongWord').SetUInt( $00001809);
16207:     const 'URLACTION_SHELL_CURR_MAX', 'LongWord').SetUInt( $00001809);
16208:     const 'URLACTION_SHELL_MAX', 'LongWord').SetUInt( $000019FF);
16209:     const 'URLACTION_NETWORK_MIN', 'LongWord').SetUInt( $00001A00);
16210:     const 'URLACTION_CREDENTIALS_USE', 'LongWord').SetUInt( $00001A00);
16211:     const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK', 'LongWord').SetUInt( $00000000);
16212:     const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER', 'LongWord').SetUInt( $00010000);
16213:     const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT', 'LongWord').SetUInt( $00020000);
16214:     const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY', 'LongWord').SetUInt( $00030000);
16215:     const 'URLACTION_AUTHENTICATE_CLIENT', 'LongWord').SetUInt( $00001A01);
16216:     const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK', 'LongWord').SetUInt( $00000000);
16217:     const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE', 'LongWord').SetUInt( $00010000);
16218:     const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY', 'LongWord').SetUInt( $00030000);
16219:     const 'URLACTION_NETWORK_CURR_MAX', 'LongWord').SetUInt( $00001A01);
16220:     const 'URLACTION_NETWORK_MAX', 'LongWord').SetUInt( $00001BFF);
16221:     const 'URLACTION_JAVA_MIN', 'LongWord').SetUInt( $00001C00);
16222:     const 'URLACTION_JAVA_PERMISSIONS', 'LongWord').SetUInt( $00001C00);
16223:     const 'URLPOLICY_JAVA_PROHIBIT', 'LongWord').SetUInt( $00000000);
16224:     const 'URLPOLICY_JAVA_HIGH', 'LongWord').SetUInt( $00010000);
16225:     const 'URLPOLICY_JAVA_MEDIUM', 'LongWord').SetUInt( $00020000);
16226:     const 'URLPOLICY_JAVA_LOW', 'LongWord').SetUInt( $00030000);
16227:     const 'URLPOLICY_JAVA_CUSTOM', 'LongWord').SetUInt( $00800000);
16228:     const 'URLACTION_JAVA_CURR_MAX', 'LongWord').SetUInt( $00001C00);
16229:     const 'URLACTION_JAVA_MAX', 'LongWord').SetUInt( $00001CFF);
16230:     const 'URLACTION_INFODELIVERY_MIN', 'LongWord').SetUInt( $00001D00);
16231:     const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS', 'LongWord').SetUInt( $00001D00);
16232:     const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS', 'LongWord').SetUInt( $00001D01);
16233:     const 'URLACTION_INFODELIVERY_NO_Removing_CHANNELS', 'LongWord').SetUInt( $00001D02);
16234:     const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D03);
16235:     const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D04);
16236:     const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D05);
16237:     const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING', 'LongWord').SetUInt( $00001D06);
16238:     const 'URLACTION_INFODELIVERY_CURR_MAX', 'LongWord').SetUInt( $00001D06);
16239:     const 'URLACTION_INFODELIVERY_MAX', 'LongWord').SetUInt( $00001Dff);
16240:     const 'URLACTION_CHANNEL_SOFTDIST_MIN', 'LongWord').SetUInt( $00001E00);
16241:     const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS', 'LongWord').SetUInt( $00001E05);
16242:     const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT', 'LongWord').SetUInt( $00010000);
16243:     const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE', 'LongWord').SetUInt( $00020000);
16244:     const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL', 'LongWord').SetUInt( $00030000);
16245:     const 'URLACTION_CHANNEL_SOFTDIST_MAX', 'LongWord').SetUInt( $00001EFF);
16246:     const 'URLACTION_BEHAVIOR_MIN', 'LongWord').SetUInt( $00002000);
16247:     const 'URLACTION_BEHAVIOR_RUN', 'LongWord').SetUInt( $00002000);
16248:     const 'URLPOLICY_BEHAVIOR_CHECK_LIST', 'LongWord').SetUInt( $00010000);
16249:     const 'URLACTION_FEATURE_MIN', 'LongWord').SetUInt( $00002100);
16250:     const 'URLACTION_FEATURE_MIME_SNIFFING', 'LongWord').SetUInt( $00002100);
16251:     const 'URLACTION_FEATURE_ZONE_ELEVATION', 'LongWord').SetUInt( $00002101);
16252:     const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS', 'LongWord').SetUInt( $00002102);

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16253: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN', 'LongWord').SetUInt( $00002200);
16254: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI', 'LongWord').SetUInt( $00002200);
16255: const 'URLACTION_AUTOMATIC_ACTIVEX_UI', 'LongWord').SetUInt( $00002201);
16256: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS', 'LongWord').SetUInt( $00002300);
16257: const 'URLPOLICY_ALLOW', 'LongWord').SetUInt( $00);
16258: const 'URLPOLICY_QUERY', 'LongWord').SetUInt( $01);
16259: const 'URLPOLICY_DISALLOW', 'LongWord').SetUInt( $03);
16260: const 'URLPOLICY_NOTIFY_ON_ALLOW', 'LongWord').SetUInt( $10);
16261: const 'URLPOLICY_NOTIFY_ON_DISALLOW', 'LongWord').SetUInt( $20);
16262: const 'URLPOLICY_LOG_ON_ALLOW', 'LongWord').SetUInt( $40);
16263: const 'URLPOLICY_LOG_ON_DISALLOW', 'LongWord').SetUInt( $80);
16264: const 'URLPOLICY_MASK_PERMISSIONS', 'LongWord').SetUInt( $0f);
16265: Function GetUrlPolicyPermissions( dw : DWORD) : DWORD');
16266: Function SetUrlPolicyPermissions( dw, dw2 : DWORD) : DWORD');
16267: const 'URLZONE_PREDEFINED_MIN', 'LongInt').SetInt( 0);
16268: const 'URLZONE_LOCAL_MACHINE', 'LongInt').SetInt( 0);
16269: const 'URLZONE_INTRANET', 'LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16270: const 'URLZONE_TRUSTED', 'LongInt').SetInt( URLZONE_INTRANET + 1);
16271: const 'URLZONE_UNTRUSTED', 'LongInt').SetInt( URLZONE_INTERNET + 1);
16272: const 'URLZONE_PREDEFINED_MAX', 'LongInt').SetInt( 999);
16273: const 'URLZONE_USER_MIN', 'LongInt').SetInt( 1000);
16274: const 'URLZONE_USER_MAX', 'LongInt').SetInt( 10000);
16275: const 'URLTEMPLATE_CUSTOM', 'LongWord').SetUInt( $00000000);
16277: const 'URLTEMPLATE_PREDEFINED_MIN', 'LongWord').SetUInt( $00010000);
16278: const 'URLTEMPLATE_LOW', 'LongWord').SetUInt( $00010000);
16279: const 'URLTEMPLATE_MEDIUM', 'LongWord').SetUInt( $00011000);
16280: const 'URLTEMPLATE_HIGH', 'LongWord').SetUInt( $00012000);
16281: const 'URLTEMPLATE_PREDEFINED_MAX', 'LongWord').SetUInt( $00020000);
16282: const 'MAX_ZONE_PATH', 'LongInt').SetInt( 260);
16283: const 'MAX_ZONE_DESCRIPTION', 'LongInt').SetInt( 200);
16284: const 'ZAFLAGS_CUSTOM_EDIT', 'LongWord').SetUInt( $00000001);
16285: const 'ZAFLAGS_ADD_SITES', 'LongWord').SetUInt( $00000002);
16286: const 'ZAFLAGS_REQUIRE_VERIFICATION', 'LongWord').SetUInt( $00000004);
16287: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE', 'LongWord').SetUInt( $00000008);
16288: const 'ZAFLAGS_INCLUDE_INTRANET_SITES', 'LongWord').SetUInt( $00000010);
16289: const 'ZAFLAGS_NO_UI', 'LongWord').SetUInt( $00000020);
16290: const 'ZAFLAGS_SUPPORTS_VERIFICATION', 'LongWord').SetUInt( $00000040);
16291: const 'ZAFLAGS_UNC_AS_INTRANET', 'LongWord').SetUInt( $00000080);
16292: const 'ZAFLAGS_USE_LOCKED_ZONES', 'LongWord').SetUInt( $00010000);
16293: //PZoneAttributes', '_TZoneAttributes // will not work');
16294: _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');
16295: { _ZONEATTRIBUTES = packed record
16296:   cbSize: ULONG;
16297:   szDisplayName: array [0..260 - 1] of WideChar;
16298:   szDescription: array [0..200 - 1] of WideChar;
16299:   szIconPath: array [0..260 - 1] of WideChar;
16300:   dwTemplateMinLevel: DWORD;
16301:   dwTemplateRecommended: DWORD;
16302:   dwTemplateCurrentLevel: DWORD;
16303:   dwFlags: DWORD;
16304: end;
16305: TZoneAttributes', '_ZONEATTRIBUTES');
16306: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16307: const 'URLZONEREG_DEFAULT', 'LongInt').SetInt( 0);
16308: const 'URLZONEREG_HKLM', 'LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16309: const 'URLZONEREG_HKCU', 'LongInt').SetInt( URLZONEREG_HKLM + 1);
16310: SIRegister_IInternetZoneManager(CL);
16311: SIRegister_IInternetZoneManagerEx(CL);
16312: const 'SOFTDIST_FLAG_USAGE_EMAIL', 'LongWord').SetUInt( $00000001);
16313: const 'SOFTDIST_FLAG_USAGE_PRECACHE', 'LongWord').SetUInt( $00000002);
16314: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL', 'LongWord').SetUInt( $00000004);
16315: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION', 'LongWord').SetUInt( $00000008);
16316: const 'SOFTDIST_ADSTATE_NONE', 'LongWord').SetUInt( $00000000);
16317: const 'SOFTDIST_ADSTATE_AVAILABLE', 'LongWord').SetUInt( $00000001);
16318: const 'SOFTDIST_ADSTATE_DOWNLOADED', 'LongWord').SetUInt( $00000002);
16319: const 'SOFTDIST_ADSTATE_INSTALLED', 'LongWord').SetUInt( $00000003);
16320: //PCCodeBaseHold', '^TCodeBaseHold // will not work');
16321: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16322:   + 'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionsLS : DWORD; dwStyle : DWORD; end');
16323: TCodeBaseHold', '_tagCODEBASEHOLD');
16324: CODEBASEHOLD', '_tagCODEBASEHOLD');
16325: //PSofDistInfo', '^TSofDistInfo // will not work');
16326: _tagSOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd';
16327:   + 'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI';
16328:   + 'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS';
16329:   + ' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve';
16330:   + 'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16331: TSofDistInfo', '_tagSOFTDISTINFO');
16332: SOFTDISTINFO', '_tagSOFTDISTINFO');
16333: SIRegister_ISoftDistExt(CL);
16334: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSofDistInfo) : HResult');
16335: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS, dwAdvertisedVersionLS : DWORD) : HResult');
16336: SIRegister_IDatafilter(CL);
16337: // PProtocolFilterData', '^TProtocolFilterData // will not work');
16338: _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : '

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16339: +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16340: +'terFlags : DWORD; end');
16341: TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16342: PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16343: //PDataInfo', '^TDataInfo // will not work');
16344: _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16345: +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16346: TDataInfo', '_tagDATAINFO');
16347: DATAINFO', '_tagDATAINFO');
16348: SIRегистre_ENCODINGFilterFactory(CL);
16349: Function IsLoggingEnabled( pszUrl : PChar ) : BOOL');
16350: //Function IsLoggingEnabledA( pszUrl : PAnsiChar ) : BOOL');
16351: //Function IsLoggingEnabledW( pszUrl : PWideChar ) : BOOL');
16352: //PHitLoggingInfo', 'THitLoggingInfo // will not work');
16353: _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16354: +rlName : LPSTR; StartTime : TSystemTime; EndTime : TSystemTime; lpszExtendedInfo : LPSTR; end');
16355: THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16356: HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16357: Function WriteHitLogging( const Logginginfo : THitLoggingInfo ) : BOOL');
16358: end;
16359:
16360: procedure SIRегистre_DFFUtils(CL: TPSPascalCompiler);
16361: begin
16362: Procedure reformatMemo( const m : TCustomMemo );
16363: Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer );
16364: Procedure MoveToTop( memo : TMemo );
16365: Procedure ScrollToTop( memo : TMemo );
16366: Function LineNumberClicked( memo : TMemo ) : integer );
16367: Function MemoClickedLine( memo : TMemo ) : integer );
16368: Function ClickedMemoLine( memo : TMemo ) : integer );
16369: Function MemoLineClicked( memo : TMemo ) : integer );
16370: Function LinePositionClicked( Memo : TMemo ) : integer );
16371: Function ClickedMemoPosition( memo : TMemo ) : integer );
16372: Function MemoPositionClicked( memo : TMemo ) : integer );
16373: Procedure AdjustGridSize( grid : TDrawGrid );
16374: Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer );
16375: Procedure InsertGridRow( Grid : TStringGrid; const ARow : integer );
16376: Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer );
16377: Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascendant : boolean);
16378: Procedure sortstrDown( var s : string );
16379: Procedure sortstrUp( var s : string );
16380: Procedure rotatestrleft( var s : string );
16381: Function dffstrtofloatdef( s : string; default : extended ) : extended );
16382: Function deblank( s : string );
16383: Function IntToBinaryString( const n : integer; MinLength : integer ) : string );
16384: Procedure FreeAndClearListBox( C : TListBox );
16385: Procedure FreeAndClearMemo( C : TMemo );
16386: Procedure FreeAndClearStringList( C : TStringList );
16387: Function dffgetfilesize( f : TSearchrec ) : int64 );
16388: end;
16389:
16390: procedure SIRегистre_MathsLib(CL: TPSPascalCompiler);
16391: begin
16392: CL.AddTypeS('intset', 'set of byte');
16393: TPoint64', 'record x : int64; y : int64; end');
16394: Function GetNextPandigital( size : integer; var Digits : array of integer ) : boolean );
16395: Function IsPolygonal( T : int64; var rank : array of integer ) : boolean );
16396: Function GeneratePentagon( n : integer ) : integer );
16397: Function IsPentagon( p : integer ) : boolean );
16398: Function isSquare( const N : int64 ) : boolean );
16399: Function isCube( const N : int64 ) : boolean );
16400: Function isPalindrome( const n : int64 ) : boolean );
16401: Function isPalindromel( const n : int64; var len : integer ) : boolean );
16402: Function GetEulerPhi( n : int64 ) : int64 );
16403: Function dffIntPower( a, b : int64 ) : int64 );
16404: Function IntPowerl( a : extended; b : int64 ) : extended );
16405: Function gcd2( a, b : int64 ) : int64 );
16406: Function GCDMany( A : array of integer ) : integer );
16407: Function LCMMany( A : array of integer ) : integer );
16408: Procedure ContinuedFraction(A: array of int64; const wholepart:integer;var numerator,denominator:int64);
16409: Function dffFactorial( n : int64 ) : int64 );
16410: Function digitcount( n : int64 ) : integer );
16411: Function nextpermute( var a : array of integer ) : boolean );
16412: Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string );
16413: Function convertStringToDecimal( s : string; var n : extended ) : Boolean );
16414: Function InttoBinaryStr( nn : integer ) : string );
16415: Function StrtoAngle( const s : string; var angle : extended ) : boolean );
16416: Function AngleToStr( angle : extended ) : string );
16417: Function deg2rad( deg : extended ) : extended );
16418: Function rad2deg( rad : extended ) : extended );
16419: Function GetLongToMercProjection( const long : extended ) : extended );
16420: Function GetLatToMercProjection( const Lat : Extended ) : Extended );
16421: Function GetMercProjectionToLong( const Projlong : extended ) : extended );
16422: Function GetMercProjectionToLat( const ProjLat : extended ) : extended );
16423: SIRегистre_TPrimes(CL);
16424: //RIRegister_TPrimes(CL);
16425: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16426: CL.AddConstantN('minmark','LongInt').SetInt( 180));
16427: Function Random64( const N : Int64 ) : Int64 );

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16428: Procedure Randomize64');
16429: Function Random641 : extended;');
16430: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)');
16431: end;
16432:
16433: procedure SIRegister_UGeometry(CL: TPSPPascalCompiler);
16434: begin
16435:   TrealPoint', 'record x : extended; y : extended; end');
16436:   Tline', 'record p1 : TPoint; p2 : TPoint; end');
16437:   TRealLine', 'record p1 : TRealPoint; p2 : TRealPoint; end');
16438:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16439:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16440:   PPResult', '( POutSide, PPIInside, PPVertex, PPEdge, PPError )');
16441:   Function realpoint( x, y : extended ) : TRealPoint');
16442:   Function dist( const p1, p2 : TrealPoint ) : extended');
16443:   Function intdist( const p1, p2 : TPoint ) : integer');
16444:   Function dffline( const p1, p2 : TPoint ) : Tline');
16445:   Function Line1( const p1, p2 : TRealPoint ) : TRealLine');
16446:   Function dffCircle( const cx, cy, R : integer ) : TCircle');
16447:   Function Circle1( const cx, cy, R : extended ) : TRealCircle');
16448:   Function GetTheta( const L : TLine ) : extended');
16449:   Function GetTheta1( const p1, p2 : TPoint ) : extended');
16450:   Function GetTheta2( const p1, p2 : TRealPoint ) : extended');
16451:   Procedure Extendline( var L : TLine; dist : integer );
16452:   Procedure ExtendLine1( var L : TRealLine; dist : extended );
16453:   Function Linesintersect( line1, line2 : TLine ) : boolean');
16454:   Function ExtendedLinesIntersect(Line1,Line2:TLine; const extendlines:bool;var IP:TPoint):bool;
16455:   Function ExtendedLinesIntersect1(const Line1,Line2:TLine;const extendlines:boolean;var
IP:TRealPoint):bool;
16456:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean');
16457:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine');
16458:   Function PerpDistance( L : TLine; P : TPoint ) : Integer');
16459:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine');
16460:   Function AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16461:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult');
16462:   Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var
Clockwise:boolean):integer;
16463:   Procedure InflatePolygon( const points : array of Tpoint; var points2 : array of TPoint; var area : integer;
const screenCoordinates : boolean; const inflateby : integer );
16464:   Function PolyBuiltClockwise( const points : array of TPoint; const screencoordinates : boolean ) : boolean');
16465:   Function DegToRad( d : extended ) : extended');
16466:   Function RadtoDeg( r : extended ) : extended');
16467:   Procedure TranslateLeftTo( var L : TRealLine; newend : TPoint );
16468:   Procedure TranslateLeftTo1( var L : Trealline; newend : TreallPoint );
16469:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16470:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16471:   Procedure RotateRightEndTo1( var p1, p2 : Treallpoint; alpha : extended );
16472:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint ) : boolean );
16473:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint ) : boolean );
16474:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean );
16475:   Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,Tl1,Tl2:TLine):Bool;
16476: end;
16477:
16478:
16479: procedure SIRegister_UAstronomy(CL: TPSPPascalCompiler);
16480: begin
16481:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat )');
16482:   TDType', '( ttLocal, ttUT, ttGST, ttLST )');
16483:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16484:   TSunrec', 'record TrueEclLon:extended;
AppEclLon:extended;AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
TrueAzAl1:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRPoint;SunMeanAnomaly:extended;end;
16485:   TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
+ ' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'
16486:   + 'arth : extended; Phase : extended; end');
16487:   TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16488:   + 'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDateTime; end');
16489:   TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16490:   + 'ct : TDatetime; LastContact : TDateTime; Magnitude:Extended; MaxeclipseUTime:TDateTime; end');
16491:   TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16492:   TPlanetRec', 'record AsOf : TDateTime; Name : string; MeanLon : '
16493:   + 'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16494:   + 'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16495:   + 'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16496:   TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentri'
16497:   + 'cLonLat : TRpoint; RadiusVector : extended; UncorrectedEarthDistance : ext'
16498:   + 'ended; GeoEclLonLat : TRPoint; CorrectedEarthDistance:extended; ApparentRaDecl : TRPoint; end');
16499:   SIRegister_TAstronomy(CL);
16500:   Function AngleToStr( angle : extended ) : string');
16501:   Function StrToAngle( s : string; var angle : extended ) : boolean');
16502:   Function HoursToStr24( t : extended ) : string');
16503:   Function RPoint( x, y : extended ) : TRPoint');
16504:   Function getStimename( t : TDType ) : string');
16505:   end;
16506:
16507:
16508: procedure SIRegister_UCardComponentV2(CL: TPSPPascalCompiler);
16509: begin

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16510: TCardValue', 'Integer');
16511: TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16512: TShortSuit', '( cardS, cardD, cardC, cardH )');
16513: Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16514: SIRegister_TCard(CL);
16515: SIRegister_TDeck(CL);
16516: end;
16517:
16518: procedure SIRegister_UTGraphSearch(CL: TPSPascalCompiler);
16519: begin
16520:   tMethodCall', 'Procedure');
16521:   tVerboseCall', 'Procedure ( s : string)');
16522: // PTEdge', '^TEdge // will not work');
16523: TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16524:   +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16525: SIRegister_TNode(CL);
16526: SIRegister_TGraphList(CL);
16527: end;
16528:
16529: procedure SIRegister_UParser10(CL: TPSPascalCompiler);
16530: begin
16531:   ParserFloat', 'extended');
16532: //PParserFloat', '^ParserFloat // will not work');
16533: TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod'
16534:   +'ulo, IntDiv, IntDIV2, integerpower, realpower, square, third, fourth, FuncOneVar, FuncTwoVar ');
16535: //POperation', '^TOperation // will not work');
16536: TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16537:   +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure'
16538:   +'; Token : TDFFToken; end');
16539: TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16540: (CL.FindClass('TOBJECT'), 'EMathParserError');
16541: CL.FindClass('TOBJECT'), 'ESyntaxError');
16542: (CL.FindClass('TOBJECT'), 'EExpressionHasBlanks');
16543: (CL.FindClass('TOBJECT'), 'EExpressionTooComplex');
16544: (CL.FindClass('TOBJECT'), 'ETooManyNestings');
16545: (CL.FindClass('TOBJECT'), 'EMissMatchingBracket');
16546: (CL.FindClass('TOBJECT'), 'EBadName');
16547: (CL.FindClass('TOBJECT'), 'EParseInternalError');
16548: ('TExParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16549: SIRegister_TCustomParser(CL);
16550: SIRegister_TExParser(CL);
16551: end;
16552:
16553:
16554:
16555: {A simple Oscilloscope using TWaveIn class.
16556: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
16557: uses
16558:   Forms,
16559:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
16560:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
16561:   uColorFunctions in 'uColorFunctions.pas',
16562:   AMixer in 'AMixer.pas',
16563:   uSettings in 'uSettings.pas',
16564:   UWavein4 in 'UWavein4.pas',
16565:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
16566:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
16567:
16568:
16569: Functions_max hex in the box maxbox
16570: functionslist.txt
16571: FunctionsList1 3.9.9.86/88/91/92/94/95
16572:
16573: ****
16574: Procedure
16575: PROCEDURE SIZE 7507 7401 6792 6310 5971 4438 3797 3600
16576: Procedure *****Now the Procedure list*****
16577: Procedure ( ACol, ARow : Integer; Items : TStrings)
16578: Procedure ( Agg : TAggregate)
16579: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
16580: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
16581: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
16582: Procedure ( ASender : TObject; const ABytes : Integer)
16583: Procedure ( ASender : TObject; VStream : TStream)
16584: Procedure ( AThread : TIdThread)
16585: Procedure ( AWebModule : TComponent)
16586: Procedure ( Column : TColumn)
16587: Procedure ( const AUsername : String; const APASSWORD : String; AAuthenticationResult : Boolean)
16588: Procedure ( const iStart : integer; const sText : string)
16589: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
16590: Procedure ( Database : TDatabase; LoginParams : TStrings)
16591: Procedure ( DataSet:TCustomClientDataSet;E:EReconcileError;UpdateKind:TUpdateKind;var Action: TReconcileAction)
16592: Procedure ( DATASET : TDATASET)
16593: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
16594: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
16595: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
16596: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
16597: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)

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16598: Procedure ( Done : Integer)
16599: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
16600: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
16601: Procedure
  (HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState)
16602: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
16603: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
16604: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
16605: Procedure ( Sender : TCustomListView;const ARect : TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
16606: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
16607: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
16608: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
16609: Procedure ( SENDER : TFIELD; const TEXT : String)
16610: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
16611: Procedure ( Sender : TIdTelnet; const Buffer : String)
16612: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
16613: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
16614: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
16615: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
16616: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
16617: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
16618: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
16619: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
16620: Procedure ( Sender : TObject; Button : TMPBtnType)
16621: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
16622: Procedure ( Sender : TObject; Button : TUDBtnType)
16623: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
16624: Procedure ( Sender: TObject; ClientSocket: TServerClientWinSocket; var SocketThread : TServerClientThread)
16625: Procedure ( Sender : TObject; Column : TListColumn)
16626: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
16627: Procedure ( Sender : TObject; Connecting : Boolean)
16628: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var
  DoneDraw:Bool
16629: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
16630: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
16631: Procedure ( Sender: TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
16632: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
16633: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
16634: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
16635: Procedure ( Sender : TObject; Index : LongInt)
16636: Procedure ( Sender : TObject; Item : TListItem)
16637: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
16638: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
16639: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
16640: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
16641: Procedure ( Sender : TObject; Item : TListItem; var S : string)
16642: Procedure ( Sender : TObject; Item2 : TListItem; Data : Integer; var Compare : Integer)
16643: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
16644: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
16645: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
16646: Procedure ( Sender : TObject; Node : TTreenode)
16647: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
16648: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
16649: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
16650: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
16651: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
16652: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
16653: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
16654: Procedure ( Sender : TObject; Rect : TRect)
16655: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
16656: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
16657: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
16658: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
16659: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
16660: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
16661: Procedure ( SENDER : TOBJECT; SOURCE : TMENUITEM; REBUILD : BOOLEAN)
16662: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
16663: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
16664: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
16665: Procedure ( Sender : TObject; Thread : TServerClientThread)
16666: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
16667: Procedure ( Sender : TObject; Username, Password : string)
16668: Procedure ( Sender : TObject; var AllowChange : Boolean)
16669: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
16670: Procedure ( Sender : TObject; var Caption : string; var Alignment : THTMLCaptionAlignment)
16671: Procedure ( Sender : TObject; var Continue : Boolean)
16672: Procedure ( Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMethod:TIdHTTPMethod)
16673: Procedure ( Sender : TObject; var Username : string)
16674: Procedure ( Sender : TObject; Wnd : HWND)
16675: Procedure ( Sender : TToolbar; Button : TToolBar)
16676: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
16677: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
16678: Procedure ( Sender : TToolBar; Index : Integer; var Allow : Boolean)
16679: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolBar)
16680: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
16681: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
16682: Procedure ( var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
16683: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
16684: procedure (Sender: TObject)

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16685: procedure (Sender: TObject; var Done: Boolean)
16686: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
16687: procedure _T(Name: tbtString; v: Variant);
16688: Procedure AbandonSignalHandler( RtlSigNum : Integer)
16689: Procedure Abort
16690: Procedure About1Click( Sender : TObject)
16691: Procedure Accept( Socket : TSocket)
16692: Procedure AESEsymetricExecute(const plaintext, ciphertext, password: string)
16693: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
16694: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
16695: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
16696: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
16697: Procedure Add( Addend1, Addend2 : TMyBigInt)
16698: Procedure ADD( const AKEY, AVALUE : VARIANT)
16699: Procedure Add( const Key : string; Value : Integer)
16700: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
16701: Procedure ADD( FIELD : TFIELD)
16702: Procedure ADD( ITEM : TMENUITEM)
16703: Procedure ADD( POPUP : TPOPUPMENU)
16704: Procedure AddCharacters( xCharacters : TCharSet)
16705: Procedure AddDriver( const Name : string; List : TStrings)
16706: Procedure AddImages( Value : TCustomImageList)
16707: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
16708: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
16709: Procedure AddLoader( Loader : TBitmapLoader)
16710: Procedure ADDPARAM( VALUE : TPARAM)
16711: Procedure AddPassword( const Password : string)
16712: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
16713: Procedure AddState( oState : TniRegularExpressionState)
16714: Procedure AddStrings( Strings : TStrings);
16715: procedure AddStrings(Strings: TStrings);
16716: Procedure AddStringS1( Strings : TWideStrings);
16717: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
16718: Procedure AddToRecentDocs( const Filename : string)
16719: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
16720: Procedure AllFunctionsList1Click( Sender : TObject)
16721: procedure AllObjectsList1Click(Sender: TObject);
16722: Procedure Allocate( AAllocateBytes : Integer)
16723: procedure AllResourceList1Click(Sender: TObject);
16724: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
16725: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
16726: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
16727: Procedure AnsiFree( var s : AnsiString)
16728: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
16729: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
16730: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
16731: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
16732: Procedure AntiFreeze;
16733: Procedure APPEND
16734: Procedure Append( const S : WideString)
16735: procedure Append(S: string);
16736: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
16737: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
16738: Procedure AppendChunk( Val : OleVariant)
16739: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
16740: Procedure AppendStr( var Dest : string; S : string)
16741: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALen : Integer)
16742: Procedure ApplyRange
16743: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
16744: Procedure Arrange( Code : TListArrangement)
16745: procedure Assert(expr : Boolean; const msg: string);
16746: procedure Assert2(expr : Boolean; const msg: string);
16747: Procedure Assign( AList : TCustomBucketList)
16748: Procedure Assign( Other : TObject)
16749: Procedure Assign( Source : TDragObject)
16750: Procedure Assign( Source : TPersistent)
16751: Procedure Assign(Source: TPersistent)
16752: procedure Assign2(mystring, mypath: string);
16753: Procedure AssignCurValues( Source : TDataSet);
16754: Procedure AssignCurValues1( const CurValues : Variant);
16755: Procedure ASSIGNFIELD( FIELD : TFIELD)
16756: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
16757: Procedure AssignFile(var F: Text; FileName: string)
16758: procedure AssignFile(var F: TextFile; FileName: string)
16759: procedure AssignFileRead(var mystring, myfilename: string);
16760: procedure AssignFileWrite(mystring, myfilename: string);
16761: Procedure AssignTo( Other : TObject)
16762: Procedure AssignValues( Value : TParameters)
16763: Procedure ASSIGNVALUES( VALUE : TPARAMS)
16764: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
16765: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
16766: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
16767: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
16768: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
16769: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
16770: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
16771: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
16772: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
16773: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);

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16774: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
16775: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
16776: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
16777: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
16778: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
16779: procedure Beep
16780: Procedure BeepOk
16781: Procedure BeepQuestion
16782: Procedure BeepHand
16783: Procedure BeepExclamation
16784: Procedure BeepAsterisk
16785: Procedure BeepInformation
16786: procedure BEGINDRAG( IMMEDIATE:BOOLEAN)
16787: Procedure BeginLayout
16788: Procedure BeginTimer( const Delay, Resolution : Cardinal)
16789: Procedure BeginUpdate
16790: procedure BeginUpdate;
16791: procedure BigScreen1Click(Sender: TObject);
16792: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
16793: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
16794: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
16795: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
16796: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
16797: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
16798: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
16799: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
16800: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
16801: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
16802: Procedure BreakPointMenuClick( Sender : TObject)
16803: procedure BRINGTOFRONT
16804: procedure BringToFront;
16805: Procedure btnBackClick( Sender : TObject)
16806: Procedure btnBrowseClick( Sender : TObject)
16807: Procedure BtnClick( Index : TNavigateBtn)
16808: Procedure btnLargeIconsClick( Sender : TObject)
16809: Procedure BuildAndSendRequest( AURI : TIdURI)
16810: Procedure BuildCache
16811: Procedure BurnMemory( var Buff, BuffLen : integer)
16812: Procedure BurnMemoryStream( Destrukt : TMemoryStream)
16813: Procedure CalculateFirstSet
16814: Procedure Cancel
16815: procedure CancelDrag;
16816: Procedure CancelEdit
16817: procedure CANCELHINT
16818: Procedure CancelRange
16819: Procedure CancelUpdates
16820: Procedure CancelWriteBuffer
16821: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
16822: Procedure Capture2(ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
16823: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
16824: procedure CaptureScreenFormat(vname: string; vextension: string);
16825: procedure CaptureScreenPNG(vname: string);
16826: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
16827: procedure CASCADE
16828: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
16829: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);
16830: Procedure cbPathClick( Sender : TObject)
16831: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
16832: Procedure cedbugAfterExecute( Sender : TPSScript)
16833: Procedure cedbugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
16834: Procedure cedbugCompile( Sender : TPSScript)
16835: Procedure cedbugExecute( Sender : TPSScript)
16836: Procedure cedbugIdle( Sender : TObject)
16837: Procedure cedbugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
16838: Procedure CenterHeight( const pc, pcParent : TControl)
16839: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
16840: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
16841: Procedure Change
16842: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
16843: Procedure Changed
16844: Procedure ChangeDir( const ADirName : string)
16845: Procedure ChangeDirUp
16846: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
16847: Procedure ChangeLevelBy( Value : TChangeRange)
16848: Procedure ChDir(const s: string)
16849: Procedure Check(Status: Integer)
16850: Procedure CheckCommonControl( CC : Integer)
16851: Procedure CHECKFIELDNAME( const FIELDNAME : String)
16852: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
16853: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
16854: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
16855: Procedure CheckToken( T : Char)
16856: procedure CheckToken(t:char)
16857: Procedure CheckTokenSymbol( const S : string)
16858: procedure CheckTokenSymbol(s:string)
16859: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
16860: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
16861: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
16862: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal);

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16863: procedure CipherFile1Click(Sender: TObject);
16864: Procedure Clear;
16865: Procedure Clear1Click( Sender : TObject)
16866: Procedure ClearColor( Color : TColor)
16867: Procedure CLEARITEM( AITEM : TMENUITEM)
16868: Procedure ClearMapping
16869: Procedure ClearSelection( KeepPrimary : Boolean)
16870: Procedure ClearWriteBuffer
16871: Procedure Click
16872: Procedure Close
16873: Procedure Close1Click( Sender : TObject)
16874: Procedure CloseDatabase( Database : TDatabase)
16875: Procedure CloseDataSets
16876: Procedure CloseDialog
16877: Procedure CloseFile(var F: Text);
16878: Procedure Closure
16879: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
16880: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
16881: Procedure CodeCompletionList1Click( Sender : TObject)
16882: Procedure ColEnter
16883: Procedure Collapse
16884: Procedure Collapse( Recurse : Boolean)
16885: Procedure ColorRGBtoHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word)
16886: Procedure CommaSeparatedToStringList( Alist : TStringList; const Value : string)
16887: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction)
16888: Procedure Compile1Click( Sender : TObject)
16889: procedure ComponentCount1Click(Sender: TObject);
16890: Procedure Compress(azipfolder, azipfile: string)
16891: Procedure DeCompress(azipfolder, azipfile: string)
16892: Procedure XZip(azipfolder, azipfile: string)
16893: Procedure XUnZip(azipfolder, azipfile: string)
16894: Procedure Connect( const ATimeout : Integer)
16895: Procedure Connect( Socket : TSocket)
16896: procedure Console1Click(Sender: TObject);
16897: Procedure Continue
16898: Procedure ContinueCount( var Counter : TJclCounter)
16899: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
16900: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer)
16901: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer)
16902: Procedure ConvertImage(vsource, vdestination: string);
16903: // Ex. ConvertImage(Exepath+'my233.bmp.bmp',Exepath+'mypng111.png')
16904: Procedure ConvertToGray(Cnv: TCanvas);
16905: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer)
16906: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer);
16907: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer);
16908: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
16909: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASourceIndex : Integer; var VDest : Word)
16910: Procedure CopyFrom( mbCopy : TMyBigInt)
16911: Procedure CopyMemoryStream( Source, Destination : TMemoryStream)
16912: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
16913: Procedure CopyTIdByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ADestLength : Integer)
16914: Procedure CopyTIdBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int)
16915: Procedure CopyTIdCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer)
16916: Procedure CopyTIdInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
16917: Procedure CopyTidIPv6Address(const ASource:TIdIPv6Address; var VDest: TIdBytes; const ADestIndex : Integer)
16918: Procedure CopyTidLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
16919: Procedure CopyTidNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
16920: Procedure CopyTidNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
16921: Procedure CopyTidString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
16922: Procedure CopyTidWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
16923: Procedure CopyToClipboard
16924: Procedure CountParts
16925: Procedure CreateDataSet
16926: Procedure CreateEmptyFile( const FileName : string)
16927: Procedure CreateFileFromString( const FileName, Data : string)
16928: Procedure CreateFromDelta( Source : TPacketDataSet)
16929: procedure CREATEHANDLE
16930: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
16931: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
16932: Procedure CreateTable
16933: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
16934: procedure CSyntax1Click(Sender: TObject);
16935: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
16936: Procedure CURSORPOSCHANGED
16937: procedure CutfirstDirectory(var S: String)
16938: Procedure DataBaseError(const Message: string)
16939: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
16940: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
16941: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
16942: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
16943: Procedure DBIError(errorCode: Integer)
16944: Procedure DebugOutput( const AText : string)
16945: Procedure DebugRun1Click( Sender : TObject)
16946: procedure Dec;
16947: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
16948: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
16949: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)

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16950: Procedure DecodeDateMonthWeek( const AValue:TDatetime; out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word)
16951: Procedure DecodeDateTime( const AValue:TDatetime; out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
16952: Procedure DecodeDateWeek( const AValue : TDatetime; out AYear, AWeekOfYear, ADayOfWeek : Word)
16953: Procedure DecodeDayOfWeekInMonth( const AValue:TDatetime; out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
16954: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
16955: procedure DecodeTime( const DateTime: TDatetime; var Hour, Min, Sec, MSec, MSec: Word);
16956: Procedure Decompile1Click( Sender : TObject)
16957: Procedure DefaultDrawColumnCell( const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
16958: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
16959: Procedure DeferLayout
16960: Procedure defFileread
16961: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL; REMOVING:BOOLEAN)
16962: Procedure DelayMicroseconds( const MicroSeconds : Integer)
16963: Procedure Delete
16964: Procedure Delete( const Afilename : string)
16965: Procedure Delete( const Index : Integer)
16966: Procedure DELETE( INDEX : INTEGER)
16967: Procedure Delete( Index : LongInt)
16968: Procedure Delete( Node : TTreeNode)
16969: procedure Delete( var s: AnyString; ifrom, icoount: Longint);
16970: Procedure DeleteAlias( const Name : string)
16971: Procedure DeleteDriver( const Name : string)
16972: Procedure DeleteIndex( const Name : string)
16973: Procedure DeleteKey( const Section, Ident : String)
16974: Procedure DeleteRecords
16975: Procedure DeleteRecords( AffectRecords : TAffectRecords)
16976: Procedure DeleteString( var pStr : String; const pDelStr : string)
16977: Procedure DeleteTable
16978: procedure DelphiSitelClick(Sender: TObject);
16979: Procedure Deselect
16980: Procedure Deselect( Node : TTreeNode)
16981: procedure DestroyComponents
16982: Procedure DestroyHandle
16983: Procedure Diff( var X : array of Double)
16984: procedure Diff(var X: array of Double);
16985: procedure DISABLEALIGN
16986: Procedure DisableConstraints
16987: Procedure Disconnect
16988: Procedure Disconnect( Socket : TSocket)
16989: Procedure Dispose
16990: procedure Dispose(P: PChar)
16991: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
16992: Procedure DoKey( Key : TDBCtrlGridKey)
16993: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
16994: Procedure DomToTree(janXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
16995: Procedure Dormant
16996: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
16997: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
16998: Procedure DoubleToComp( Value : Double; var Result : Comp)
16999: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
17000: procedure Draw(X, Y: Integer; Graphic: TGraphic);
17001: Procedure Draw(Canvas:TCanvas; X,Y,
Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
17002: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17003: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
17004: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17005: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
17006: procedure DrawFocusRect(const Rect: TRect);
17007: Procedure DrawHDIBToTBitmap( HDIB : HHandle; Bitmap : TBitmap)
17008: Procedure DRAWMENUTITEM( MENUTITEM : TMENUTITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17009: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Int;ImageIndex:Int;Overlay:TOverlay;Enabled:Boolean);
17010: Procedure DrawOverlayl(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
17011: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
17012: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
17013: Procedure DropConnections
17014: Procedure DropDown
17015: Procedure DumpDescription( oStrings : TStrings)
17016: Procedure DumpStateTable( oStrings : TStrings)
17017: Procedure EDIT
17018: Procedure EditButtonClick
17019: Procedure EditFont1Click( Sender : TObject)
17020: procedure Ellipse(X1, Y1, X2, Y2: Integer);
17021: Procedure Ellipse1( const Rect : TRect);
17022: Procedure EMMS
17023: Procedure Encode( ADest : TStream)
17024: procedure ENDDRAG(DROP:BOOLEAN)
17025: Procedure EndEdit( Cancel : Boolean)
17026: Procedure EndTimer
17027: Procedure EndUpdate
17028: Procedure EraseSection( const Section : string)
17029: Procedure Error( const Ident : string)
17030: procedure Error(Ident:Integer)
17031: Procedure ErrorFmt( const Ident : string; const Args : array of const)
17032: Procedure ErrorStr( const Message : string)
17033: procedure ErrorStr(Message:String)
17034: Procedure Exchange( Index1, Index2 : Integer)
17035: procedure Exchange(Index1, Index2: Integer);
17036: Procedure Exec( FileName, Parameters, Directory : string)

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17037: Procedure ExecProc
17038: Procedure ExecSQL( UpdateKind : TUpdateKind)
17039: Procedure Execute
17040: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
17041: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
17042: Procedure ExecuteCommand(executeFile, paramstring: string)
17043: Procedure ExecuteShell(executeFile, paramstring: string)
17044: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
17045: Procedure ExitThread(ExitCode: Integer); stdcall;
17046: Procedure ExitProcess(ExitCode: Integer); stdcall;
17047: Procedure Expand( AUserName : String; AResults : TStrings)
17048: Procedure Expand( Recurse : Boolean)
17049: Procedure ExportClipboardClick( Sender : TObject)
17050: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
17051: Procedure ExtractContentFields( Strings : TStrings)
17052: Procedure ExtractCookieFields( Strings : TStrings)
17053: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
17054: Procedure ExtractHeaderFields(Separ,
WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuotes:Bool)
17055: Procedure ExtractHTTPFields(Separators,WhiteSpace:
TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
17056: Procedure ExtractQueryFields( Strings : TStrings)
17057: Procedure FastDegToGrad
17058: Procedure FastDegToRad
17059: Procedure FastGradToDeg
17060: Procedure FastGradToRad
17061: Procedure FastRadToDeg
17062: Procedure FastRadToGrad
17063: Procedure FileClose( Handle : Integer)
17064: Procedure FileClose(handle: integer)
17065: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs>ShowDirs,Multitasking:Bool)
17066: Procedure FileStructure( AStructure : TIIdFTPDataStructure)
17067: Procedure FillByte2(var X: Byte; count: integer; value: byte)
17068: Procedure FillBytes( var VBytes : TIBytes; const ACount : Integer; const AValue : Byte)
17069: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
17070: Procedure FillChar2(var X: PChar ; count: integer; value: char)
17071: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
17072: Procedure FillIPList
17073: procedure FillRect(const Rect: TRect);
17074: Procedure FillTStrings( AStrings : TStrings)
17075: Procedure FilterOnBookmarks( Bookmarks : array of const)
17076: procedure FinalizePackage(Module: HMODULE)
17077: procedure FindClose;
17078: procedure FindClose2(var F: TSearchRec)
17079: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
17080: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
17081: Procedure FindNearest( const KeyValues : array of const)
17082: Procedure FinishContext
17083: Procedure FIRST
17084: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
17085: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
17086: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
17087: Procedure FlushSchemaCache( const TableName : string)
17088: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
17089: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
17090: Procedure Form1Close( Sender : TObject; var Action : TCloseAction)
17091: Procedure FormActivate( Sender : TObject)
17092: procedure FormatIn(const format: String; const args: array of const); //alias
17093: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17094: Procedure FormCreate( Sender : TObject)
17095: Procedure FormDestroy( Sender : TObject)
17096: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17097: procedure FormOutput1Click(Sender: TObject);
17098: Procedure FormToHTML( Form : TForm; Path : string)
17099: procedure FrameRect(const Rect: TRect);
17100: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
17101: Procedure NotebookHandlesNeeded( Notebook : TNNotebook)
17102: Procedure Free( Buffer : TRecordBuffer)
17103: Procedure Free( Buffer : TValueBuffer)
17104: Procedure Free;
17105: Procedure FreeAndNil(var Obj:TObject)
17106: Procedure FreeImage
17107: procedure FreeMem(P: PChar; Size: Integer)
17108: Procedure FreeTreeData( Tree : TUpdateTree)
17109: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
17110: Procedure FullCollapse
17111: Procedure FullExpand
17112: Procedure GenerateDBP(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
17113: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
17114: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
17115: Procedure Get1( AURL : string; const AResponseContent : TStream);
17116: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
17117: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
17118: Procedure GetAliasNames( List : TStrings)
17119: Procedure GetAliasParams( const AliasName : string; List : TStrings)
17120: Procedure GetApplicationsRunning( Strings : TStrings)
17121: Procedure GetCommandTypes( List : TWideStrings)
17122: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
17123: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)

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17124: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
17125: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
17126: Procedure GetDatabaseNames( List : TStrings)
17127: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
17128: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
17129: Procedure GetDir(d: byte; var s: string)
17130: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
17131: Procedure GetDriverNames( List : TStrings)
17132: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
17133: Procedure GetDriverParams( const DriverName : string; List : TStrings)
17134: Procedure GetEMails1Click( Sender : TObject)
17135: Procedure getEnvironmentInfo;
17136: Function getEnvironmentString: string;
17137: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
17138: Procedure GetFieldNames( const TableName : string; List : TStrings)
17139: Procedure GetFieldNames( const TableName : string; List : TStrings);
17140: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
17141: Procedure GETFIELDNAMES( LIST : TSTRINGS)
17142: Procedure GetFieldNames1( const TableName : string; List : TStrings);
17143: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
17144: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
17145: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
17146: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
17147: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
17148: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
17149: Procedure GetFormatSettings
17150: Procedure GetFromDIB( var DIB : TBitmapInfo)
17151: Procedure GetFromHDI(B : HDIB : HBitmap)
17152: Procedure GetIcon( Index : Integer; Image : TIcon);
17153: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
17154: Procedure GetIndexInfo( IndexName : string)
17155: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
17156: Procedure GetIndexNames( List : TStrings)
17157: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
17158: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
17159: Procedure GetIndexNames4( const TableName : string; List : TStrings);
17160: Procedure GetInternalResponse
17161: Procedure GETITEMNAMES( LIST : TSTRINGS)
17162: procedure GetMem(P: PChar; Size: Integer)
17163: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
17164: procedure GetPackageDescription(ModuleName: PChar): string
17165: Procedure GetPackageNames( List : TStrings);
17166: Procedure GetPackageNames1( List : TWideStrings);
17167: Procedure GetParamList( List : TList; const ParamNames : WideString)
17168: Procedure GetProcedureNames( List : TStrings);
17169: Procedure GetProcedureNames( List : TWideStrings);
17170: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
17171: Procedure GetProcedureNames1( List : TStrings);
17172: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
17173: Procedure GetProcedureNames3( List : TWideStrings);
17174: Procedure GetProcedureNames4( const PackageName : Widestring; List : TWideStrings);
17175: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
17176: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
17177: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
17178: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : Widestring; List : TList);
17179: Procedure GetProviderNames( Names : TWideStrings);
17180: Procedure GetProviderNames( Proc : TGetStrProc)
17181: Procedure GetProviderNames1( Names : TStrings);
17182: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
17183: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string); //no autoopen image
17184: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string;aformat:string):TLinearBitmap;
17185: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
17186: Procedure GetSchemaNames( List : TStrings);
17187: Procedure GetSchemaNames1( List : TWideStrings);
17188: Procedure GetSessionNames( List : TStrings)
17189: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
17190: Procedure GetStrings( List : TStrings)
17191: Procedure GetSystemTime; stdcall;
17192: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)
17193: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
17194: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17195: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
17196: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
17197: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
17198: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
17199: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
17200: Procedure GetVisibleWindows( List : Tstrings)
17201: Procedure GoBegin
17202: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
17203: Procedure GotoCurrent( Table : TTable)
17204: procedure GotoEnd1Click(Sender : TObject);
17205: Procedure GotoNearest
17206: Procedure GradientfillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const Direction: TGradientDirection)
17207: Procedure HandleException( E : Exception; var Handled : Boolean)
17208: procedure HANDLEMESSAGE
17209: procedure HandleNeeded;

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17210: Procedure Head( AURL : string)
17211: Procedure Help( var AHelpContents : TStringList; ACommand : String)
17212: Procedure HexToBinary( Stream : TStream)
17213: procedure HexToBinary(Stream:TStream)
17214: Procedure HideDragImage
17215: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
17216: Procedure HideTraybar
17217: Procedure HideWindowForSeconds(secs: integer); //3 seconds
17218: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
17219: Procedure HookOSExceptions
17220: Procedure HookSignal( RtlSigNum : Integer)
17221: Procedure HSLTtoRGB( const H, S, L : Single; out R, G, B : Single);
17222: Procedure HTMLOntax1Click( Sender : TObject)
17223: Procedure IFPS3ClassesPluginImport( Sender : TObject; x : TPSPascalCompiler)
17224: Procedure IFPS3ClassesPluginExecImport( Sender : TObject; Exec : TPSEexec; x : TPSRuntimeClassImporter)
17225: Procedure ImportFromClipboard1Click( Sender : TObject)
17226: Procedure ImportFromClipboard2Click( Sender : TObject)
17227: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
17228: procedure Incb(var x: byte);
17229: Procedure IncludeClick( Sender : TObject)
17230: Procedure IncludeOFF; //preprocessing
17231: Procedure IncludeON;
17232: procedure Info1Click(Sender: TObject);
17233: Procedure InitAltRecBuffers( CheckModified : Boolean)
17234: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
17235: Procedure InitContext( WebModuleList:TAbsractWebModuleList;Request:TWebRequest;Response:TWebResponse )
17236: Procedure InitData( ASource : TDataSet)
17237: Procedure InitDelta( ADelta : TPacketDataSet);
17238: Procedure InitDelta1( const ADelta : OleVariant);
17239: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
17240: Procedure Initialize
17241: procedure InitializePackage(Module: HMODULE)
17242: Procedure INITIACTION
17243: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
17244: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
17245: Procedure InitModule( AModule : TComponent)
17246: Procedure InitStdConvs
17247: Procedure InitTreeData( Tree : TUpdateTree)
17248: Procedure INSERT
17249: Procedure Insert( Index : Integer; AClass : TClass)
17250: Procedure Insert( Index : Integer; AComponent : TComponent)
17251: Procedure Insert( Index : Integer; AObject : TObject)
17252: Procedure Insert( Index : Integer; const S : WideString)
17253: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
17254: Procedure Insert(Index: Integer; const S: string);
17255: procedure Insert(Index: Integer; S: string);
17256: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
17257: procedure InsertComponent(AComponent:TComponent)
17258: procedure InsertControl(AControl: TControl);
17259: Procedure InsertIcon( Index : Integer; Image : TIcon)
17260: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
17261: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
17262: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
17263: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
17264: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
17265: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
17266: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
17267: Procedure InternalBeforeResolve( Tree : TUpdateTree)
17268: Procedure InvalidateModuleCache
17269: Procedure InvalidateTitles
17270: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
17271: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
17272: Procedure InvalidDateTimeError(const AYear,AMth,Aday,AHour,AMin,ASec,AMilSec:Word;const
ABaseDate:TDateTime)
17273: Procedure InvalidDateWeekError( const AYear, AWeekOfYear, ADayOfWeek : Word)
17274: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
17275: procedure JavaSyntax1Click(Sender: TObject);
17276: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
17277: Procedure KillDataChannel
17278: Procedure Largefont1Click( Sender : TObject)
17279: Procedure LAST
17280: Procedure LaunchCpl( FileName : string)
17281: Procedure Launch( const Afile : string)
17282: Procedure LaunchFile( const Afile : string)
17283: Procedure LetfileList(FileList: TStringlist; apath: string);
17284: Procedure lineToNumber( xmemo : String; met : boolean)
17285: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
DefaultDraw:Bool)
17286: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
: TCustomDrawState; var DefaultDraw : Boolean)
17287: Procedure ListViewData( Sender : TObject; Item : TListItem)
17288: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
: TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
17289: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
17290: Procedure ListViewDblClick( Sender : TObject)
17291: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
17292: Procedure ListDLEExports(const FileName: string; List: TStrings);
17293: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream)
17294: procedure LoadBytecode1Click(Sender: TObject);

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17295: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
17296: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
17297: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
17298: Procedure LoadFromFile( AFileName : string)
17299: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
17300: Procedure LoadFromFile( const FileName : string)
17301: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
17302: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
17303: Procedure LoadFromFile( const FileName : WideString)
17304: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17305: Procedure LoadFromFile( const AFileName: string)
17306: procedure LoadFromFile(FileName: string);
17307: procedure LoadFromFile(FileName:String)
17308: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
17309: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
17310: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
17311: Procedure LoadFromStream( const Stream : TStream)
17312: Procedure LoadFromStream( S : TStream)
17313: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinarBitmap)
17314: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17315: Procedure LoadFromStream( Stream : TStream)
17316: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
17317: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
17318: procedure LoadFromStream(Stream: TStream);
17319: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
17320: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
17321: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
17322: Procedure LoadLastFileClick( Sender : TObject)
17323: { LoadIconToImage loads two icons from resource named NameRes,
17324:   into two image lists ALarge and ASmall}
17325: Procedure LoadIconToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
17326: Procedure LoadMemo
17327: Procedure LoadParamsFromIniFile( FFileName : WideString)
17328: Procedure Lock
17329: Procedure Login
17330: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
17331: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
17332: Procedure MakeCaseInsensitive
17333: Procedure MakeDeterministic( var bChanged : boolean)
17334: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
17335: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
17336: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
17337: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
17338: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
17339: Procedure SetRectComplexFormatStr( const S : string)
17340: Procedure SetPolarComplexFormatStr( const S : string)
17341: Procedure AddComplexSoundObjectToList(newf,newp,newa,newn:integer; freqlist: TStrings);
17342: Procedure MakeVisible
17343: Procedure MakeVisible( PartialOK : Boolean)
17344: Procedure Manual1Click( Sender : TObject)
17345: Procedure MarkReachable
17346: Procedure maxBox; //shows the exe version data in a win box
17347: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
17348: Procedure Memo1Change( Sender : TObject)
17349: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var Action:TSynReplaceAction)
17350: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
17351: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
17352: procedure Memory1Click(Sender: TObject);
17353: Procedure MERGE( MENU : TMAINMENU)
17354: Procedure MergeChangeLog
17355: procedure MINIMIZE
17356: Procedure MinimizeMaxbox;
17357: Procedure MkDir(const s: string)
17358: Procedure mnuPrintFont1Click( Sender : TObject)
17359: procedure ModalStarted
17360: Procedure Modified
17361: Procedure ModifyAlias( Name : string; List : TStrings)
17362: Procedure ModifyDriver( Name : string; List : TStrings)
17363: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
17364: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
17365: Procedure Move( CurIndex, NewIndex : Integer)
17366: procedure Move(CurIndex, NewIndex: Integer);
17367: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
17368: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
17369: Procedure moveCube( o : TMyLabel)
17370: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
17371: procedure MoveTo(X, Y: Integer);
17372: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
17373: Procedure MovePoint(var x,y:Extended; const angle:Extended);
17374: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
17375: Procedure Multiply1( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
17376: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK);
17377: Procedure mxButton(x,y,width,height,top,left,aHandle: integer);
17378: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
17379: procedure New(P: PChar)
17380: procedure New1Click(Sender: TObject);
17381: procedure NewInstanceClick(Sender: TObject);
17382: Procedure NEXT

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17383: Procedure NextMonth
17384: Procedure Noop
17385: Procedure NormalizePath( var APath : string)
17386: procedure ObjectBinaryToText( Input, Output: TStream)
17387: procedure ObjectBinaryToText1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat)
17388: procedure ObjectResourceToText( Input, Output: TStream)
17389: procedure ObjectResourceToText1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat)
17390: procedure ObjectTextToBinary( Input, Output: TStream)
17391: procedure ObjectTextToBinary1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat)
17392: procedure ObjectTextToResource( Input, Output: TStream)
17393: procedure ObjectTextToResource1( Input, Output: TStream; var OriginalFormat: TStreamOriginalFormat)
17394: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
17395: Procedure Open( const UserID : WideString; const Password : WideString);
17396: Procedure Open;
17397: Procedure open1Click( Sender : TObject)
17398: Procedure OpenCdDrive
17399: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
17400: Procedure OpenCurrent
17401: Procedure OpenFile(vfilenamepath: string)
17402: Procedure OpenDirectory1Click( Sender : TObject)
17403: Procedure OpenIndexFile( const IndexName : string)
17404: Procedure OpenSchema(const Schema: TSchemaInf; const Restricts: OleVar; const SchemaID: OleVariant; DataSet: TADODataSet)
17405: Procedure OpenWriteBuffer( const ATreshold : Integer)
17406: Procedure OptimizeMem
17407: Procedure Options1( AURL : string);
17408: Procedure OutputDebugString(lpOutputString : PChar)
17409: Procedure PackBuffer
17410: Procedure Paint
17411: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)
17412: Procedure PaintToTBitmap( Target : TBitmap)
17413: Procedure PaletteChanged
17414: Procedure ParentBidiModeChanged
17415: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT)
17416: Procedure PasteFromClipboard;
17417: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer)
17418: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
17419: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
17420: Procedure PError( Text : string)
17421: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17422: procedure Pie(X1: Integer; Y1: Integer; X2: Integer; Y2: Integer; X3: Int; Y3: Integer; X4: Integer; Y4: Integer);
17423: Procedure Play( FromFrame, ToFrame : Word; Count : Integer)
17424: procedure playmp3(mpPath: string);
17425: Procedure PlayMP31Click( Sender : TObject)
17426: Procedure PointCopy( var Dest : TPoint; const Source : TPoint)
17427: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer)
17428: procedure PolyBezier(const Points: array of TPoint);
17429: procedure PolyBezierTo(const Points: array of TPoint);
17430: procedure Polygon(const Points: array of TPoint);
17431: procedure Polyline(const Points: array of TPoint);
17432: Procedure Pop
17433: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT)
17434: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float)
17435: Procedure POPUP( X, Y : INTEGER)
17436: Procedure PopupURL(URL : WideString);
17437: Procedure POST
17438: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
17439: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
17440: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream);
17441: Procedure PostUser( const Email, FirstName, LastName : WideString)
17442: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
17443: procedure Pred(X: int64);
17444: Procedure Prepare
17445: Procedure PrepareStatement
17446: Procedure PreProcessXML( AList : TStrings)
17447: Procedure PreventDestruction
17448: Procedure Print( const Caption : string)
17449: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
17450: procedure printf(const format: String; const args: array of const);
17451: Procedure PrintList(Value: TStringList);
17452: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
17453: Procedure Printout1Click( Sender : TObject)
17454: Procedure ProcessHeaders
17455: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR)
17456: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean);
17457: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean);
17458: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean);
17459: Procedure ProcessMessagesOFF; //application.processmessages
17460: Procedure ProcessMessagesON;
17461: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
17462: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
17463: Procedure Proclist Size is: 3797 /1415
17464: Procedure procMessClick( Sender : TObject)
17465: Procedure PSScriptCompile( Sender : TPSScript)
17466: Procedure PSScriptExecute( Sender : TPSScript)
17467: Procedure PSScriptLine( Sender : TObject)
17468: Procedure Push( ABoundary : string)
17469: procedure PushItem(AItem: Pointer)
17470: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream);

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17471: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean);
17472: procedure PutLinuxLines(const Value: string)
17473: Procedure Quit
17474: Procedure RaiseConversionError( const AText : string);
17475: Procedure RaiseConversionError( const AText : string; const AArgs : array of const);
17476: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string);
17477: procedure RaiseException(Ex: TIFEException; Param: String);
17478: Procedure RaiseExceptionForLastCmdResult;
17479: procedure RaiseLastException;
17480: procedure RaiseException2;
17481: Procedure RaiseLastOSError
17482: Procedure RaiseLastWin32;
17483: procedure RaiseLastWin32Error)
17484: Procedure RaiseListError( const ATemplate : string; const AData : array of const)
17485: Procedure RandomFillStream( Stream : TMemoryStream)
17486: procedure randomize;
17487: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect)
17488: Procedure RCS
17489: Procedure Read( Socket : TSocket)
17490: Procedure ReadBlobData
17491: procedure ReadBuffer(Buffer:String;Count:LongInt)
17492: procedure ReadOnly1Click(Sender: TObject);
17493: Procedure ReadSection( const Section : string; Strings : TStrings)
17494: Procedure ReadSections( Strings : TStringList);
17495: Procedure ReadSections( Strings : TStringList);
17496: Procedure ReadSections1( const Section : string; Strings : TStringList);
17497: Procedure ReadSectionValues( const Section : string; Strings : TStringList)
17498: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean)
17499: Procedure ReadStrings( ADest : TStringList; AReadLinesCount : Integer)
17500: Procedure ReadVersion2(aFileName: STRING; aVersion : TStringList);
17501: Function ReadVersion(aFileName: STRING; aVersion : TStringList): boolean;
17502: Procedure Realign;
17503: procedure Rectangle(X1, Y1, X2, Y2: Integer);
17504: Procedure Rectangle1( const Rect : TRect);
17505: Procedure RectCopy( var Dest : TRect; const Source : TRect)
17506: Procedure RectFitToScreen( var R : TRect)
17507: Procedure RectGrow( var R : TRect; const Delta : Integer)
17508: Procedure RectGrowX( var R : TRect; const Delta : Integer)
17509: Procedure RectGrowY( var R : TRect; const Delta : Integer)
17510: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer)
17511: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
17512: Procedure RectNormalize( var R : TRect)
17513: // TFileCallbackProcedure = procedure(filename:string);
17514: Procedure RecurseDirectory( Dir: String; IncludeSubs: boolean; callback: TFileCallbackProcedure );
17515: Procedure RecurseDirectory2( Dir: String; IncludeSubs: boolean );
17516: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
17517: Procedure Refresh;
17518: Procedure RefreshData( Options : TFetchOptions )
17519: Procedure REFRESHLOOKUPLIST
17520: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass )
17521: Procedure RegisterChanges( Value : TChangeLink )
17522: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass )
17523: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass )
17524: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int )
17525: Procedure ReInitialize( ADelay : Cardinal )
17526: procedure RELEASE
17527: Procedure Remove( const AByteCount : integer )
17528: Procedure REMOVE( FIELD : TFIELD )
17529: Procedure REMOVE( ITEM : TMENUITEM )
17530: Procedure REMOVE( POPUP : TPOPUPMENU )
17531: Procedure RemoveAllPasswords
17532: procedure RemoveComponent(AComponent:TComponent)
17533: Procedure RemoveDir( const ADirName : string )
17534: Procedure RemoveLambdaTransitions( var bChanged : boolean )
17535: Procedure REMOVEPARAM( VALUE : TPARAM )
17536: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset );
17537: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState );
17538: Procedure Rename( const ASourceFile, ADestFile : string )
17539: Procedure Rename( const FileName : string; Reload : Boolean )
17540: Procedure RenameTable( const NewTableName : string )
17541: Procedure Replace( Index : Integer; Image, Mask : TBitmap )
17542: Procedure Replace1Click( Sender : TObject )
17543: Procedure ReplaceDate( var Date : TDateTime; NewDate : TDateTime )
17544: procedure ReplaceDate(var Date: TDateTime; const NewDate: TDateTime))
17545: Procedure ReplaceIcon( Index : Integer; Image : TIcon )
17546: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor )
17547: Procedure ReplaceTime( var Date : TDateTime; NewTime : TDateTime )
17548: procedure ReplaceTime(var Date: TDateTime; const NewTime: TDateTime);
17549: Procedure Requery( Options : TExecuteOptions )
17550: Procedure Reset
17551: Procedure Reset1Click( Sender : TObject )
17552: Procedure ResizeCanvas( XSiz,YSiz,XPos,YPos : Integer; Color : TColor )
17553: procedure ResourceExplore1Click(Sender: TObject);
17554: Procedure RestoreContents
17555: Procedure RestoreDefaults
17556: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string )
17557: Procedure RetrieveHeaders
17558: Procedure RevertRecord
17559: Procedure RGBAToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal )

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17560: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17561: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17562: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
17563: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
17564: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
17565: Procedure RleCompress2( Stream : TStream)
17566: Procedure RleDecompress2( Stream : TStream)
17567: Procedure RmDir(const S: string)
17568: Procedure Rollback
17569: Procedure Rollback( TransDesc : TTransactionDesc)
17570: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
17571: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
17572: Procedure RollbackTrans
17573: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
17574: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
17575: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
17576: Procedure RunBl132Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
17577: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
17578: Procedure S_EBox( const AText : string)
17579: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int)
17580: Procedure S_IBox( const AText : string)
17581: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
17582: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
17583: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
17584: Procedure SampleVarianceAndMean
17585: ( const X : TDynFloatArray; var Variance, Mean : Float)
17586: Procedure Save2Click( Sender : TObject)
17587: Procedure Saveas3Click( Sender : TObject)
17588: Procedure Savebefore1Click( Sender : TObject)
17589: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
17590: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
17591: Procedure SaveConfigFile
17592: Procedure SaveOutput1Click( Sender : TObject)
17593: procedure SaveScreenshotClick(Sender: TObject);
17594: Procedure SaveLn(pathname, content: string); //Saveln(exepath+'mysavelntest.txt', memo2.text);
17595: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
17596: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
17597: Procedure SaveToFile( AfileName : string)
17598: Procedure SAVETOFILE( const FILENAME : String)
17599: Procedure SaveToFile( const FileName : WideString)
17600: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
17601: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17602: procedure SaveToFile(FileName:string);
17603: procedure SaveToFile(FileName:String)
17604: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
17605: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17606: Procedure SaveToStream( S : TStream)
17607: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17608: Procedure SaveToStream( Stream : TStream)
17609: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
17610: procedure SaveToStream(Stream:TStream)
17611: procedure SaveToStream(Stream:TStream)
17612: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
17613: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
17614: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
17615: procedure Say(const sText: string)
17616: Procedure SBytecode1Click( Sender : TObject)
17617: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
17618: procedure ScriptExplorer1Click(Sender: TObject);
17619: Procedure Scroll( Distance : Integer)
17620: Procedure Scroll( DX, DY : Integer)
17621: procedure ScrollBy(DeltaX, DeltaY: Integer);
17622: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
17623: Procedure ScrollTabs( Delta : Integer)
17624: Procedure Search1Click( Sender : TObject)
17625: procedure SearchAndOpenDoc(vfilenamepath: string)
17626: procedure SearchAndOpenfile(vfilenamepath: string)
17627: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
17628: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
17629: Procedure SearchNext1Click( Sender : TObject)
17630: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
17631: Procedure Select1( const Nodes : array of TTreeNode);
17632: Procedure Select2( Nodes : TList);
17633: Procedure SelectNext( Direction : Boolean)
17634: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
17635: Procedure SelfTestPEM //unit uPSI_CPEM
17636: Procedure Send( AMsg : TIdMessage)
17637: //config forst in const MAILINIFILE = 'maildef.ini';
17638: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
17639: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17640: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17641: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
17642: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
17643: Procedure SendResponse
17644: Procedure SendStream( AStream : TStream)
17645: Procedure Set8087CW( NewCW : Word)
17646: Procedure SetAll( One, Two, Three, Four : Byte)
17647: Procedure SetAltRecBuffers( Old, New, Cur : PChar)

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17648: Procedure SetAppDispatcher( const ADispatcher : TComponent )
17649: procedure SetArrayLength;
17650: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
17651: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
17652: Procedure SetAsHandle( Format : Word; Value : THandle)
17653: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
17654: procedure SetCaptureControl(Control: TControl);
17655: Procedure SetColumnAttributes
17656: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
17657: Procedure SetCustomHeader( const Name, Value : string)
17658: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
17659: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd)
17660: Procedure SetFocus
17661: procedure SetFocus; virtual;
17662: Procedure SetInitialState
17663: Procedure SetKey
17664: procedure SetLastError(ErrorCode: Integer)
17665: procedure SetLength;
17666: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
17667: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
17668: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind);
17669: procedure SETPARAMS(APosition,AMIN,AMAX:INTEGER)
17670: Procedure SetParams1( UpdateKind : TUpdateKind);
17671: Procedure SetPassword( const Password : string)
17672: Procedure SetPointer( Ptr : Pointer; Size : Longint)
17673: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
17674: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
17675: Procedure SetProvider( Provider : TComponent)
17676: Procedure SetProxy( const Proxy : string)
17677: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
17678: Procedure SetRange( const StartValues, EndValues : array of const)
17679: Procedure SetRangeEnd
17680: Procedure SetRate( const aPercent, aYear : integer)
17681: procedure SetRate(const aPercent, aYear: integer)
17682: Procedure SetReportMemoryLeaksOnShutdown(abo: boolean)
17683: Procedure SetsafeCallExceptionMsg( Msg : String)
17684: procedure SETSELTEXTBUF(BUFFER:PCHAR)
17685: Procedure SetSize( AWidth, AHeight : Integer)
17686: procedure SetSize(NewSize:LongInt)
17687: procedure SetString(var s: string; buffer: PChar; len: Integer)
17688: Procedure SetStrings( List : TStrings)
17689: Procedure SetText( Text : PwideChar)
17690: procedure SetText(Text: PChar);
17691: Procedure SetTextBuf( Buffer : PChar)
17692: procedure SETTEXTBUF(BUFFER:PCHAR)
17693: Procedure SetTick( Value : Integer)
17694: Procedure SetTimeout( ATimeOut : Integer)
17695: Procedure SetTraceEvent( Event : TDBXTraceEvent)
17696: Procedure SetUserName( const UserName : string)
17697: Procedure SetWallpaper( Path : string);
17698: procedure ShellStyle1Click(Sender : TObject);
17699: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
17700: Procedure ShowFileProperties( const FileName : string)
17701: Procedure ShowInclude1Click( Sender : TObject)
17702: Procedure ShowInterfaces1Click( Sender : TObject)
17703: Procedure ShowLastException1Click( Sender : TObject)
17704: Procedure ShowMessage( const Msg : string)
17705: Procedure ShowMessageBig(const aText : string);
17706: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
17707: Procedure ShowMessageBig3(const aText : string; fsize: byte; aaautosize: boolean);
17708: Procedure MsgBig(const aText : string); //alias
17709: procedure showmessage(mytext: string);
17710: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
17711: procedure ShowMessageFmt(const Msg: string; Params: array of const))
17712: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
17713: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
17714: Procedure ShowSearchDialog( const Directory : string)
17715: Procedure ShowSpecChars1Click( Sender : TObject)
17716: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
17717: Procedure ShredFile( const FileName : string; Times : Integer)
17718: procedure Shuffle(vQ: TStringList);
17719: Procedure ShuffleList( var List : array of Integer; Count : Integer)
17720: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
17721: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
17722: Procedure SinCose( X : Extended; out Sin, Cos : Extended)
17723: Procedure Site( const ACommand : string)
17724: Procedure SkipEOL
17725: Procedure Sleep( ATime : cardinal)
17726: Procedure Sleep( milliseconds : Cardinal)
17727: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
17728: Procedure Slinenumbers1Click( Sender : TObject)
17729: Procedure Sort
17730: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
17731: procedure Speak(const sText: string) //async like voice
17732: procedure Speak2(const sText: string) //sync
17733: procedure Split(Str: string; SubStr: string; List: TStrings);
17734: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
17735: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)

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17736: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
17737: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings)
17738: Procedure SplitString( const AStr, ATokn : String; var VLeft, VRight : String)
17739: procedure SQLSyntaxClick(Sender: TObject);
17740: Procedure SRand( Seed : RNG_IntType)
17741: Procedure Start
17742: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
17743: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
17744: Procedure StartTransaction( TransDesc : TTransactionDesc)
17745: Procedure Status( var AStatusList : TStringList)
17746: Procedure StatusBarDblClick( Sender : TObject)
17747: Procedure StepIntoClick( Sender : TObject)
17748: Procedure StepIt
17749: Procedure StepOut1Click( Sender : TObject)
17750: Procedure Stop
17751: procedure stopmp3;
17752: procedure StartWeb(aurl: string);
17753: Procedure Str(int: integer; astr: string); //of system
17754: Procedure StrDispose( Str : PChar)
17755: procedure StrDispose(Str: PChar)
17756: Procedure StrReplace(var Str: String; Old, New: String);
17757: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
17758: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
17759: Procedure StringToBytes( Value : String; Bytes : array of byte)
17760: procedure StrSet(c : Char; I : Integer; var s : String);
17761: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
17762: Procedure StructureMount( APath : String)
17763: procedure STYLECHANGED(SENDER:TOBJECT)
17764: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
17765: procedure Succ(X: int64);
17766: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
17767: procedure SwapChar(var X,Y: char); //swapX follows
17768: Procedure SwapFloats( var X, Y : Float)
17769: procedure SwapGrid(grd: TStringGrid);
17770: Procedure SwapOrd( var I, J : Byte);
17771: Procedure SwapOrd( var X, Y : Integer)
17772: Procedure SwapOrd1( var I, J : Shortint);
17773: Procedure SwapOrd2( var I, J : Smallint);
17774: Procedure SwapOrd3( var I, J : Word);
17775: Procedure SwapOrd4( var I, J : Integer);
17776: Procedure SwapOrd5( var I, J : Cardinal);
17777: Procedure SwapOrd6( var I, J : Int64);
17778: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
17779: Procedure Synchronize1( Method : TMethod);
17780: procedure SyntaxCheck1Click(Sender: TObject);
17781: Procedure SysFreeString(const S: WideString); stdcall;
17782: Procedure TakeOver( Other : TLinearBitmap)
17783: Procedure TalkIn(const sText: string) //async voice
17784: procedure tbtn6resClick(Sender: TObject);
17785: Procedure tbtnUseCaseClick( Sender : TObject);
17786: procedure TerminalStyle1Click(Sender: TObject);
17787: Procedure Terminate
17788: Procedure texSyntax1Click( Sender : TObject)
17789: procedure TextOut(X, Y: Integer; Text: string);
17790: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
17791: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
17792: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
17793: Procedure TextStart
17794: procedure TILE
17795: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
17796: Procedure TitleClick( Column : TColumn)
17797: Procedure ToDo
17798: procedure toolbtnTutorialClick(Sender: TObject);
17799: Procedure Tracel( AURL : string; const AResponseContent : TStream);
17800: Procedure TransferMode( ATransferMode : TIidFTPTTransferMode)
17801: Procedure Truncate
17802: procedure Tutorial101Click(Sender: TObject);
17803: procedure Tutorial10Statistics1Click(Sender: TObject);
17804: procedure Tutorial11Forms1Click(Sender: TObject);
17805: procedure Tutorial12SQL1Click(Sender: TObject);
17806: Procedure tutorial1Click( Sender : TObject)
17807: Procedure tutorial21Click( Sender : TObject)
17808: Procedure tutorial31Click( Sender : TObject)
17809: Procedure tutorial4Click( Sender : TObject)
17810: Procedure Tutorial5Click( Sender : TObject)
17811: procedure Tutorial6Click(Sender: TObject);
17812: procedure Tutorial91Click(Sender: TObject);
17813: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
17814: procedure UniqueString(var str: AnsiString)
17815: procedure UnloadLoadPackage(Module: HMODULE)
17816: Procedure Unlock
17817: Procedure UNMERGE( MENU : TMAINMENU)
17818: Procedure UnRegisterChanges( Value : TChangeLink)
17819: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
17820: Procedure UnregisterConversionType( const AType : TConvType)
17821: Procedure UnRegisterProvider( Prov : TCustomProvider)
17822: Procedure UPDATE
17823: Procedure UpdateBatch( AffectRecords : TAffectRecords)
17824: Procedure UPDATECURSORPOS

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17825: Procedure UpdateFile
17826: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
17827: Procedure UpdateResponse( AResponse : TWebResponse)
17828: Procedure UpdateScrollBar
17829: Procedure UpdateView1Click( Sender : TObject)
17830: procedure Val(const s: string; var n, z: Integer)
17831: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
17832: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
17833: Procedure VariantAdd( const src : Variant; var dst : Variant)
17834: Procedure VariantAnd( const src : Variant; var dst : Variant)
17835: Procedure VariantArrayRedim( var V : Variant; High : Integer)
17836: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
17837: Procedure VariantClear( var V : Variant)
17838: Procedure VariantCpy( const src : Variant; var dst : Variant)
17839: Procedure VariantDiv( const src : Variant; var dst : Variant)
17840: Procedure VariantMod( const src : Variant; var dst : Variant)
17841: Procedure VariantMul( const src : Variant; var dst : Variant)
17842: Procedure VariantOr( const src : Variant; var dst : Variant)
17843: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
17844: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
17845: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
17846: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
17847: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
17848: Procedure VariantShl( const src : Variant; var dst : Variant)
17849: Procedure VariantShr( const src : Variant; var dst : Variant)
17850: Procedure VariantSub( const src : Variant; var dst : Variant)
17851: Procedure VariantXor( const src : Variant; var dst : Variant)
17852: Procedure VarCastError;
17853: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
17854: Procedure VarInvalidOp
17855: Procedure VarInvalidNullOp
17856: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
17857: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
17858: Procedure VarArrayCreateError
17859: Procedure VarResultCheck( AResult : HRESULT);
17860: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
17861: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
17862: Function VarTypeAsText( const AType : TVarType) : string
17863: procedure Voice2(const sText: string) //async
17864: procedure Voice2(const sText: string) //sync
17865: Procedure WaitMiliSeconds( AMSec : word)
17866: Procedure WideAppend( var dst : WideString; const src : WideString)
17867: Procedure WideAssign( var dst : WideString; var src : WideString)
17868: Procedure WideDelete( var dst : WideString; index, count : Integer)
17869: Procedure WideFree( var s : WideString)
17870: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
17871: Procedure WideFromPChar( var dst : WideString; src : PChar)
17872: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
17873: Procedure WideSetLength( var dst : WideString; len : Integer)
17874: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
17875: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
17876: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
17877: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
17878: Procedure HttpGet(const Url: string; Stream:TStream);
17879: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIddBytes; Index : integer)
17880: Procedure WordWrap1Click( Sender : TObject)
17881: Procedure Write( const AOut : string)
17882: Procedure Write( Socket : TSocket)
17883: procedure Write(S: string);
17884: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
17885: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
17886: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
17887: procedure WriteBuffer(Buffer:String;Count:LongInt)
17888: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
17889: Procedure WriteChar( AValue : Char)
17890: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
17891: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
17892: Procedure WriteFloat( const Section, Name : string; Value : Double)
17893: Procedure WriteHeader( AHeader : TStrings)
17894: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
17895: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
17896: Procedure WriteIn( const AOut : string)
17897: procedure Writeln(s: string);
17898: Procedure WriteLog( const FileName, LogLine : string)
17899: Procedure WriteRFCReply( AReply : TIidRFCReply)
17900: Procedure WriteRFCStrings( AStrings : TStrings)
17901: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
17902: Procedure WriteStream(ASstream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASIZE:Int)
17903: Procedure WriteString( const Section, Ident, Value : String)
17904: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
17905: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
17906: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
17907: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
17908: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
17909: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
17910: procedure XMLSyntax1Click(Sender: TObject);
17911: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
17912: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
17913: Procedure ZeroFillStream( Stream : TMemoryStream)

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17914: procedure XMLSyntax1Click(Sender: TObject);
17915: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
17916: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
17917: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
17918: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
17919: procedure(Sender, Source: TObject; X, Y: Integer)
17920: procedure(Sender, Target: TObject; X, Y: Integer)
17921: procedure(Sender: TObject; ASection, AWidth: Integer)
17922: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
17923: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
17924: procedure(Sender: TObject; var Action: TCloseAction)
17925: procedure(Sender: TObject; var CanClose: Boolean)
17926: procedure(Sender: TObject; var Key: Char);
17927: ProcedureName ProcedureNames ProcedureParametersCursor @
17928:
17929: *****Now Constructors constructor *****
17930: Size is: 1248 1115 996 628 550 544 501 459 (381)
17931: Attach( VersionInfoData : Pointer; Size : Integer)
17932: constructor Create( ABuckets : TBucketListSizes)
17933: Create( ACallBackWnd : HWND)
17934: Create( AClient : TCustomTaskDialog)
17935: Create( AClient : TIdTelnet)
17936: Create( ACollection : TCollection)
17937: Create( ACollection : TFavoriteLinkItems)
17938: Create( ACollection : TTaskDialogButtons)
17939: Create( AConnection : TIdCustomHTTP)
17940: Create( ACreateSuspended : Boolean)
17941: Create( ADataSet : TCustomSQLDataSet)
17942: CREATE( ADATASET : TDATASET)
17943: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
17944: Create( AGrid : TCustomDBGrid)
17945: Create( AGrid : TStringGrid; AIndex : Longint)
17946: Create( AHTTP : TIdCustomHTTP)
17947: Create( AListItems : TListItems)
17948: Create( AOnBytesRemoved : TIddbufferBytesRemoved)
17949: Create( AOnBytesRemoved : TIddbufferBytesRemoved)
17950: Create( AOwner : TCommonCalendar)
17951: Create( AOwner : TComponent)
17952: CREATE( AOWNER : TCOMPONENT)
17953: Create( AOwner : TCustomListView)
17954: Create( AOwner : TCustomOutline)
17955: Create( AOwner : TCustomRichEdit)
17956: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
17957: Create( AOwner : TCustomTreeView)
17958: Create( AOwner : TIdUserManager)
17959: Create( AOwner : TListItems)
17960:
17961: Create(AOwner:TObject;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvent:TBDECallbckEvent;Chain:Bool)
17962: CREATE( AOWNER : TPERSISTENT)
17963: Create( AOwner : TPersistent)
17964: Create( AOwner : TTable)
17965: Create( AOwner : TTreenodes)
17966: Create( AOwner : TWinControl; const ClassName : string)
17967: Create( AParent : TIdCustomHTTP)
17968: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
17969: Create( AProvider : TBaseProvider)
17970: Create( AProvider : TDataSetProvider)
17971: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
17972: Create( ASocket : TSocket)
17973: Create( AStrings : TWideStrings)
17974: Create( AToolBar : TToolBar)
17975: Create( ATreenodes : TTreenodes)
17976: Create( Autofill : boolean)
17977: Create( AWebPageInfo : TABstractWebPageInfo)
17978: Create( AWebRequest : TWebRequest)
17979: Create( Collection : TCollection)
17980: Create( Collection : TIdMessageParts; ABody : TStrings)
17981: Create( Collection : TIdMessageParts; const AFileName : TFileName)
17982: Create( Column : TColumn)
17983: Create( const AConvFamily : TConvFamily; const ADescription : string)
17984: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
17985: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
AFromCommonProc : TConversionProc)
17986: Create( const AInitialState : Boolean; const AManualReset : Boolean)
17987: Create( const ATabSet : TTabSet)
17988: Create( const Compensate : Boolean)
17989: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
17990: Create( const FileName : string)
17991: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
: Int64; const SecAttr : PSecurityAttributes);
17992: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
17993: Create( const MaskValue : string)
17994: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
17995: Create( const Prefix : string)
17996: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
17997: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
17998: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
17999: Create( CoolBar : TCoolBar)

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18000: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
18001: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
18002: Create( DataSet : TDataSet; const
Text: Widestring; Options: TFilterOptions; ParserOptions: TParserOptions; const FieldName : Widestring;
DepFields : TBits; FieldMap : TFieldMap)
18003: Create( DBCtrlGrid : TDBCtrlGrid)
18004: Create( DSTableProducer : TDSTableProducer)
18005: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
18006: Create( ErrorCode : DBIResult)
18007: Create( Field : TBlobField; Mode : TBlobStreamMode)
18008: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
18009: Create( HeaderControl : TCustomHeaderControl)
18010: Create( HTTPRequest : TWebRequest)
18011: Create( iStart : integer; sText : string)
18012: Create( iValue : Integer)
18013: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
18014: Create( MciErrNo : MCIERRO; const Msg : string)
18015: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
18016: Create( Message : string; ErrorCode : DBResult)
18017: Create( Msg : string)
18018: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
18019: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
18020: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
18021: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
18022: Create(oSource:TniRegularExpressionState;oDestination:TniRegularExpressionState;xCharacts:TCharSet;bLambda:bool)
18023: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
18024: Create( Owner : TCustomComboBoxEx)
18025: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS)
18026: Create( Owner : TPersistent)
18027: Create( Params : TStrings)
18028: Create( Size : Cardinal)
18029: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
18030: Create( StatusBar : TCustomStatusBar)
18031: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
18032: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
18033: Create(AHandle:Integer)
18034: Create(AOwner: TComponent); virtual
18035: Create(const AURI : string)
18036: Create(FileName:String;Mode:Word)
18037: Create(Instance:THandle;ResName:String;ResType:PChar)
18038: Create(Stream : TStream)
18039: Create( ADataset : TDataset);
18040: Create( const FileHandle:THandle; const Name:string; Protect:Cardinal; const MaximumSize:Int64; const
SecAttr:PSecurityAttributes);
18041: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
18042: Create2( Other : TOBJECT);
18043: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
18044: CreateError(const anErrCode: Integer; const asReplyMessage: string; const asErrorMessage: string)
18045: CreateFmt( MciErrNo : MCIERRO; const Msg : string; const Args : array of const)
18046: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
18047: CreateLinked( DBCtrlGrid : TDBCtrlGrid)
18048: CREATE(OWNER:TCOMPONENT; Dummy: Integer)
18049: CreateRes( Ident : Integer);
18050: CreateRes( MciErrNo : MCIERRO; Ident : Integer)
18051: CreateRes( ResStringRec : PResStringRec);
18052: CreateResHelp( Ident : Integer; AHelpContext : Integer);
18053: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
18054: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
18055: CreateSize( AWidth, AHeight : Integer)
18056: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
18057:
18058: -----
18059: unit uPSI_MathMax;
18060: -----
18061: CONSTS
18062: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
18063: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
18064: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
18065: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
18066: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
18067: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
18068: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
18069: PiJ: Float = 3.1415926535897932384626433832795; // PI
18070: PI: Extended = 3.1415926535897932384626433832795;
18071: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
18072: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
18073: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
18074: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
18075: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
18076: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
18077: Sqrt10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
18078: SqrtPi: Float = 1.772453850905160272981674833411; // Sqrt(PI)
18079: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
18080: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
18081: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
18082: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
18083: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
18084: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
18085: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)

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18086: Log3: Float      = 0.47712125471966243729502790325512; // Log10(3)
18087: LogPi: Float     = 0.4971498726941338543512682882909; // Log10(PI)
18088: LogE: Float      = 0.43429448190325182765112891891661; // Log10(E)
18089: E: Float          = 2.7182818284590452353602874713527; // Natural constant
18090: hLn2Pi: Float     = 0.91893853320467274178032973640562; // Ln(2*PI)/2
18091: inv2Pi: Float     = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
18092: TwoToPower63: Float = 9223372036854775808.0; // 2^63
18093: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
18094: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
18095: RadCor : Double   = 57.29577951308232; {number of degrees in a radian}
18096: StDelta   : Extended = 0.00001; {delta for difference equations}
18097: StEpsilon  : Extended = 0.00001; {epsilon for difference equations}
18098: StMaxIterations : Integer = 100; {max attempts for convergence}
18099:
18100: procedure SIRegister_StdConvs(CL: TPSPascalCompiler);
18101: begin
18102:   MetersPerInch = 0.0254; // [1]
18103:   MetersPerFoot = MetersPerInch * 12;
18104:   MetersPerYard = MetersPerFoot * 3;
18105:   MetersPerMile = MetersPerFoot * 5280;
18106:   MetersPerNauticalMiles = 1852;
18107:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
18108:   MetersPerLightSecond = 2.99792458E8; // [5]
18109:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
18110:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
18111:   MetersPerCubit = 0.4572; // [6][7]
18112:   MetersPerFathom = MetersPerFoot * 6;
18113:   MetersPerFurlong = MetersPerYard * 220;
18114:   MetersPerHand = MetersPerInch * 4;
18115:   MetersPerPace = MetersPerInch * 30;
18116:   MetersPerRod = MetersPerFoot * 16.5;
18117:   MetersPerChain = MetersPerRod * 4;
18118:   MetersPerLink = MetersPerChain / 100;
18119:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
18120:   MetersPerPica = MetersPerPoint * 12;
18121:
18122:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
18123:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
18124:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
18125:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
18126:   SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
18127:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
18128:
18129:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
18130:   CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
18131:   CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
18132:   CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
18133:   CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
18134:   CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
18135:   CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
18136:   CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
18137:
18138:   CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
18139:   CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
18140:   CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
18141:   CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
18142:   CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
18143:   CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
18144:   CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
18145:   CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
18146:
18147:   CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
18148:   CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
18149:   CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
18150:   CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
18151:   CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
18152:   CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
18153:
18154:   CubicMetersPerUKGallon = 0.00454609; // [2][7]
18155:   CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
18156:   CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
18157:   CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
18158:   CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
18159:   CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
18160:   CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
18161:   CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
18162:   CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
18163:
18164:   GramsPerPound = 453.59237; // [1][7]
18165:   GramsPerDrams = GramsPerPound / 256;
18166:   GramsPerGrains = GramsPerPound / 7000;
18167:   GramsPerTons = GramsPerPound * 2000;
18168:   GramsPerLongTons = GramsPerPound * 2240;
18169:   GramsPerOunces = GramsPerPound / 16;
18170:   GramsPerStones = GramsPerPound * 14;
18171:
18172:   MaxAngle 9223372036854775808.0;
18173:   MaxTanH 5678.2617031470719747459655389854);
18174:   MaxFactorial( 1754);

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18175: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
18176: MinFloatingPoint',(3.3621031431120935062626778173218E-4932);
18177: MaxTanh( 354.89135644669199842162284618659);
18178: MaxFactorial'LongInt'( 170);
18179: MaxFloatingPointD(1.797693134862315907729305190789E+308);
18180: MinFloatingPointD(2.2250738585072013830902327173324E-308);
18181: MaxTanH( 44.361419555836499802702855773323);
18182: MaxFactorial'LongInt'( 33);
18183: MaxFloatingPointS( 3.4028236692093846346337460743177E+38);
18184: MinFloatingPointS( 1.1754943508222875079687365372222E-38);
18185: PiExt( 3.1415926535897932384626433832795);
18186: RatioDegToRad( PiExt / 180.0);
18187: RatioGradToRad( PiExt / 200.0);
18188: RatioDegToGrad( 200.0 / 180.0);
18189: RatioGradToDeg( 180.0 / 200.0);
18190: Crc16PolynomCCITT'LongWord $1021);
18191: Crc16PolynomIBM'LongWord $8005);
18192: Crc16Bits'LongInt'( 16);
18193: Crc16Bytes'LongInt'( 2);
18194: Crc16HighBit'LongWord $8000);
18195: NotCrc16HighBit','LongWord $7FFF);
18196: Crc32PolynomIEEE','LongWord $04C11DB7);
18197: Crc32PolynomCastagnoli','LongWord $1EDC6F41);
18198: Crc32Koopman','LongWord $741B8CD7);
18199: Crc32Bits','LongInt'( 32);
18200: Crc32Bytes','LongInt'( 4);
18201: Crc32HighBit','LongWord $80000000);
18202: NotCrc32HighBit','LongWord $7FFFFFFF);
18203:
18204: MinByte      = Low(Byte);
18205: MaxByte      = High(Byte);
18206: MinWord      = Low(Word);
18207: MaxWord      = High(Word);
18208: MinShortInt  = Low(ShortInt);
18209: MaxShortInt  = High(ShortInt);
18210: MinSmallInt  = Low(SmallInt);
18211: MaxSmallInt  = High(SmallInt);
18212: MinLongWord   = LongWord(Low(LongWord));
18213: MaxLongWord   = LongWord(High(LongWord));
18214: MinLongInt   = LongInt(Low(LongInt));
18215: MaxLongInt   = LongInt(High(LongInt));
18216: MinInt64     = Int64(Low(Int64));
18217: MaxInt64     = Int64(High(Int64));
18218: MinInteger   = Integer(Low(Integer));
18219: MaxInteger   = Integer(High(Integer));
18220: MinCardinal  = Cardinal(Low(Cardinal));
18221: MaxCardinal  = Cardinal(High(Cardinal));
18222: MinNativeUInt = NativeUInt(Low(NativeUInt));
18223: MaxNativeUInt = NativeUInt(High(NativeUInt));
18224: MinNativeInt  = NativeInt(Low(NativeInt));
18225: MaxNativeInt  = NativeInt(High(NativeInt));
18226: Function Cosh( const Z : Float) : Float;
18227: Function SinH( const Z : Float) : Float;
18228: Function TanH( const Z : Float) : Float;
18229:
18230:
18231: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
18232: InvLn2      = 1.44269504088896340736; { 1/Ln(2) }
18233: InvLn10     = 0.43429448190325182765; { 1/Ln(10) }
18234: TwoPi       = 6.28318530717958647693; { 2*pi }
18235: PiDiv2     = 1.57079632679489661923; { Pi/2 }
18236: SqrtPi     = 1.77245385090551602730; { Sqrt(Pi) }
18237: Sqrt2Pi    = 2.50662827463100050242; { Sqrt(2*Pi) }
18238: InvSqrt2Pi  = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
18239: LnSqrt2Pi  = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
18240: Ln2PiDiv2  = 0.91893853320467274178; { Ln(2*Pi)/2 }
18241: Sqrt2      = 1.41421356237309504880; { Sqrt(2) }
18242: Sqrt2Div2  = 0.70710678118654752440; { Sqrt(2)/2 }
18243: Gold       = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
18244: CGold      = 0.38196601125010515179; { 2 - GOLD }
18245: MachEp    = 2.220446049250313E-16; { 2^(-52) }
18246: MaxNum     = 1.797693134862315E+308; { 2^1024 }
18247: MinNum     = 2.225073858507202E-308; { 2^(-1022) }
18248: MaxLog     = 709.7827128933840;
18249: MinLog     = -708.3964185322641;
18250: MaxFac     = 170;
18251: MaxGam     = 171.624376956302;
18252: MaxLgm     = 2.556348E+305;
18253: SingleCompareDelta = 1.0E-34;
18254: DoubleCompareDelta = 1.0E-280;
18255: {$IFDEF CLR}
18256: ExtendedCompareDelta = DoubleCompareDelta;
18257: {$ELSE}
18258: ExtendedCompareDelta = 1.0E-4400;
18259: {$ENDIF}
18260: Bytes1KB   = 1024;
18261: Bytes1MB   = 1024 * Bytes1KB;
18262: Bytes1GB   = 1024 * Bytes1MB;
18263: Bytes64KB  = 64 * Bytes1KB;

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18264: Bytes64MB = 64 * Bytes1MB;
18265: Bytes2GB = 2 * LongWord(Bytes1GB);
18266:   clBlack32', $FF000000 );
18267:   clDimGray32', $FF3F3F3F );
18268:   clGray32', $FF7F7F7F );
18269:   clLightGray32', $FFBFBFBF );
18270:   clWhite32', $FFFFFF );
18271:   clMaroon32', $FF7F0000 );
18272:   clGreen32', $FF007F00 );
18273:   clOlive32', $FF7F7F00 );
18274:   clNavy32', $FF00007F );
18275:   clPurple32', $FF7F007F );
18276:   clTeal32', $FF007F7F );
18277:   clRed32', $FFFF0000 );
18278:   clLime32', $FF00FF00 );
18279:   clYellow32', $FFFFFF00 );
18280:   clBlue32', $FF0000FF );
18281:   clFuchsia32', $FFFF00FF );
18282:   clAqua32', $FF00FFFF );
18283:   clAliceBlue32', $FFF0F8FF );
18284:   clAntiqueWhite32', $FFFAEBD7 );
18285:   clAquamarine32', $FF7FFFD4 );
18286:   clAzure32', $FFFF0FFF );
18287:   clBeige32', $FFF5F5DC );
18288:   clBisque32', $FFFFE4C4 );
18289:   clBlancheDalmond32', $FFFFEBCD );
18290:   clBlueViolet32', $FF8A2BE2 );
18291:   clBrown32', $FFA52A2A );
18292:   clBurlyWood32', $FFDEB887 );
18293:   clCadetblue32', $FF5F9EA0 );
18294:   clChartreuse32', $FF7FFF00 );
18295:   clChocolate32', $FFD2691E );
18296:   clCoral32', $FFFF7F50 );
18297:   clCornFlowerBlue32', $FF6495ED );
18298:   clCornSilk32', $FFFFF8DC );
18299:   clCrimson32', $FFDC143C );
18300:   clDarkBlue32', $FF00008B );
18301:   clDarkCyan32', $FF008B8B );
18302:   clDarkGoldenRod32', $FFB8860B );
18303:   clDarkGray32', $FFA9A9A9 );
18304:   clDarkGreen32', $FF006400 );
18305:   clDarkGrey32', $FFA9A9A9 );
18306:   clDarkKhaki32', $FFBD876B );
18307:   clDarkMagenta32', $FF8B008B );
18308:   clDarkOliveGreen32', $FF556B2F );
18309:   clDarkOrange32', $FFFF8C00 );
18310:   clDarkOrchid32', $FF9932CC );
18311:   clDarkRed32', $FF8B0000 );
18312:   clDarkSalmon32', $FFE9967A );
18313:   clDarkSeaGreen32', $FF8FB88F );
18314:   clDarkSlateBlue32', $FF483D8B );
18315:   clDarkSlateGray32', $FF2F4F4F );
18316:   clDarkSlateGrey32', $FF2F4F4F );
18317:   clDarkTurquoise32', $FF00CED1 );
18318:   clDarkViolet32', $FF9400D3 );
18319:   clDeepPink32', $FFFF1493 );
18320:   clDeepSkyBlue32', $FF00BFFF );
18321:   clDodgerBlue32', $FF1E90FF );
18322:   clFireBrick32', $FFB22222 );
18323:   clFloralWhite32', $FFFFFFAF0 );
18324:   clGainsboro32', $FFDCDCDC );
18325:   clGhostWhite32', $FFF8F8FF );
18326:   clGold32', $FFFFD700 );
18327:   clGoldenRod32', $FFDAE520 );
18328:   clGreenYellow32', $FFADFF2F );
18329:   clGrey32', $FF808080 );
18330:   clHoneyDew32', $FFF0FF0 );
18331:   clHotPink32', $FFFF69B4 );
18332:   clIndianRed32', $FFCD5C5C );
18333:   clIndigo32', $FF4B0082 );
18334:   clIvory32', $FFFFFF0 );
18335:   clKhaki32', $FFF0E68C );
18336:   clLavender32', $FFE6E6FA );
18337:   clLavenderBlush32', $FFFFFF0F5 );
18338:   clLawnGreen32', $FF7CFC00 );
18339:   clLemonChiffon32', $FFFFFFACD );
18340:   clLightBlue32', $FFADD8E6 );
18341:   clLightCoral32', $FFFO8080 );
18342:   clLightCyan32', $FFE0FFFF );
18343:   clLightGoldenRodYellow32', $FFFFAFAD2 );
18344:   clLightGreen32', $FF90EE90 );
18345:   clLightGrey32', $FFD3D3D3 );
18346:   clLightPink32', $FFFFB6C1 );
18347:   clLightSalmon32', $FFFA07A );
18348:   clLightSeagreen32', $FF20B2AA );
18349:   clLightSkyblue32', $FF87CEFA );
18350:   clLightSlategray32', $FF778899 );
18351:   clLightSlategrey32', $FF778899 );
18352:   clLightSteelblue32', $FFB0C4DE );

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18353:   clLightYellow32', $FFFFFFE0 ));  

18354:   clLtGray32', $FFC0C0C0 ));  

18355:   clMedGray32', $FFA0A0A4 ));  

18356:   clDkGray32', $FF808080 ));  

18357:   clMoneyGreen32', $FFC0DCC0 ));  

18358:   clLegacySkyBlue32', $FFA6CAF0 ));  

18359:   clCream32', $FFFFFFBF0 ));  

18360:   clLimeGreen32', $FF32CD32 ));  

18361:   clLinen32', $FFFFAF0E6 ));  

18362:   clMediumAquamarine32', $FFP66CDAA ));  

18363:   clMediumBlue32', $FF0000CD ));  

18364:   clMediumOrchid32', $FFBAA55D3 ));  

18365:   clMediumPurple32', $FF9370DB ));  

18366:   clMediumSeaGreen32', $FF3CB371 ));  

18367:   clMediumSlateBlue32', $FF7B68EE ));  

18368:   clMediumSpringGreen32', $FF00FA9A ));  

18369:   clMediumTurquoise32', $FF48D1CC ));  

18370:   clMediumVioletRed32', $FFC71585 ));  

18371:   clMidnightBlue32', $FF191970 ));  

18372:   clMintCream32', $FFF5FFFA ));  

18373:   clMistyRose32', $FFFFE4E1 ));  

18374:   clMoccasin32', $FFFFE4B5 ));  

18375:   clNavajoWhite32', $FFFFFDEAD ));  

18376:   clOldLace32', $FFFDFA5E6 ));  

18377:   clOliveDrab32', $FF6B8E23 ));  

18378:   clOrange32', $FFFFA500 ));  

18379:   clOrangeRed32', $FFFF4500 ));  

18380:   clOrchid32', $FFDA70D6 ));  

18381:   clPaleGoldenRod32', $FFEEE8AA ));  

18382:   clPaleGreen32', $FF98FB98 ));  

18383:   clPaleTurquoise32', $FFAFEEEE ));  

18384:   clPaleVioletred32', $FFDB7093 ));  

18385:   clPapayaWhip32', $FFFFEFD5 ));  

18386:   clPeachPuff32', $FFFFDAB9 ));  

18387:   clPeru32', $FFCD853B ));  

18388:   clPlum32', $FFDDA0DD ));  

18389:   clPowderBlue32', $FFB0E0E6 ));  

18390:   clRosyBrown32', $FFBC8F8F ));  

18391:   clRoyalBlue32', $FF4169E1 ));  

18392:   clSaddleBrown32', $FF8B4513 ));  

18393:   clSalmon32', $FFFA8072 ));  

18394:   clSandyBrown32', $FFF4A460 ));  

18395:   clSeaGreen32', $FF2E8B57 ));  

18396:   clSeaShell32', $FFFFF5EE ));  

18397:   clSienna32', $FFA0522D ));  

18398:   clSilver32', $FFC0C0C0 ));  

18399:   clSkyblue32', $FF87CEEB ));  

18400:   clSlateBlue32', $FF6A5ACD ));  

18401:   clSlateGray32', $FF708090 ));  

18402:   clSlateGrey32', $FF708090 ));  

18403:   clSnow32', $FFFFFAFA ));  

18404:   clSpringgreen32', $FF00FF7F ));  

18405:   clSteelblue32', $FF4682B4 ));  

18406:   clTan32', $FFD2B48C ));  

18407:   clThistle32', $FFD8BF08 ));  

18408:   clTomato32', $FFFF6347 ));  

18409:   clTurquoise32', $FF40E0D0 ));  

18410:   clViolet32', $FFEE82EE ));  

18411:   clWheat32', $FFF5DEB3 ));  

18412:   clWhitesmoke32', $FFF5F5F5 ));  

18413:   clYellowgreen32', $FF9ACD32 ));  

18414:   clTrWhite32', $7FFFFFFF ));  

18415:   clTrBlack32', $7F000000 ));  

18416:   clTrRed32', $7FFF0000 ));  

18417:   clTrGreen32', $7F00FF00 ));  

18418:   clTrBlue32', $7F0000FF ));  

18419: // Fixed point math constants  

18420: FixedOne = $10000; FixedHalf = $7FFF;  

18421: FixedPI = Round(PI * FixedOne);  

18422: FixedToFloat = 1/FixedOne;  

18423:  

18424: Special Types
18425: ****
18426: type Complex = record
18427:   X, Y : Float;
18428: end;
18429: type TVector      = array of Float;
18430: TIntVector    = array of Integer;
18431: TCompVector   = array of Complex;
18432: TBoolVector   = array of Boolean;
18433: TStringVector = array of String;
18434: TMatrix       = array of TVector;
18435: TIntMatrix    = array of TIntVector;
18436: TCompMatrix   = array of TCompVector;
18437: TBoolMatrix   = array of TBoolVector;
18438: TStringMatrix = array of TString;
18439: TByteArray    = array[0..32767] of byte; !
18440: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
18441: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);

```

```

18442: T2StringArray = array of array of string;
18443: T2IntegerArray = array of array of integer;
18444: AddTypes('INT_PTR', 'Integer');
18445: AddTypes('LONG_PTR', 'Integer');
18446: AddTypes('UINT_PTR', 'Cardinal');
18447: AddTypes('ULONG_PTR', 'Cardinal');
18448: AddTypeS('DWORD_PTR', 'ULONG_PTR');
18449: TIntegerDynArray', 'array of Integer;
18450: TCardinalDynArray', 'array of Cardinal;
18451: TWordDynArray', 'array of Word;
18452: TSmallIntDynArray', 'array of SmallInt;
18453: TByteDynArray', 'array of Byte;
18454: TShortIntDynArray', 'array of ShortInt;
18455: TInt64DynArray', 'array of Int64;
18456: TLongWordDynArray', 'array of LongWord;
18457: TSingleDynArray', 'array of Single;
18458: TDoubleDynArray', 'array of Double;
18459: TBooleanDynArray', 'array of Boolean;
18460: TStringDynArray', 'array of string;
18461: TWideStringDynArray', 'array of WideString;
18462: TDynByteArray = array of Byte;
18463: TDynShortintArray = array of Shortint;
18464: TDynSmallintArray = array of Smallint;
18465: TDynWordArray = array of Word;
18466: TDynIntegerArray = array of Integer;
18467: TDynLongintArray = array of Longint;
18468: TDynCardinalArray = array of Cardinal;
18469: TDynInt64Array = array of Int64;
18470: TDynExtendedArray = array of Extended;
18471: TDynDoubleArray = array of Double;
18472: TDynSingleArray = array of Single;
18473: TDynFloatArray = array of Float;
18474: TDynPointerArray = array of Pointer;
18475: TDynStringArray = array of string;
18476: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
18477: ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
18478: TSynSearchOptions = set of TSynSearchOption;
18479:
18480:
18481:
18482: /* Project : Base Include RunTime Lib for maxBox *Name: pas_includebox.inc
18483: -----
18484: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
18485: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
18486: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
18487: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18488: function CheckStringSum(vstring: string): integer;
18489: function HexToInt(HexNum: string): LongInt;
18490: function IntToBin(Int: Integer): String;
18491: function BinToInt(Binary: String): Integer;
18492: function HexToBin(HexNum: string): string; external2;
18493: function BinToHex(Binary: String): string;
18494: function IntToFloat(i: Integer): double;
18495: function AddThousandSeparator(S: string; myChr: Char): string;
18496: function Max3(const X,Y,Z: Integer): Integer;
18497: procedure Swap(var X,Y: char); // faster without inline;
18498: procedure ReverseString(var S: String);
18499: function CharToHexStr(Value: Char): string;
18500: function CharToUnicode(Value: Char): string;
18501: function Hex2Dec(Value: Str002): Byte;
18502: function HexStrCodeToStr(Value: string): string;
18503: function HexToStr(i: integer; value: string): string;
18504: function UniCodeToStr(Value: string): string;
18505: function CRC16(statement: string): string;
18506: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
18507: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
18508: procedure SearchAndCopy(aStrlist: TStrings; aSearchStr, aNewStr: string; offset: integer);
18509: Procedure ExecuteCommand(executeFile, paramstring: string);
18510: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18511: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
18512: procedure SearchAndOpenDoc(vfilenamepath: string);
18513: procedure ShowInterfaces(myFile: string);
18514: function Fact2(av: integer): extended;
18515: Function BoolToStr(B: Boolean): string;
18516: Function GCD(x, y : LongInt) : LongInt;
18517: function LCM(m,n: longint): longint;
18518: function GetASCII: string;
18519: function GetItemHeight(Font: TFont): Integer;
18520: function myPlaySound(s: pchar; flag, syncflag: integer): boolean;
18521: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
18522: function getHINSTANCE: longword;
18523: function getHMODULE: longword;
18524: function GetASCII: string;
18525: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
18526: function WordIsOk(const AWord: string; var VW: Word): boolean;
18527: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
18528: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
18529: function SafeStr(const s: string): string;
18530: function ExtractUrlPath(const FileName: string): string;

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18531: function ExtractUrlName(const FileName: string): string;
18532: function IsInternet: boolean;
18533: function RotateLeft1Bit_u32( Value: uint32): uint32;
18534: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var LF:TStLinEst; ErrorStats : Boolean);
18535: procedure getEnvironmentInfo;
18536: procedure AntiFreeze;
18537: function GetCPUSpeed: Double;
18538: function IsVirtualPcGuest : Boolean;
18539: function IsVmWareGuest : Boolean;
18540: procedure StartSerialDialog;
18541: function IsWoW64: boolean;
18542: function IsWow64String(var s: string): Boolean;
18543: procedure StartThreadDemo;
18544: Function RGB(R,G,B: Byte): TColor;
18545: Function Sendln(amess: string): boolean;
18546: Procedure maxbox;
18547: Function AspectRatio(aWidth, aHeight: Integer): String;
18548: function wget(aURL, afile: string): boolean;
18549: procedure PrintList(Value: TStringList);
18550: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
18551: procedure getEnvironmentInfo;
18552: procedure AntiFreeze;
18553: function getBitmap(apath: string): TBitmap;
18554: procedure ShowMessageBig(const aText : string);
18555: function YesNoDialog(const ACaption, AMsg: string): boolean;
18556: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
18557: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
18558: //function myStrToBytes(const Value: String): TBytes;
18559: //function myBytesToStr(const Value: TBytes): String;
18560: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18561: function getBitmap(apath: string): TBitmap;
18562: procedure ShowMessageBig(const aText : string);
18563: Function StrToBytes(const Value: String): TBytes;
18564: Function BytesToStr(const Value: TBytes): String;
18565: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18566: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout:TimeOut;Retries:Int;var HostName:String):Bool;
18567: function FindInPaths(const fileName, paths : String) : String;
18568: procedure initHexArray(var hexn: THexArray);
18569: function josephusG(n,k: integer; var graphout: string): integer;
18570: function isPowerof2(num: int64): boolean;
18571: function powerOf2(exponent: integer): int64;
18572: function getBigPI: string;
18573: procedure Makesound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
18574: function GetASCIILine: string;
18575: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
18576: pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
18577: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
18578: procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
18579: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
18580: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
18581: function isKeyPressed: boolean;
18582: function Keypress: boolean;
18583: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
18584: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
18585: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
18586: function GetOSName: string;
18587: function GetOSVersion: string;
18588: function GetOSNumber: string;
18589: function getEnvironmentString: string;
18590: procedure StrReplace(var Str: String; Old, New: String);
18591: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18592: function getTeamViewerID: string;
18593: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
18594: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
18595: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18596: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
18597: function StartSocketService: Boolean;
18598: procedure StartSocketServiceForm;
18599: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
18600: function GetFileList1(apath: string): TStringlist;
18601: procedure LetFileList(FileList: TStringlist; apath: string);
18602: procedure StartWeb(NSURL: string);
18603: function GetTodayFiles(startdir, amask: string): TStringlist;
18604: function PortTCPIsOpen(dwPort: Word; ipAddressStr: String): boolean;
18605: function JavahashCode(val: string): Integer;
18606: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
18607: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
18608: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
18609: Procedure HideWindowForSeconds2(secs: integer; appHandle, aSelf: TForm); { //3 seconds}
18610: Procedure ConvertToGray(Cnv: TCanvas);
18611: function GetFileDate(aFile:string; aWithTime:Boolean):string;
18612: procedure ShowMemory;
18613: function ShowMemory2: string;
18614: function getHostIP: string;
18615: procedure ShowBitmap(bmap: TBitmap);
18616: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
18617: function CreateDBGridForm(dblist: TStringList): TListBox;

```

```

18618:
18619:
18620: // News of 3.9.8 up
18621: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18622: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18623: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18624: JvChart - TJvChart Component - 2009 Public
18625: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
18626: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
18627: TAdoQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions
18628: DMath DLL included incl. Demos
18629: Interface Navigator menu/View/Intf Navigator
18630: Unit Explorer menu/Debug/Units Explorer
18631: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maXcel
18632: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
18633: Script History to 9 Files WebServer light /Options/Addons/WebServer
18634: Full Text Finder, JVSSimLogic Simulator Package
18635: Halt-Stop Program in Menu, WebServer2, Stop Event ,
18636: Conversion Routines, Prebuild Forms, CodeSearch
18637: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18638: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18639: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18640: JvChart - TJvChart Component - 2009 Public, mXGames, JvgXMLLoader, TJvPaintFX
18641: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
18642: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
18643: IDE Reflection API, Session Service Shell S3
18644: additional SynEdit API, IsKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
18645: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
18646: arduino map() function, PRandom Generator
18647: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
18648: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
18649: REST Test Lib, Multilang Component, Forth Interpreter
18650: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
18651: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
18652: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18653: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18654: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
18655: QRCode Service, add more CFunctions like CDateTime of Synapse
18656: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
18657: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
18658: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
18659: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
18660: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
18661: BOLD Package, Indy Package5, maTRIX. MATHMAX
18662: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
18663: emax layers: system-package-component-unit-class-function-block
18664: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
18665: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
18666: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
18667: OpenGL Game Demo: ..Options/Add Ons/Reversi
18668: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
18669: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
18670: 7% performance gain (hot spot profiling)
18671: PEP -Pascal Education Program , GSM Module, CGI, PHP Runner
18672: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
18673: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
18674: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
18675:
18676: add routines in 3.9.7.5
18677: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEExec);
18678: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEExec);
18679: 069: procedure RIRegister_IdStrings_Routines(S: TPSEExec);
18680: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEExec);
18681: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEExec);
18682: 374: procedure RIRegister_SerDlgs_Routines(S: TPSEExec);
18683: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEExec);
18684:
18685: ////////////////////////////// TestUnits //////////////////////////////
18686: SelftestPEM;
18687: SelfTestCFundamentUtils;
18688: SelfTestCFileUtils;
18689: SelfTestCDateTime;
18690: SelfTestCTimer;
18691: SelfTestCRandom;
18692: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter
18693:             Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath
18694:
18695: // Note: There's no need for installing a client certificate in the
18696: // webbrowser. The server asks the webbrowser to send a certificate but
18697: // if nothing is installed the software will work because the server
18698: // doesn't check to see if a client certificate was supplied. If you want you can install:
18699: //
18700: //     file: c_cacert.p12
18701: //     password: c_cakey
18702:
18703: TGraphicControl = class(TControl)
18704: private
18705:   FCanvas: TCanvas;
18706:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;

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```

18707: protected
18708:   procedure Paint; virtual;
18709:   property Canvas: TCanvas read FCanvas;
18710: public
18711:   constructor Create(AOwner: TComponent); override;
18712:   destructor Destroy; override;
18713: end;
18714:
18715: TCustomControl = class(TWinControl)
18716: private
18717:   FCanvas: TCanvas;
18718:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
18719: protected
18720:   procedure Paint; virtual;
18721:   procedure PaintWindow(DC: HDC); override;
18722:   property Canvas: TCanvas read FCanvas;
18723: public
18724:   constructor Create(AOwner: TComponent); override;
18725:   destructor Destroy; override;
18726: end;
18727: RegisterPublishedProperties;
18728: ('ONCHANGE', 'TNotifyEvent', iptrw);
18729: ('ONCLICK', 'TNotifyEvent', iptrw);
18730: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
18731: ('ONENTER', 'TNotifyEvent', iptrw);
18732: ('ONEXIT', 'TNotifyEvent', iptrw);
18733: ('ONKEYDOWN', 'TKeyEvent', iptrw);
18734: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
18735: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
18736: ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
18737: ('ONMOUSEUP', 'TMouseEvent', iptrw);
18738: //*****mX4 ini-file Configuration*****
18739: // To stop the while loop, click on Options>Show Include (boolean switch) !
18740: Control a loop in a script with a form event:
18741: IncludeON; //control the while loop
18742: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
18743:
18744: //-----
18745: //*****mX4 ini-file Configuration*****
18746: //-----
18747: using config file maxboxdef.ini           menu/Help/Config File
18748:
18749: //*** Definitions for maxBox mX3 ***
18750: [FORM]
18751: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
18752: FONTSIZE=14
18753: EXTENSION=txt
18754: SCREENX=1386
18755: SCREENY=1077
18756: MEMHEIGHT=350
18757: PRINTFONT=Courier New //GUI Settings
18758: LINENUMBERS=Y //line numbers at gutter in editor at left side
18759: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! - menu Debug>Show Last Exceptions
18760: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
18761: BOOTSCRIPT=Y //enabling load a boot script
18762: MEMORYREPORT=Y //shows memory report on closing maxBox
18763: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
18764: NAVIGATOR=N //shows function list at the right side of editor
18765: NAVWIDTH=350 //width of the right side interface list <CTRL L>
18766: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
18767: [WEB]
18768: IMPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
18769: IPHOST=192.168.1.53
18770: ROOTCERT=filepathY
18771: SCERT=filepathY
18772: RSAKEY=filepathY
18773: VERSIONCHECK=Y
18774:
18775: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
18776:
18777: Also possible to set report memory in script to override ini setting
18778: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
18779:
18780:
18781: After Change the ini file you can reload the file with ..../Help/Config Update
18782:
18783: //-----
18784: //*****mX4 maildef.ini ini-file Configuration*****
18785: //-----
18786: //*** Definitions for maxMail ***
18787: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
18788: [MAXMAIL]
18789: HOST=mailto:software@schule.ch
18790: USER=mailusername
18791: PASS=password
18792: PORT=110
18793: SSL=Y
18794: BODY=Y
18795: LAST=5

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18796:
18797: ADO Connection String:
18798: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
18799:
18800: OpenSSL Lib: unit ssl_openssl_lib;
18801: {$IFDEF CIL}
18802: const
18803: {$IFDEF LINUX}
18804: DLLSSLLName = 'libssl.so';
18805: DLLUtilName = 'libcrypto.so';
18806: {$ELSE}
18807: DLLSSLLName = 'ssleay32.dll';
18808: DLLUtilName = 'libeay32.dll';
18809: {$ENDIF}
18810: {$ELSE}
18811: var
18812: {$IFNDEF MSWINDOWS}
18813: {$IFDEF DARWIN}
18814: DLLSSLLName: string = 'libssl.dylib';
18815: DLLUtilName: string = 'libcrypto.dylib';
18816: {$ELSE}
18817: DLLSSLLName: string = 'libssl.so';
18818: DLLUtilName: string = 'libcrypto.so';
18819: {$ENDIF}
18820: {$ELSE}
18821: DLLSSLLName: string = 'ssleay32.dll';
18822: DLLSSLLName2: string = 'libssl32.dll';
18823: DLLUtilName: string = 'libeay32.dll';
18824: {$ENDIF}
18825: {$ENDIF}
18826:
18827:
18828: //-----
18829: //*****mX4 Macro Tags *****
18830: //-----
18831:
18832: asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
18833:
18834: //Tag Macros
18835:
18836: asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
18837:
18838: //Tag Macros
18839: 10188: SearchAndCopy(memo1.lines, '#name', getUserNameWin, 11);
18840: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
18841: 10190: SearchAndCopy(memo1.lines, '#host', getComputerNameWin, 11);
18842: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
18843: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
18844: 10199: SearchAndCopy(memo1.lines, '#fils', fname + '+' + SHA1(Act_Filename), 11);
18845: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
18846: 10194: SearchAndCopy(memo1.lines, '#perf', perfTime, 11);
18847: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
18848: [getUserNameWin, getComputerNameWin, datetimetoStr(now),
18849: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s %s ',
18850: 10197: [getUserNameWin, getComputerNameWin, datetimetoStr(now), Act_Filename]), 11);
18851: [getUserNameWin, getComputerNameWin, datetimetoStr(now), Act_Filename]), 11);
18852: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
18853: [perfTime, numProcessesThreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
18854: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
18855: [getDNS, GetLocalIPs, getIPAddress(getComputerNameWin)]), 10);
18856:
18857: //#tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
18858:
18859: //Replace Macros
18860: SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
18861: SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
18862: SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
18863: SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPath, 9);
18864: SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
18865: SearchAndCopy(memo1.lines, '<SOURCE>', ExePath + 'Source', 8);
18866:
18867: 10198: SearchAndCopy(memo1.lines, '#tech!perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
18868: [perfTime, numProcessesThreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
18869: //#tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
18870: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt
18871:
18872: //-----
18873: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
18874: //-----
18875:
18876: while I < sl.Count do begin
18877: // if MatchesMask(sl[I], '*/? TODO ([a-z0-9_]*#[1-9#]*:*)' ) then
18878: if MatchesMask(sl[I], '*/? TODO (?*#?#)*:*)' ) then
18879: BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
18880: else if MatchesMask(sl[I], '*/? DONE (?*#?#)*:*)' ) then
18881: BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
18882: else if MatchesMask(sl[I], '*/? TODO (#?#)*:*)' ) then
18883: BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO

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1884:     else if MatchesMask(sl[I], '*/? DONE (#?#)*:*') then
1885:         BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
1886:     else if MatchesMask(sl[I], '*/*?TODO*:*)' then
1887:         BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
1888:     else if MatchesMask(sl[I], '*/*?*DONE*:*)' then
1889:         BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
1890:     Inc(I);
1891: end;
1892:
1893:
1894: //-----
1895: //*****mX4 Public Tools API *****
1896: //-----
1897: file : unit uPSI_fMain.pas; {SOTAP} Open Tools API Catalog
1898: // Those functions concern the editor and preprocessor, all of the IDE
1899: Example: Call it with maxForm1.InfolClick(self)
1900: Note: Call all Methods with maxForm1, e.g.:
1901:         maxForm1.ShellStyle1Click(self);
1902:
1903: procedure SIRegister_fMain(CL: TPSPascalCompiler);
1904: begin
1905:     Const ('BYTECODE','String 'bytecode.txt'
1906:     Const ('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT)'
1907:     Const ('PSMODEL','String PS Modelfiles (*.uc)|*.UC'
1908:     Const ('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS'
1909:     Const ('PSINC','String PS Includes (*.inc)|*.INC'
1910:     Const ('DEFFILENAME','String 'firstdemo.txt'
1911:     Const ('DEFINIFILE','String 'maxboxdef.ini'
1912:     Const ('EXCEPTLOGFILE','String 'maxboxerrorlog.txt'
1913:     Const ('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt'
1914:     Const ('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf'
1915:     Const ('ALLOBJECTSLIST','String 'docs\VCL.pdf'
1916:     Const ('ALLRESOURCELIST','String 'docs\upsi_allresourcelist.txt'
1917:     Const ('ALLUNITLIST','String 'docs\maxbox3_9.xml')
1918:     Const ('INCLUDEBOX','String 'pas_includebox.inc'
1919:     Const ('BOOTSCRIPT','String 'maxbootscript.txt'
1920:     Const ('MBVERSION','String '3.9.9.95
1921:     Const ('VERSION','String'3.9.9.95
1922:     Const ('MBVERI','String '399
1923:     Const ('MBVERIALL','Integer'(399);
1924:     Const ('EXENAME','String 'maxBox3.exe
1925:     Const ('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
1926:     Const ('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
1927:     Const ('MXINTERNETCHECK','String 'www.ask.com
1928:     Const ('MXMAIL','String 'max@kleiner.com
1929:     Const ('TAB','Char #$09);
1930:     Const ('CODECOMPLETION','String 'bds_delphi.dci
1931:     SIRegister_TMaxForm1(CL);
1932:
1933: end;
1934:
1935: with FindClass('TForm','TMaxForm1') do begin
1936:     memo2', 'TMemo', iptrw);
1937:     memo1', 'TSynMemo', iptrw);
1938:     CB1SCList', 'TComboBox', iptrw);
1939:     mxNavigator', 'TComboBox', iptrw);
1940:     IPHost', 'string', iptrw);
1941:     IPPort', 'integer', iptrw);
1942:     COMPort', 'integer', iptrw); //3.9.6.4
1943:     Splitter1', 'TSplitter', iptrw);
1944:     PSSScript', 'TPSScript', iptrw);
1945:     PS3DllPlugin', 'TPSDllPlugin', iptrw);
1946:     MainMenuItem', 'TMainMenu', iptrw);
1947:     Program1', 'TMenuItem', iptrw);
1948:     Compile1', 'TMenuItem', iptrw);
1949:     Files1', 'TMenuItem', iptrw);
1950:     open1', 'TMenuItem', iptrw);
1951:     Save1', 'TMenuItem', iptrw);
1952:     Options1', 'TMenuItem', iptrw);
1953:     Savebefore1', 'TMenuItem', iptrw);
1954:     Largefont1', 'TMenuItem', iptrw);
1955:     sBytecode1', 'TMenuItem', iptrw);
1956:     Saveas3', 'TMenuItem', iptrw);
1957:     Clear1', 'TMenuItem', iptrw);
1958:     Slinenumbers1', 'TMenuItem', iptrw);
1959:     About1', 'TMenuItem', iptrw);
1960:     Search1', 'TMenuItem', iptrw);
1961:     SynPasSyn1', 'TSynPasSyn', iptrw);
1962:     memo1', 'TSynMemo', iptrw);
1963:     SynEditSearch1', 'TSynEditSearch', iptrw);
1964:     WordWrap1', 'TMenuItem', iptrw);
1965:     XPMManifest1', 'TXPManifest', iptrw);
1966:     SearchNext1', 'TMenuItem', iptrw);
1967:     Replace1', 'TMenuItem', iptrw);
1968:     PSImport_Controls1', 'TPSImport_Controls', iptrw);
1969:     PSImport_Classes1', 'TPSImport_Classes', iptrw);
1970:     ShowInclude1', 'TMenuItem', iptrw);
1971:     SynEditPrint1', 'TSynEditPrint', iptrw);
1972:     Printout1', 'TMenuItem', iptrw);

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18973: mnPrintColors1', 'TMenuItem', iptrw);
18974: dlgFilePrint', 'TPrintDialog', iptrw);
18975: dlgPrintFont1', 'TFontDialog', iptrw);
18976: mnuPrintFont1', 'TMenuItem', iptrw);
18977: Includel', 'TMenuItem', iptrw);
18978: CodeCompletionList1', 'TMenuItem', iptrw);
18979: IncludeList1', 'TMenuItem', iptrw);
18980: ImageList1', 'TImageList', iptrw);
18981: ImageList2', 'TImageList', iptrw);
18982: CoolBar1', 'TCoolBar', iptrw);
18983: ToolBar1', 'TToolBar', iptrw);
18984: btnLoad', 'TToolButton', iptrw);
18985: ToolButton2', 'TToolButton', iptrw);
18986: btnFind', 'TToolButton', iptrw);
18987: btnCompile', 'TToolButton', iptrw);
18988: btnTrans', 'TToolButton', iptrw);
18989: btnUseCase', 'TToolButton', iptrw); //3.8
18990: tooltnTutorial', 'TToolButton', iptrw);
18991: tbtn6res', 'TToolButton', iptrw);
18992: ToolButton5', 'TToolButton', iptrw);
18993: ToolButton1', 'TToolButton', iptrw);
18994: ToolButton3', 'TToolButton', iptrw);
18995: statusBar1', 'TStatusBar', iptrw);
18996: SaveOutput1', 'TMenuItem', iptrw);
18997: ExportClipboard1', 'TMenuItem', iptrw);
18998: Close1', 'TMenuItem', iptrw);
18999: Manuall', 'TMenuItem', iptrw);
19000: About2', 'TMenuItem', iptrw);
19001: loadLastfile1', 'TMenuItem', iptrw);
19002: imglogo', 'TImage', iptrw);
19003: cedebbug', 'TPSScriptDebugger', iptrw);
19004: debugPopupMenul', 'TPopupMenu', iptrw);
19005: BreakPointMenu1', 'TMenuItem', iptrw);
19006: Decompile1', 'TMenuItem', iptrw);
19007: StepIntol', 'TMenuItem', iptrw);
19008: StepOut1', 'TMenuItem', iptrw);
19009: Reset1', 'TMenuItem', iptrw);
19010: DebugRun1', 'TMenuItem', iptrw);
19011: PSImport_CoObj1', 'TPSImport_ComObj', iptrw);
19012: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
19013: PSImport_Forms1', 'TPSImport_Forms', iptrw);
19014: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
19015: tutorial4', 'TMenuItem', iptrw);
19016: ExporttoClipboard1', 'TMenuItem', iptrw);
19017: ImportfromClipboard1', 'TMenuItem', iptrw);
19018: N4', 'TMenuItem', iptrw);
19019: N5', 'TMenuItem', iptrw);
19020: N6', 'TMenuItem', iptrw);
19021: ImportfromClipboard2', 'TMenuItem', iptrw);
19022: tutorial11', 'TMenuItem', iptrw);
19023: N7', 'TMenuItem', iptrw);
19024: ShowSpecChar1', 'TMenuItem', iptrw);
19025: OpenDirectory1', 'TMenuItem', iptrw);
19026: procMess', 'TMenuItem', iptrw);
19027: btnUseCase', 'TToolButton', iptrw);
19028: ToolButton7', 'TToolbutton', iptrw);
19029: EditFont1', 'TMenuItem', iptrw);
19030: UseCase1', 'TMenuItem', iptrw);
19031: tutorial21', 'TMenuItem', iptrw);
19032: OpenUseCase1', 'TMenuItem', iptrw);
19033: PSImport_DB1', 'TPSImport_DB', iptrw);
19034: tutorial31', 'TMenuItem', iptrw);
19035: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
19036: HTMLSyntax1', 'TMenuItem', iptrw);
19037: ShowInterfaces1', 'TMenuItem', iptrw);
19038: Tutorials5', 'TMenuItem', iptrw);
19039: AllFunctionsList1', 'TMenuItem', iptrw);
19040: ShowLastException1', 'TMenuItem', iptrw);
19041: PlayMP31', 'TMenuItem', iptrw);
19042: SynTeXSyn1', 'TSynTeXSyn', iptrw);
19043: texSyntax1', 'TMenuItem', iptrw);
19044: N8', 'TMenuItem', iptrw);
19045: GetEMails1', 'TMenuItem', iptrw);
19046: SynCppSyn1', 'TSynCppSyn', iptrw);
19047: CSyntax1', 'TMenuItem', iptrw);
19048: Tutorial6', 'TMenuItem', iptrw);
19049: New1', 'TMenuItem', iptrw);
19050: AllObjectsList1', 'TMenuItem', iptrw);
19051: LoadBytecode1', 'TMenuItem', iptrw);
19052: CipherFile1', 'TMenuItem', iptrw);
19053: N9', 'TMenuItem', iptrw);
19054: N10', 'TMenuItem', iptrw);
19055: Tutorial11', 'TMenuItem', iptrw);
19056: Tutorial71', 'TMenuItem', iptrw);
19057: UpdateService1', 'TMenuItem', iptrw);
19058: PascalSchool1', 'TMenuItem', iptrw);
19059: Tutorial81', 'TMenuItem', iptrw);
19060: DelphiSite1', 'TMenuItem', iptrw);
19061: Output1', 'TMenuItem', iptrw);
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19062: TerminalStyle1', 'TMenuItem', iptrw);
19063: ReadOnly1', 'TMenuItem', iptrw);
19064: ShellStyle1', 'TMenuItem', iptrw);
19065: BigScreen1', 'TMenuItem', iptrw);
19066: Tutorial91', 'TMenuItem', iptrw);
19067: SaveOutput2', 'TMenuItem', iptrw);
19068: N11', 'TMenuItem', iptrw);
19069: SaveScreenshot', 'TMenuItem', iptrw);
19070: Tutorial101', 'TMenuItem', iptrw);
19071: SQLSyntax1', 'TMenuItem', iptrw);
19072: SynSQLSyn1', 'TSynSQLSyn', iptrw);
19073: Console1', 'TMenuItem', iptrw);
19074: SynXMLSyn1', 'TSynXMLSyn', iptrw);
19075: XMLSyntax1', 'TMenuItem', iptrw);
19076: ComponentCount1', 'TMenuItem', iptrw);
19077: NewInstance1', 'TMenuItem', iptrw);
19078: toolbtnTutorial', 'TToolButton', iptrw);
19079: Memory1', 'TMenuItem', iptrw);
19080: SynJavaSyn1', 'TSynJavaSyn', iptrw);
19081: JavaSyntax1', 'TMenuItem', iptrw);
19082: SyntaxCheck1', 'TMenuItem', iptrw);
19083: Tutorial10Statistics1', 'TMenuItem', iptrw);
19084: ScriptExplorer1', 'TMenuItem', iptrw);
19085: FormOutput1', 'TMenuItem', iptrw);
19086: ArduinoDump1', 'TMenuItem', iptrw);
19087: AndroidDump1', 'TMenuItem', iptrw);
19088: GotoEnd1', 'TMenuItem', iptrw);
19089: AllResourceList1', 'TMenuItem', iptrw);
19090: ToolButton4', 'TToolbutton', iptrw);
19091: tbtn6res', 'TToolButton', iptrw);
19092: Tutorial11Forms1', 'TMenuItem', iptrw);
19093: Tutorial12SQL1', 'TMenuItem', iptrw);
19094: ResourceExplore1', 'TMenuItem', iptrw);
19095: Info1', 'TMenuItem', iptrw);
19096: N12', 'TMenuItem', iptrw);
19097: CryptoBox1', 'TMenuItem', iptrw);
19098: Tutorial13Ciphering1', 'TMenuItem', iptrw);
19099: CipherFile2', 'TMenuItem', iptrw);
19100: N13', 'TMenuItem', iptrw);
19101: ModulesCount1', 'TMenuItem', iptrw);
19102: AddOns2', 'TMenuItem', iptrw);
19103: N4GewinntGame1', 'TMenuItem', iptrw);
19104: DocuforAddOns1', 'TMenuItem', iptrw);
19105: Tutorial14Async1', 'TMenuItem', iptrw);
19106: Lessons15Review1', 'TMenuItem', iptrw);
19107: SynPHPSyn1', 'TSynPHPSyn', iptrw);
19108: PHPSyntax1', 'TMenuItem', iptrw);
19109: Breakpoint1', 'TMenuItem', iptrw);
19110: SerialRS2321', 'TMenuItem', iptrw);
19111: N14', 'TMenuItem', iptrw);
19112: SynCSSyn1', 'TSynCSSyn', iptrw);
19113: CSyntax2', 'TMenuItem', iptrw);
19114: Calculator1', 'TMenuItem', iptrw);
19115: tbtnSerial', 'TToolButton', iptrw);
19116: ToolButton8', 'TToolButton', iptrw);
19117: Tutorial151', 'TMenuItem', iptrw);
19118: N15', 'TMenuItem', iptrw);
19119: N16', 'TMenuItem', iptrw);
19120: ControlBar1', 'TControlBar', iptrw);
19121: ToolBar2', 'TToolBar', iptrw);
19122: BtnOpen', 'TToolButton', iptrw);
19123: BtnSave', 'TToolButton', iptrw);
19124: BtnPrint', 'TToolButton', iptrw);
19125: BtnColors', 'TToolButton', iptrw);
19126: btnClassReport', 'TToolButton', iptrw);
19127: BtnRotateRight', 'TToolButton', iptrw);
19128: BtnFullScreen', 'TToolButton', iptrw);
19129: BtnFitToWindowSize', 'TToolButton', iptrw);
19130: BtnZoomMinus', 'TToolButton', iptrw);
19131: BtnZoomPlus', 'TToolButton', iptrw);
19132: Panel1', 'TPanel', iptrw);
19133: LabelBrettgroesse', 'TLabel', iptrw);
19134: CB1SCLList', 'TComboBox', iptrw);
19135: ImageListNormal', 'TImageList', iptrw);
19136: spbtnexpose', 'TSpeedButton', iptrw);
19137: spbtnexample', 'TSpeedButton', iptrw);
19138: spbsaveas', 'TSpeedButton', iptrw);
19139: imglogobox', 'TImage', iptrw);
19140: EnlargeFont1', 'TMenuItem', iptrw);
19141: EnlargeFont2', 'TMenuItem', iptrw);
19142: ShrinkFont1', 'TMenuItem', iptrw);
19143: ThreadDemo1', 'TMenuItem', iptrw);
19144: HEXEditor1', 'TMenuItem', iptrw);
19145: HEXView1', 'TMenuItem', iptrw);
19146: HEXInspect1', 'TMenuItem', iptrw);
19147: SynExporterHTML1', 'TSynExporterHTML', iptrw);
19148: ExporttoHTML1', 'TMenuItem', iptrw);
19149: ClassCount1', 'TMenuItem', iptrw);
19150: HTMLOutput1', 'TMenuItem', iptrw);
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19151:     HEXEditor2', 'TMenuItem', iptrw);
19152:     Minesweeper1', 'TMenuItem', iptrw);
19153:     N17', 'TMenuItem', iptrw);
19154:     PicturePuzzle1', 'TMenuItem', iptrw);
19155:     sbvc1help', 'TSpeedButton', iptrw);
19156:     DependencyWalker1', 'TMenuItem', iptrw);
19157:     WebScanner1', 'TMenuItem', iptrw);
19158:     View1', 'TMenuItem', iptrw);
19159:     mnToolbar1', 'TMenuItem', iptrw);
19160:     mnStatusbar2', 'TMenuItem', iptrw);
19161:     mnConsole2', 'TMenuItem', iptrw);
19162:     mnCoolbar2', 'TMenuItem', iptrw);
19163:     mnSplitter2', 'TMenuItem', iptrw);
19164:     WebServer1', 'TMenuItem', iptrw);
19165:     Tutorial17Server1', 'TMenuItem', iptrw);
19166:     Tutorial18Arduino1', 'TMenuItem', iptrw);
19167:     SynPerlSyn1', 'TSynPerlSyn', iptrw);
19168:     PerlSyntax1', 'TMenuItem', iptrw);
19169:     SynPythonSyn1', 'TSynPythonSyn', iptrw);
19170:     PythonSyntax1', 'TMenuItem', iptrw);
19171:     DMathLibrary1', 'TMenuItem', iptrw);
19172:     IntfNavigator1', 'TMenuItem', iptrw);
19173:     EnlargeFontConsole1', 'TMenuItem', iptrw);
19174:     ShrinkFontConsole1', 'TMenuItem', iptrw);
19175:     SetInterfaceList1', 'TMenuItem', iptrw);
19176:     popintfList', 'TPopupMenu', iptrw);
19177:     intfAdd1', 'TMenuItem', iptrw);
19178:     intfDelete1', 'TMenuItem', iptrw);
19179:     intfRefactor1', 'TMenuItem', iptrw);
19180:     Defactor1', 'TMenuItem', iptrw);
19181:     Tutorial19COMArduino1', 'TMenuItem', iptrw);
19182:     Tutorial20Regex', 'TMenuItem', iptrw);
19183:     N18', 'TMenuItem', iptrw);
19184:     ManualE1', 'TMenuItem', iptrw);
19185:     FullTextFinder1', 'TMenuItem', iptrw);
19186:     Move1', 'TMenuItem', iptrw);
19187:     FractalDemol1', 'TMenuItem', iptrw);
19188:     Tutorial21Android1', 'TMenuItem', iptrw);
19189:     Tutorial0Function1', 'TMenuItem', iptrw);
19190:     SimuLogBox1', 'TMenuItem', iptrw);
19191:     OpenExamples1', 'TMenuItem', iptrw);
19192:     SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
19193:     JavaScriptSyntax1', 'TMenuItem', iptrw);
19194:     Halt1', 'TMenuItem', iptrw);
19195:     CodeSearch1', 'TMenuItem', iptrw);
19196:     SynRubySyn1', 'TSynRubySyn', iptrw);
19197:     RubySyntax1', 'TMenuItem', iptrw);
19198:     Undo1', 'TMenuItem', iptrw);
19199:     SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
19200:     LinuxShellScript1', 'TMenuItem', iptrw);
19201:     Rename1', 'TMenuItem', iptrw);
19202:     spdcodesearch', 'TSpeedButton', iptrw);
19203:     Preview1', 'TMenuItem', iptrw);
19204:     Tutorial22Services1', 'TMenuItem', iptrw);
19205:     Tutorial23RealTime1', 'TMenuItem', iptrw);
19206:     Configuration1', 'TMenuItem', iptrw);
19207:     MP3Player1', 'TMenuItem', iptrw);
19208:     DLLSpy1', 'TMenuItem', iptrw);
19209:     SynURIOpener1', 'TSynURIOpener', iptrw);
19210:     SynURISyn1', 'TSynURISyn', iptrw);
19211:     URILinksClicks1', 'TMenuItem', iptrw);
19212:     EditReplace1', 'TMenuItem', iptrw);
19213:     GotoLine1', 'TMenuItem', iptrw);
19214:     ActiveLineColor1', 'TMenuItem', iptrw);
19215:     ConfigFile1', 'TMenuItem', iptrw);
19216:     SortIntlList', 'TMenuItem', iptrw);
19217:     Redo1', 'TMenuItem', iptrw);
19218:     Tutorial24CleanCode1', 'TMenuItem', iptrw);
19219:     Tutorial25Configuration1', 'TMenuItem', iptrw);
19220:     IndentSelection1', 'TMenuItem', iptrw);
19221:     UnindentSection1', 'TMenuItem', iptrw);
19222:     SkyStyle1', 'TMenuItem', iptrw);
19223:     N19', 'TMenuItem', iptrw);
19224:     CountWords1', 'TMenuItem', iptrw);
19225:     imbookmarkimages', 'TImageList', iptrw);
19226:     Bookmark11', 'TMenuItem', iptrw);
19227:     N20', 'TMenuItem', iptrw);
19228:     Bookmark21', 'TMenuItem', iptrw);
19229:     Bookmark31', 'TMenuItem', iptrw);
19230:     Bookmark41', 'TMenuItem', iptrw);
19231:     SynMultiSyn1', 'TSynMultiSyn', iptrw);

19232:
19233: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
19234: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
19235: Procedure PSSScriptCompile( Sender : TPSScript)
19236: Procedure Compile1Click( Sender : TObject)
19237: Procedure PSSScriptExecute( Sender : TPSScript)
19238: Procedure open1Click( Sender : TObject)
19239: Procedure Save2Click( Sender : TObject)

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19240: Procedure Savebefore1Click( Sender : TObject)
19241: Procedure Largefont1Click( Sender : TObject)
19242: Procedure FormActivate( Sender : TObject)
19243: Procedure SBytecode1Click( Sender : TObject)
19244: Procedure FormKeyPress( Sender : TObject; var Key : Char)
19245: Procedure Saveas3Click( Sender : TObject)
19246: Procedure Clear1Click( Sender : TObject)
19247: Procedure Slinenumbers1Click( Sender : TObject)
19248: Procedure About1Click( Sender : TObject)
19249: Procedure Search1Click( Sender : TObject)
19250: Procedure FormCreate( Sender : TObject)
19251: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
19252:                                         var Action : TSynReplaceAction)
19253: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
19254: Procedure WordWrap1Click( Sender : TObject)
19255: Procedure SearchNext1Click( Sender : TObject)
19256: Procedure Replace1Click( Sender : TObject)
19257: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
19258: Procedure ShowInclude1Click( Sender : TObject)
19259: Procedure Printout1Click( Sender : TObject)
19260: Procedure mnuPrintFont1Click( Sender : TObject)
19261: Procedure Include1Click( Sender : TObject)
19262: Procedure FormDestroy( Sender : TObject)
19263: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
19264: Procedure UpdateView1Click( Sender : TObject)
19265: Procedure CodeCompletionList1Click( Sender : TObject)
19266: Procedure SaveOutput1Click( Sender : TObject)
19267: Procedure ExportClipboard1Click( Sender : TObject)
19268: Procedure Close1Click( Sender : TObject)
19269: Procedure ManuallyClick( Sender : TObject)
19270: Procedure LoadLastFile1Click( Sender : TObject)
19271: Procedure Memo1Change( Sender : TObject)
19272: Procedure Decompile1Click( Sender : TObject)
19273: Procedure StepInto1Click( Sender : TObject)
19274: Procedure StepOut1Click( Sender : TObject)
19275: Procedure Reset1Click( Sender : TObject)
19276: Procedure cedebbugAfterExecute( Sender : TPSScript)
19277: Procedure cedebbugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
19278: Procedure cedebbugCompile( Sender : TPSScript)
19279: Procedure cedebbugExecute( Sender : TPSScript)
19280: Procedure cedebbugIdle( Sender : TObject)
19281: Procedure cedebbugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
19282: Procedure Memo1SpecialLineColor(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
19283: Procedure BreakMenuClick( Sender : TObject)
19284: Procedure DebugRun1Click( Sender : TObject)
19285: Procedure tutorial4Click( Sender : TObject)
19286: Procedure ImportfromClipboard1Click( Sender : TObject)
19287: Procedure ImportfromClipboard2Click( Sender : TObject)
19288: Procedure tutorial1Click( Sender : TObject)
19289: Procedure ShowSpecChars1Click( Sender : TObject)
19290: Procedure StatusBar1DblClick( Sender : TObject)
19291: Procedure PSScriptLine( Sender : TObject)
19292: Procedure OpenDirectory1Click( Sender : TObject)
19293: Procedure procMessClick( Sender : TObject)
19294: Procedure tbtnUseCaseClick( Sender : TObject)
19295: Procedure EditFont1Click( Sender : TObject)
19296: Procedure tutorial21Click( Sender : TObject)
19297: Procedure tutorial31Click( Sender : TObject)
19298: Procedure HTMLEntax1Click( Sender : TObject)
19299: Procedure ShowInterfaces1Click( Sender : TObject)
19300: Procedure Tutorial5Click( Sender : TObject)
19301: Procedure ShowLastException1Click( Sender : TObject)
19302: Procedure PlayMP31Click( Sender : TObject)
19303: Procedure AllFunctionsList1Click( Sender : TObject)
19304: Procedure texSyntax1Click( Sender : TObject)
19305: Procedure GetEMails1Click( Sender : TObject)
19306: procedure Delphisite1Click(Sender: TObject);
19307: procedure TerminalStyle1Click(Sender: TObject);
19308: procedure ReadOnly1Click(Sender: TObject);
19309: procedure Shellstyle1Click(Sender: TObject);
19310: procedure Console1Click(Sender: TObject); //3.2
19311: procedure BigScreen1Click(Sender: TObject);
19312: procedure Tutorial91Click(Sender: TObject);
19313: procedure SaveScreenshotClick(Sender: TObject);
19314: procedure Tutorial101Click(Sender: TObject);
19315: procedure SQLSyntax1Click(Sender: TObject);
19316: procedure XMLSyntax1Click(Sender: TObject);
19317: procedure ComponentCount1Click(Sender: TObject);
19318: procedure NewInstance1Click(Sender: TObject);
19319: procedure CSyntax1Click(Sender: TObject);
19320: procedure Tutorial6Click(Sender: TObject);
19321: procedure New1Click(Sender: TObject);
19322: procedure AllObjectsList1Click(Sender: TObject);
19323: procedure LoadBytecode1Click(Sender: TObject);
19324: procedure CipherFile1Click(Sender: TObject); //V3.5
19325: procedure NewInstance1Click(Sender: TObject);
19326: procedure toolbtnTutorialClick(Sender: TObject);
19327: procedure Memory1Click(Sender: TObject);
19328: procedure JavaSyntax1Click(Sender: TObject);

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19329: procedure SyntaxCheck1Click(Sender: TObject);
19330: procedure ScriptExplorer1Click(Sender: TObject);
19331: procedure FormOutput1Click(Sender: TObject); //V3.6
19332: procedure GotoEnd1Click(Sender: TObject);
19333: procedure AllResourceList1Click(Sender: TObject);
19334: procedure tbtn6resClick(Sender: TObject); //V3.7
19335: procedure Info1Click(Sender: TObject);
19336: procedure Tutorial10Statistics1Click(Sender: TObject);
19337: procedure Tutorial11Forms1Click(Sender: TObject);
19338: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
19339: procedure ResourceExplore1Click(Sender: TObject);
19340: procedure Info1Click(Sender: TObject);
19341: procedure CryptoBox1Click(Sender: TObject);
19342: procedure ModulesCount1Click(Sender: TObject);
19343: procedure N4GewinntGame1Click(Sender: TObject);
19344: procedure PHPSyntax1Click(Sender: TObject);
19345: procedure SerialRS2321Click(Sender: TObject);
19346: procedure CSyntax2Click(Sender: TObject);
19347: procedure Calculator1Click(Sender: TObject);
19348: procedure Tutorial13Ciphering1Click(Sender: TObject);
19349: procedure Tutorial14Async1Click(Sender: TObject);
19350: procedure PHPSyntax1Click(Sender: TObject);
19351: procedure BtnZoomPlusClick(Sender: TObject);
19352: procedure BtnZoomMinusClick(Sender: TObject);
19353: procedure btnClassReportClick(Sender: TObject);
19354: procedure ThreadDemo1Click(Sender: TObject);
19355: procedure HEXView1Click(Sender: TObject);
19356: procedure ExporttoHTML1Click(Sender: TObject);
19357: procedure Minesweeper1Click(Sender: TObject);
19358: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
19359: procedure sbvc1helpClick(Sender: TObject);
19360: procedure DependencyWalker1Click(Sender: TObject);
19361: procedure CBLISCListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
19362: procedure WebScanner1Click(Sender: TObject);
19363: procedure mnToolbar1Click(Sender: TObject);
19364: procedure mnStatusbar2Click(Sender: TObject);
19365: procedure mnConsole2Click(Sender: TObject);
19366: procedure mnCoolbar2Click(Sender: TObject);
19367: procedure mnSplitter2Click(Sender: TObject);
19368: procedure WebServer1Click(Sender: TObject);
19369: procedure PerlSyntax1Click(Sender: TObject);
19370: procedure PythonSyntax1Click(Sender: TObject);
19371: procedure DMathLibrary1Click(Sender: TObject);
19372: procedure IntfNavigator1Click(Sender: TObject);
19373: procedure FullTextFinder1Click(Sender: TObject);
19374: function AppName: string;
19375: function ScriptName: string;
19376: function LastName: string;
19377: procedure FractalDemo1Click(Sender: TObject);
19378: procedure SimuLogBox1Click(Sender: TObject);
19379: procedure OpenExamples1Click(Sender: TObject);
19380: procedure Halt1Click(Sender: TObject);
19381: procedure Stop;
19382: procedure CodeSearch1Click(Sender: TObject);
19383: procedure RubySyntax1Click(Sender: TObject);
19384: procedure Undo1Click(Sender: TObject);
19385: procedure LinuxShellScript1Click(Sender: TObject);
19386: procedure WebScannerDirect(urls: string);
19387: procedure WebScanner(urls: string);
19388: procedure LoadInterfaceList2;
19389: procedure DLLSpy1Click(Sender: TObject);
19390: procedure Memo1DblClick(Sender: TObject);
19391: procedure URILinksClicks1Click(Sender: TObject);
19392: procedure GotoLine1Click(Sender: TObject);
19393: procedure ConfigFile1Click(Sender: TObject);
19394: Procedure SortIntlistClick( Sender : TObject)
19395: Procedure RedoClick( Sender : TObject)
19396: Procedure Tutorial24CleanCode1Click( Sender : TObject)
19397: Procedure IndentSelection1Click( Sender : TObject)
19398: Procedure UnindentSection1Click( Sender : TObject)
19399: Procedure SkyStyle1Click( Sender : TObject)
19400: Procedure CountWords1Click( Sender : TObject)
19401: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark)
19402: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
19403: Procedure Bookmark11Click( Sender : TObject)
19404: Procedure Bookmark21Click( Sender : TObject)
19405: Procedure Bookmark31Click( Sender : TObject)
19406: Procedure Bookmark41Click( Sender : TObject)
19407: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operation:TRangeOperation;var Range:Pointer);
19408: 'STATMemoryReport', 'boolean', iptrw);
19409: 'IPPort', 'integer', iptrw);
19410: 'COMPort', 'integer', iptrw);
19411: 'lbintlist', 'TListBox', iptrw);
19412: Function GetStatChange : boolean
19413: Procedure SetStatChange( vstat : boolean)
19414: Function GetActFileName : string
19415: Procedure SetActFileName( vname : string)
19416: Function GetLastFileName : string
19417: Procedure SetLastFileName( vname : string)

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19418: Procedure WebScannerDirect( urls : string )
19419: Procedure LoadInterfaceList2
19420: Function GetStatExecuteShell : boolean
19421: Procedure DoEditorExecuteCommand( EditorCommand : word )
19422: function GetActiveLineColor: TColor
19423: procedure SetActiveLineColor(acolor: TColor)
19424: procedure ScriptListbox1Click(Sender: TObject);
19425: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
19426: procedure EnlargeGutter1Click(Sender: TObject);
19427: procedure Tetris1Click(Sender: TObject);
19428: procedure ToDoList1Click(Sender: TObject);
19429: procedure ProcessList1Click(Sender: TObject);
19430: procedure MetricReport1Click(Sender: TObject);
19431: procedure ProcessList1Click(Sender: TObject);
19432: procedure TCPSockets1Click(Sender: TObject);
19433: procedure ConfigUpdate1Click(Sender: TObject);
19434: procedure ADOWorkbench1Click(Sender: TObject);
19435: procedure SocketServer1Click(Sender: TObject);
19436: procedure FormDemol1Click(Sender: TObject);
19437: procedure Richedit1Click(Sender: TObject);
19438: procedure SimpleBrowser1Click(Sender: TObject);
19439: procedure DOSShell1Click(Sender: TObject);
19440: procedure SynExport1Click(Sender: TObject);
19441: procedure ExporttoRTF1Click(Sender: TObject);
19442: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
19443: procedure SOAPTester1Click(Sender: TObject);
19444: procedure Sniffer1Click(Sender: TObject);
19445: procedure AutoDetectSyntax1Click(Sender: TObject);
19446: procedure FPPlot1Click(Sender: TObject);
19447: procedure PasStyle1Click(Sender: TObject);
19448: procedure Tutorial183RGBLED1Click(Sender: TObject);
19449: procedure Reversi1Click(Sender: TObject);
19450: procedure ManualmaxBox1Click(Sender: TObject);
19451: procedure BlaisePascalMagazine1Click(Sender: TObject);
19452: procedure AddToDolClick(Sender: TObject);
19453: procedure CreateGUID1Click(Sender: TObject);
19454: procedure Tutorial27XML1Click(Sender: TObject);
19455: procedure CreateDLLStub1Click(Sender: TObject);
19456: procedure Tutorial28DLL1Click(Sender: TObject);');
19457: procedure ResetKeyPressed;');
19458: procedure FileChanges1Click(Sender: TObject);');
19459: procedure OpenGLTry1Click(Sender: TObject);');
19460: procedure AllUnitList1Click(Sender: TObject);');
19461: procedure Tutorial29UMLClick(Sender: TObject);
19462: procedure CreateHeader1Click(Sender: TObject);
19463:
19464: //-----
19465: //*****mX4 Editor SynEdit Tools API *****
19466: //-----
19467: procedure SIRegister_TCustomSynEdit(CL: TPPSPascalCompiler);
19468: begin
19469: //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
19470: with FindClass('TCustomControl','TCustomSynEdit') do begin
19471: Constructor Create(AOwner : TComponent)
19472: SelStart', 'Integer', iptrw);
19473: SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
19474: Procedure UpdateCaret
19475: Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19476: Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19477: Procedure BeginUndoBlock
19478: Procedure BeginUpdate
19479: Function CaretInView : Boolean
19480: Function CharIndexToRowCol( Index : integer ) : TBufferCoord
19481: Procedure Clear
19482: Procedure ClearAll
19483: Procedure ClearBookMark( BookMark : Integer )
19484: Procedure ClearSelection
19485: Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
19486: Procedure ClearUndo
19487: Procedure CopyToClipboard
19488: Procedure CutToClipboard
19489: Procedure DoCopyToClipboard( const SText : string )
19490: Procedure EndUndoBlock
19491: Procedure EndUpdate
19492: Procedure EnsureCursorPosVisible
19493: Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
19494: Procedure FindMatchingBracket
19495: Function GetMatchingBracket : TBufferCoord
19496: Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
19497: Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
19498: Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
19499: Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attris : TSynHighlighterAttributes ) : boolean
19500: Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string; var TokenType, Start : Integer; var Attris:TSynHighlighterAttributes):boolean
19503: Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
19504: Function GetWordAtRowCol( const XY : TBufferCoord ) : string
19505: Procedure GotoBookMark( BookMark : Integer )
19506: Procedure GotoLineAndCenter( ALine : Integer )

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19507: Function IdentChars : TSynIdentChars
19508: Procedure InvalidateGutter
19509: Procedure InvalidateGutterLine( aLine : integer)
19510: Procedure InvalidateGutterLines( FirstLine, LastLine : integer)
19511: Procedure InvalidateLine( Line : integer)
19512: Procedure InvalidateLines( FirstLine, LastLine : integer)
19513: Procedure InvalidateSelection
19514: Function IsBookmark( BookMark : integer) : boolean
19515: Function IsPointInSelection( const Value : TBufferCoord) : boolean
19516: Procedure LockUndo
19517: Function BufferToDisplayPos( const p : TBufferCoord) : TDisplayCoord
19518: Function DisplayToBufferPos( const p : TDisplayCoord) : TBufferCoord
19519: Function LineToRow( aLine : integer) : integer
19520: Function RowToLine( aRow : integer) : integer
19521: Function NextWordPos : TBufferCoord
19522: Function NextWordPosEx( const XY : TBufferCoord) : TBufferCoord
19523: Procedure PasteFromClipboard
19524: Function WordStart : TBufferCoord
19525: Function WordStartEx( const XY : TBufferCoord) : TBufferCoord
19526: Function WordEnd : TBufferCoord
19527: Function WordEndEx( const XY : TBufferCoord) : TBufferCoord
19528: Function PrevWordPos : TBufferCoord
19529: Function PrevWordPosEx( const XY : TBufferCoord) : TBufferCoord
19530: Function PixelsToRowColumn( aX, aY : integer) : TDisplayCoord
19531: Function PixelsToNearestRowColumn( aX, aY : integer) : TDisplayCoord
19532: Procedure Redo
19533: Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer));
19534: Function RowColumnToPixels( const RowCol : TDisplayCoord) : TPoint
19535: Function RowColToCharIndex( RowCol : TBufferCoord) : integer
19536: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
19537: Procedure SelectAll
19538: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer)
19539: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord)
19540: Procedure SetDefaultKeystrokes
19541: Procedure SetSelWord
19542: Procedure SetWordBlock( Value : TBufferCoord)
19543: Procedure Undo
19544: Procedure UnlockUndo
19545: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent)
19546: Procedure AddKeyUpHandler( aHandler : TKeyEvent)
19547: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent)
19548: Procedure AddKeyDownHandler( aHandler : TKeyEvent)
19549: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent)
19550: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent)
19551: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent)
19552: Procedure AddFocusControl( aControl : TWinControl)
19553: Procedure RemoveFocusControl( aControl : TWinControl)
19554: Procedure AddMouseDownHandler( aHandler : TMouseEvent)
19555: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent)
19556: Procedure AddMouseUpHandler( aHandler : TMouseEvent)
19557: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent)
19558: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent)
19559: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent)
19560: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit)
19561: Procedure RemoveLinesPointer
19562: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList)
19563: Procedure UnHookTextBuffer
19564: BlockBegin', 'TBufferCoord', iptrw);
19565: BlockEnd', 'TBufferCoord', iptrw);
19566: CanPaste', 'Boolean', iptr);
19567: CanRedo', 'boolean', iptr);
19568: CanUndo', 'boolean', iptr);
19569: CaretX', 'Integer', iptrw);
19570: CaretY', 'Integer', iptrw);
19571: CaretXY', 'TBufferCoord', iptrw);
19572: ActiveLineColor', 'TColor', iptrw);
19573: DisplayX', 'Integer', iptr);
19574: DisplayY', 'Integer', iptr);
19575: DisplayXY', 'TDisplayCoord', iptr);
19576: DisplayLineCount', 'integer', iptr);
19577: CharsInWindow', 'Integer', iptr);
19578: CharWidth', 'integer', iptr);
19579: Font', 'TFont', iptrw);
19580: GutterWidth', 'Integer', iptr);
19581: Highlighter', 'TSynCustomHighlighter', iptrw);
19582: LeftChar', 'Integer', iptrw);
19583: LineHeight', 'integer', iptr);
19584: LinesInWindow', 'Integer', iptr);
19585: LineText', 'string', iptrw);
19586: Lines', 'TStrings', iptrw);
19587: Marks', 'TSynEditMarkList', iptr);
19588: MaxScrollWidth', 'integer', iptrw);
19589: Modified', 'Boolean', iptrw);
19590: PaintLock', 'Integer', iptr);
19591: ReadOnly', 'Boolean', iptrw);
19592: SearchEngine', 'TSynEditSearchCustom', iptrw);
19593: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
19594: SelTabBlock', 'Boolean', iptr);
19595: SelTabLine', 'Boolean', iptr);

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19596:     SelText', 'string', iptrw);
19597:     StateFlags', 'TSynStateFlags', iptr);
19598:     Text', 'string', iptrw);
19599:     TopLine', 'Integer', iptrw);
19600:     WordAtCursor', 'string', iptr);
19601:     WordAtMouse', 'string', iptr);
19602:     UndoList', 'TSynEditUndoList', iptr);
19603:     RedoList', 'TSynEditUndoList', iptr);
19604:     OnProcessCommandEvent', 'TProcessCommandEvent', iptrw);
19605:     BookMarkOptions', 'TSynBookMarkOpt', iptrw);
19606:     BorderStyle', 'TSynBorderStyle', iptrw);
19607:     ExtraLineSpacing', 'integer', iptrw);
19608:     Gutter', 'TSynGutter', iptrw);
19609:     HideSelection', 'boolean', iptrw);
19610:     InsertCaret', 'TSynEditCaretType', iptrw);
19611:     InsertMode', 'boolean', iptrw);
19612:     IsScrolling', 'Boolean', iptr);
19613:     Keystrokes', 'TSynEditKeyStrokes', iptrw);
19614:     MaxUndo', 'Integer', iptrw);
19615:     Options', 'TSynEditorOptions', iptrw);
19616:     OverwriteCaret', 'TSynEditCaretType', iptrw);
19617:     RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
19618:     ScrollHintColor', 'TColor', iptrw);
19619:     ScrollHintFormat', 'TScrollHintFormat', iptrw);
19620:     ScrollBars', 'TScrollStyle', iptrw);
19621:     SelectedColor', 'TSynSelectedColor', iptrw);
19622:     SelectionMode', 'TSynSelectionMode', iptrw);
19623:     ActiveSelectionMode', 'TSynSelectionMode', iptrw);
19624:     TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
19625:     WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
19626:     WordWrapGlyph', 'TSynGlyph', iptrw);
19627:     OnChange', 'TNotifyEvent', iptrw);
19628:     OnClearBookmark', 'TPlaceMarkEvent', iptrw);
19629:     OnCommandProcessed', 'TProcessCommandEvent', iptrw);
19630:     OnContextHelp', 'TContextHelpEvent', iptrw);
19631:     OnDropFiles', 'TDropFilesEvent', iptrw);
19632:     OnGutterClick', 'TGutterClickEvent', iptrw);
19633:     OnGutterGetText', 'TGutterGetTextEvent', iptrw);
19634:     OnGutterPaint', 'TGutterPaintEvent', iptrw);
19635:     OnMouseCursor', 'TMouseCursorEvent', iptrw);
19636:     OnPaint', 'TPaintEvent', iptrw);
19637:     OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
19638:     OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
19639:     OnReplaceText', 'TReplaceTextEvent', iptrw);
19640:     OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
19641:     OnStatusChange', 'TStatusChangeEvent', iptrw);
19642:     OnPaintTransient', 'TPaintTransient', iptrw);
19643:     OnScroll', 'TScrollEvent', iptrw);
19644:   end;
19645:   Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
19646:   Function GetPlaceableHighlighters : TSynHighlighterList
19647:   Function EditorCommandToDescrString( Cmd : TSynEditorCommand ) : string
19648:   Function EditorCommandToCodeString( Cmd : TSynEditorCommand ) : string
19649:   Procedure GetEditorCommandValues( Proc : TGetStrProc )
19650:   Procedure GetEditorCommandExtended( Proc : TGetStrProc )
19651:   Function IdentToEditorCommand( const Ident : string; var Cmd : longint ) : boolean
19652:   Function EditorCommandToIdent( Cmd : longint; var Ident : string ) : boolean
19653:   Function ConvertCodeStringToExtended( AString : String ) : String
19654:   Function ConvertExtendedToCodeString( AString : String ) : String
19655:   Function ConvertExtendedToCommand( AString : String ) : TSynEditorCommand
19656:   Function ConvertCodeStringToCommand( AString : String ) : TSynEditorCommand
19657:   Function IndexToEditorCommand( const AIndex : Integer ) : Integer
19658:
19659:   TSynEditorOption = (
19660:     eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
19661:     eoAutoIndent,                 //Will indent caret on newlines with same amount of leading whitespace as
19662:                               //preceding line
19663:     eoAutoSizeMaxScrollWidth,     //Automatically resizes the MaxScrollWidth property when inserting text
19664:     eoDisableScrollArrows,        //Disables the scroll bar arrow buttons when you can't scroll in that
19665:                               //direction any more
19666:     eoDragDropEditing,           //Allows to select a block of text and drag it within document to another
19667:                               //location
19668:     eoDropFiles,                  //Allows the editor accept OLE file drops
19669:     eoEnhanceHomeKey,            //enhances home key positioning, similar to visual studio
19670:     eoEnhanceEndKey,             //enhances End key positioning, similar to JDeveloper
19671:     eoGroupUndo,                  //When undoing/redoing actions, handle all continous changes the same kind
19672:                               //in one call
19673:                               //instead undoing/redoing each command separately
19674:     eoHalfPageScroll,             //When scrolling with page-up and page-down commands, only scroll a half
19675:                               //page at a time
19676:     eoHideShowScrollbars,         //if enabled, then scrollbars will only show if necessary.
19677:     If you have ScrollPasteEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
19678:     eoKeepCaretX,                //When moving through lines w/o cursor Past EOL, keeps X position of cursor
19679:     eoNoCaret,                   //Makes it so the caret is never visible
19680:     eoNoSelection,               //Disables selecting text
19681:     eoRightMouseMovesCursor,     //When clicking with right mouse for popup menu, moves cursor to location
19682:     eoscrollByOneLess,           //Forces scrolling to be one less
19683:     eoscrollHintFollows,         //The scroll hint follows the mouse when scrolling vertically
19684:     eoscrollPastEOF,             //Allows the cursor to go past the end of file marker

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19685: eoScrollPastEol,           //Allows cursor to go past last character into white space at end of a line
19686: eoShowScrollHint,         //Shows a hint of the visible line numbers when scrolling vertically
19687: eoShowSpecialChars,      //Shows the special Characters
19688: eoSmartTabDelete,        //similar to Smart Tabs, but when you delete characters
19689: eoSmartTabs,             //When tabbing, cursor will go to non-white space character of previous line
19690: eoSpecialLineDefaultFg,   //disables the foreground text color override using OnSpecialLineColor event
19691: eoTabIndent,              //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
19692: eoTabsToSpaces,           //Converts a tab character to a specified number of space characters
19693: eoTrimTrailingSpaces,    //Spaces at the end of lines will be trimmed and not saved
19694:
19695: *****Important Editor Short Cuts*****);
19696: Double click to select a word and count words with highlighting.
19697: Triple click to select a line.
19698: CTRL+SHIFT+click to extend a selection.
19699: Drag with the ALT key down to select columns of text !!!
19700: Drag and drop is supported.
19701: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
19702: Type CTRL+A to select all.
19703: Type CTRL+N to set a new line.
19704: Type CTRL+T to delete a line or token. //Tokenizer
19705: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
19706: Type CTRL+Shift+T to add ToDo in line and list.
19707: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
19708: Type CTRL[0..9] to jump or get to bookmarks.
19709: Type Home to position cursor at beginning of current line and End to position it at end of line.
19710: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
19711: Page Up and Page Down work as expected.
19712: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
19713: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
19714:
19715: {${ Short Key Positions Ctrl<A-Z>: }
19716: def
19717:   <A> Select All
19718:   <B> Count Words
19719:   <C> Copy
19720:   <D> Internet Start
19721:   <E> Script List
19722:   <F> Find
19723:   <G> Goto
19724:   <H> Mark Line
19725:   <I> Interface List
19726:   <J> Code Completion
19727:   <K> Console
19728:   <L> Interface List Box
19729:   <M> Font Larger -
19730:   <N> New Line
19731:   <O> Open File
19732:   <P> Font Smaller +
19733:   <Q> Quit
19734:   <R> Replace
19735:   <S> Save!
19736:   <T> Delete Line
19737:   <U> Use Case Editor
19738:   <V> Paste
19739:   <W> URI Links
19740:   <X> Reserved for coding use internal
19741:   <Y> Delete Line
19742:   <Z> Undo
19743:
19744: ref
19745:   F1 Help
19746:   F2 Syntax Check
19747:   F3 Search Next
19748:   F4 New Instance
19749:   F5 Line Mark /Breakpoint
19750:   F6 Goto End
19751:   F7 Debug Step Into
19752:   F8 Debug Step Out
19753:   F9 Compile
19754:   F10 Menu
19755:   F11 Word Count Highlight
19756:   F12 Reserved for coding use internal
19757:
19758: def ReservedWords: array[0..82] of string =
19759:   ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
19760:    'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',
19761:    'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
19762:    'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
19763:    'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
19764:    'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
19765:    'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
19766:    'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
19767:    'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
19768:    'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
19769:    'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
19770:   AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ',', ',');
19771:
19772: //-----
19773: //*****End of mx4 Public Tools API *****

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19774: //-----
19775:
19776: Amount of Functions: 12527
19777: Amount of Procedures: 7767
19778: Amount of Constructors: 1264
19779: Totals of Calls: 21558
19780: SHA1: Win 3.9.9.95 A8BE7AD5B70ECAF9797C5C9E42A3CD40E903145F
19781:
19782: **** Doc Short Manual with 50 Tips!
19783: ****
19784: ****
19785: - Install: just save your maxboxdef.ini before and then extract the zip file!
19786: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
19787: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
19788: - Menu: With <Ctrl><F3> you can search for code on examples
19789: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
19790: - Menu: Set Interface Naviagator in menu /View/Intf Navigator
19791: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
19792:
19793: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
19794: - Inifile: Refresh (reload) the inifile after edit with ..../Help/Config Update
19795: - Context Menu: You can printout your scripts as a pdf-file or html-export
19796: - Context: You do have a context menu with the right mouse click
19797:
19798: - Menu: With the UseCase Editor you can convert graphic formats too.
19799: - Menu: On menu Options you find Addons as compiled scripts
19800: - IDE: You don't need a mouse to handle maxbox, use shortcuts
19801: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
19802: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
19803: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
19804:     or ttimer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
19805:
19806: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
19807: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
19808: - Code: If you code a loop till key-pressed use function: isKeyPressed;
19809: - Code: Macro set the macros #name, #paAdministrator, #file,startmaxbox_extract_funcList399.txt
19810: - Code: change Syntax in autboot macro 'maxbootscript.txt'
19811: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
19812:     to delete and Click and mark to drag a bookmark
19813: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
19814: - IDE: A file info with system and script information you find in menu Program/Information
19815: - IDE: After change the config file in help you can update changes in menu Help/Config Update
19816: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
19817: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
19818: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
19819: - Editor: Set Bookmarks to check your work in app or code
19820: - Editor: With <Ctrl H> you set $Active Line Color and F11 you get Word Count Statistic on Output too
19821: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..../Help/ToDo List
19822: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
19823:
19824: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
19825: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
19826: - Menu: Set Interface Naviagator also with toogle <Ctrl L> or /View/Intf Navigator
19827: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
19828: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
19829: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available:
19830: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
19831: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
19832:
19833: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
19834: - Add on when no browser is available start /Options/Add ons/Easy Browser
19835: - Add on SOAP Tester with SOP POST File
19836: - Add on IP Protocol Sniffer with List View
19837: - Add on OpenGL mX Robot Demo for android
19838:
19839: - Menu: Help/Tools as a Tool Section with DOS Opener
19840: - Menu Editor: export the code as RTF File
19841: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
19842: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
19843: - Context: Auto Detect of Syntax depending on file extension
19844: - Code: some Windows API function start with w in the name like wGetAtomName();
19845: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
19846: - IDE File Check with menu ..View/File Changes/...
19847:
19848: - using DLL example in maxbox: //function: {*****}
19849:     Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
19850:                                     cb: DWORD): BOOL; //stdcall;
19851:     External 'GetProcessMemoryInfo@psapi.dll stdcall';
19852:     Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
19853:     External 'OpenProcess@kernel32.dll stdcall';
19854:
19855:
19856: PCT Precompile Technology , mX4 ScriptStudio
19857: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
19858: DMath, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
19859: emax layers: system=package=component=unit=class=function=block
19860: new keywords def ref using maxCalcF
19861: UML: use case act class state seq pac comp dep - lib lab
19862: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools

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19863: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
19864: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
19865: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
19866: 1 DLL Report, 24 Units add, DRTable, Remote+, Cindy functions!
19867: DLL Report, UML Tutor, 32 Units add, DRTable, Remote+, Cindy functions!
19868: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
19869: https://unibe-ch.academia.edu/MaxKleiner
19870: www.slideshare.net/maxkleiner1
19871: http://www.scribd.com/max_kleiner
19872: http://www.delphiforfun.org/Programs/Utilities/index.htm
19873:
19874:
19875:
19876:
19877:
19878: ****
19879: unit List asm internal end
19880: ****
19881: 01 unit RIRegister_StrUtils_Routines(exec); //Delphi
19882: 02 unit SIRegister_IdStrings //Indy Sockets
19883: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
19884: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
19885: 05 unit IFSI_WinForm1puzzle; //maXbox
19886: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
19887: 07 unit RegisterDateTimeLibrary_R(exec); //Delphi
19888: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
19889: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
19890: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
19891: 11 unit uPSI_IdTCPConnection; //Indy some functions
19892: 12 unit uPSCompiler.pas; //PS kernel functions
19893: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
19894: 14 unit uPSI_Printers.pas //Delphi VCL
19895: 15 unit uPSI_MPlayer.pas //Delphi VCL
19896: 16 unit uPSC_comobj; //COM Functions
19897: 17 unit uPSI_Clipbrd; //Delphi VCL
19898: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
19899: 19 unit uPSI_SqlExpr; //DBX3
19900: 20 unit uPSI_ADOdb; //ADODB
19901: 21 unit uPSI_StrHlpr; //String Helper Routines
19902: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
19903: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
19904: 24 unit JvUtils / gsUtils; //Jedi / Metabase
19905: 25 unit JvFunctions_max; //Jedi Functions
19906: 26 unit HTTPParser; //Delphi VCL
19907: 27 unit HTTPUtil; //Delphi VCL
19908: 28 unit uPSI_XMLUtil; //Delphi VCL
19909: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
19910: 30 unit uPSI_Contnrs; //Delphi RTL Container of Classes
19911: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
19912: 32 unit uPSI_MyBigInt; //big integer class with Math
19913: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
19914: 34 unit Types_Variants; //DelphiWin32\rtl\sys
19915: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
19916: 36 unit uPSI_IdHashMessageDigest; //Indy Crypto;
19917: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
19918: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
19919: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
19920: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto &OpenSSL;
19921: 41 unit uPSI_FileCtrl; //Delphi RTL
19922: 42 unit uPSI_Outline; //Delphi VCL
19923: 43 unit uPSI_ScktComp; //Delphi RTL
19924: 44 unit uPSI_Calendar; //Delphi VCL
19925: 45 unit uPSI_VListView; //VListView;
19926: 46 unit uPSI_DBGrids; //Delphi VCL
19927: 47 unit uPSI_DBCtrls; //Delphi VCL
19928: 48 unit ide_debugoutput; //maXbox
19929: 49 unit uPSI_ComCtrls; //Delphi VCL
19930: 50 unit uPSC_stdCtrls+; //Delphi VCL
19931: 51 unit uPSI_Dialogs; //Delphi VCL
19932: 52 unit uPSI_StdConvs; //Delphi RTL
19933: 53 unit uPSI_DBClient; //Delphi RTL
19934: 54 unit uPSI_DBPlatform; //Delphi RTL
19935: 55 unit uPSI_Provider; //Delphi RTL
19936: 56 unit uPSI_FMTBcd; //Delphi RTL
19937: 57 unit uPSI_DBGrids; //Delphi VCL
19938: 58 unit uPSI_CDSUtil; //MIDAS
19939: 59 unit uPSI_VarHlpr; //Delphi RTL
19940: 60 unit uPSI_ExtdLgls; //Delphi VCL
19941: 61 unit sdpStopwatch; //maXbox
19942: 62 unit uPSI_JclStatistics; //JCL
19943: 63 unit uPSI_JclLogic; //JCL
19944: 64 unit uPSI_JclMiscel; //JCL
19945: 65 unit uPSI_JclMath_max; //JCL RTL
19946: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3
19947: 67 unit uPSI_MathUtils; //BCB
19948: 68 unit uPSI_JclMultimedia; //JCL
19949: 69 unit uPSI_WideStrUtils; //Delphi API/RTL
19950: 70 unit uPSI_GraphUtil; //Delphi RTL
19951: 71 unit uPSI_TypeTrans; //Delphi RTL

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19952: 72 unit uPSI_HTTPApp;                                //Delphi VCL
19953: 73 unit uPSI_DBWeb;                                //Delphi VCL
19954: 74 unit uPSI_DBBdeWeb;                             //Delphi VCL
19955: 75 unit uPSI_DBXpressWeb;                           //Delphi VCL
19956: 76 unit uPSI_ShadowWnd;                            //Delphi VCL
19957: 77 unit uPSI_ToolWin;                             //Delphi VCL
19958: 78 unit uPSI_Tabs;                                //Delphi VCL
19959: 79 unit uPSI_JclGraphUtils;                         //JCL
19960: 80 unit uPSI_JclCounter;                            //JCL
19961: 81 unit uPSI_JclSysInfo;                            //JCL
19962: 82 unit uPSI_JclSecurity;                           //JCL
19963: 83 unit uPSI_JclFileUtils;                          //JCL
19964: 84 unit uPSI_IdUserAccounts;                        //Indy
19965: 85 unit uPSI_IdAuthentication;                      //Indy
19966: 86 unit uPSI_uTPLb_AES;                            //LockBox 3
19967: 87 unit uPSI_IdHashSHA1;                            //LockBox 3
19968: 88 unit uTPLb_BlockCipher;                          //LockBox 3
19969: 89 unit uPSI_ValEdit.pas;                           //Delphi VCL
19970: 90 unit uPSI_JvVCLUtils;                            //JCL
19971: 91 unit uPSI_JvDBUtil;                             //JCL
19972: 92 unit uPSI_JvDBUtils;                            //JCL
19973: 93 unit uPSI_JvAppUtils;                           //JCL
19974: 94 unit uPSI_JvCtrlUtils;                           //JCL
19975: 95 unit uPSI_JvFormToHtml;                          //JCL
19976: 96 unit uPSI_JvParsing;                            //JCL
19977: 97 unit uPSI_SerDlg;                               //Toolbox
19978: 98 unit uPSI_Serial;                               //Toolbox
19979: 99 unit uPSI_JvComponent;                          //JCL
19980: 100 unit uPSI_JvCalc;                              //JCL
19981: 101 unit uPSI_JvBdeUtils;                          //JCL
19982: 102 unit uPSI_JvDateUtil;                          //JCL
19983: 103 unit uPSI_JvGenetic;                           //JCL
19984: 104 unit uPSI_JclBase;                            //JCL
19985: 105 unit uPSI_JvUtils;                            //JCL
19986: 106 unit uPSI_JvStrUtil;                           //JCL
19987: 107 unit uPSI_JvStrUtils;                          //JCL
19988: 108 unit uPSI_JvFileUtil;                           //JCL
19989: 109 unit uPSI_JvMemoryInfos;                        //JCL
19990: 110 unit uPSI_JvComputerInfo;                      //JCL
19991: 111 unit uPSI_JvgCommClasses;                      //JCL
19992: 112 unit uPSI_JvgLogics;                           //JCL
19993: 113 unit uPSI_JvLED;                               //JCL
19994: 114 unit uPSI_JvTurtle;                            //JCL
19995: 115 unit uPSI_SortThds; unit uPSI_ThSort;          //maxbox
19996: 116 unit uPSI_JvgUtils;                            //JCL
19997: 117 unit uPSI_JvExprParser;                         //JCL
19998: 118 unit uPSI_HexDump;                            //Borland
19999: 119 unit uPSI_DBLogDlg;                            //VCL
20000: 120 unit uPSI_SqlTimSt;                            //RTL
20001: 121 unit uPSI_JvHTMLParser;                         //JCL
20002: 122 unit uPSI_JvgXMLSerializer;                    //JCL
20003: 123 unit uPSI_JvJCLUtils;                           //JCL
20004: 124 unit uPSI_JvStrings;                            //JCL
20005: 125 unit uPSI_uTPLb_IntegerUtils;                   //TurboPower
20006: 126 unit uPSI_uTPLb_HugeCardinal;                  //TurboPower
20007: 127 unit uPSI_uTPLb_HugeCardinalUtils;              //TurboPower
20008: 128 unit uPSI_SynRegExpr;                           //SynEdit
20009: 129 unit uPSI_StUtils;                            //SysTools4
20010: 130 unit uPSI_StToHTML;                            //SysTools4
20011: 131 unit uPSI_StStrms;                            //SysTools4
20012: 132 unit uPSI_StFIN;                             //SysTools4
20013: 133 unit uPSI_StAstroP;                           //SysTools4
20014: 134 unit uPSI_StStat;                            //SysTools4
20015: 135 unit uPSI_StNetCon;                           //SysTools4
20016: 136 unit uPSI_StDecMth;                           //SysTools4
20017: 137 unit uPSI_StOStr;                            //SysTools4
20018: 138 unit uPSI_StPtrns;                           //SysTools4
20019: 139 unit uPSI_StNetMsg;                           //SysTools4
20020: 140 unit uPSI_StMath;                            //SysTools4
20021: 141 unit uPSI_StExpEng;                           //SysTools4
20022: 142 unit uPSI_StCRC;                            //SysTools4
20023: 143 unit uPSI_StExport;                           //SysTools4
20024: 144 unit uPSI_StExpLog;                           //SysTools4
20025: 145 unit uPSI_ActnList;                           //Delphi VCL
20026: 146 unit uPSI_jpeg;                               //Borland
20027: 147 unit uPSI_StRandom;                           //SysTools4
20028: 148 unit uPSI_StDict;                            //SysTools4
20029: 149 unit uPSI_StBCD;                            //SysTools4
20030: 150 unit uPSI_StTxtDat;                           //SysTools4
20031: 151 unit uPSI_StRegEx;                            //SysTools4
20032: 152 unit uPSI_IMouse;                            //VCL
20033: 153 unit uPSI_SyncObjs;                           //VCL
20034: 154 unit uPSI_AsyncCalls;                          //Hausladen
20035: 155 unit uPSI_ParallelJobs;                        //Saraiva
20036: 156 unit uPSI_Variants;                           //VCL
20037: 157 unit uPSI_VarCmplx;                           //VCL Wolfram
20038: 158 unit uPSI_TDTSchema;                          //VCL
20039: 159 unit uPSI_ShLwApi;                            //Brakel
20040: 160 unit uPSI_IBUtils;                            //VCL

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20041: 161 unit uPSI_CheckLst;                                //VCL
20042: 162 unit uPSI_JvSimpleXml;                            //JCL
20043: 163 unit uPSI_JclSimpleXml;                           //JCL
20044: 164 unit uPSI_JvXmlDatabase;                          //JCL
20045: 165 unit uPSI_JvMaxPixel;                            //JCL
20046: 166 unit uPSI_JvItemsSearchs;                         //JCL
20047: 167 unit uPSI_StExpEng2;                            //SysTools4
20048: 168 unit uPSI_StGenLog;                            //SysTools4
20049: 169 unit uPSI_JvLogFile;                           //Jcl
20050: 170 unit uPSI_CPort;                                //ComPort Lib v4.11
20051: 171 unit uPSI_CPortCtl;                            //ComPort
20052: 172 unit uPSI_CPortEsc;                            //ComPort
20053: 173 unit BarCodeScanner;                           //ComPort
20054: 174 unit uPSI_JvGraph;                            //JCL
20055: 175 unit uPSI_JvComCtrls;                           //JCL
20056: 176 unit uPSI_GUITesting;                          //D Unit
20057: 177 unit uPSI_JvFindFiles;                          //JCL
20058: 178 unit uPSI_StSystem;                            //SysTools4
20059: 179 unit uPSI_JvKeyboardStates;                     //JCL
20060: 180 unit uPSI_JvMail;                             //JCL
20061: 181 unit uPSI_JclConsole;                           //JCL
20062: 182 unit uPSI_JclLANman;                           //JCL
20063: 183 unit uPSI_IdCustomHTTPServer;                   //Indy
20064: 184 unit IdHTTPServer;                            //Indy
20065: 185 unit uPSI_IdTCPServer;                          //Indy
20066: 186 unit uPSI_IdSocketHandle;                      //Indy
20067: 187 unit uPSI_IdIOHandlerSocket;                   //Indy
20068: 188 unit IdIOHandler;                            //Indy
20069: 189 unit uPSI_cutils;                            //Bloodshed
20070: 190 unit uPSI_BoldUtils;                           //boldsoft
20071: 191 unit uPSI_IdSimpleServer;                      //Indy
20072: 192 unit uPSI_IdSSLOpenSSL;                        //Indy
20073: 193 unit uPSI_IdMultipartFormData;                  //Indy
20074: 194 unit uPSI_SynURIOpener;                        //SynEdit
20075: 195 unit uPSI_PerlRegEx;                           //PCRE
20076: 196 unit uPSI_IdHeaderList;                         //Indy
20077: 197 unit uPSI_StFirst;                            //SysTools4
20078: 198 unit uPSI_JvCtrls;                            //JCL
20079: 199 unit uPSI_IdTrivialFTPBase;                    //Indy
20080: 200 unit uPSI_IdTrivialFTP;                         //Indy
20081: 201 unit uPSI_IdUDPBase;                           //Indy
20082: 202 unit uPSI_IdUDPClient;                          //Indy
20083: 203 unit uPSI_utypes;                            //for DMath.DLL
20084: 204 unit uPSI_ShellAPI;                           //Borland
20085: 205 unit uPSI_IdRemoteCMDClient;                   //Indy
20086: 206 unit uPSI_IdRemoteCMDServer;                   //Indy
20087: 207 unit IdRexecServer;                           //Indy
20088: 208 unit IdRexec; (unit uPSI_IdRexec;)           //Indy
20089: 209 unit IdUDPServer;                            //Indy
20090: 210 unit IdTimeUDPServer;                          //Indy
20091: 211 unit IdTimeServer;                           //Indy
20092: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;)       //Indy
20093: 213 unit uPSI_IdIPWatch;                           //Indy
20094: 214 unit uPSI_IdIrcServer;                          //Indy
20095: 215 unit uPSI_IdMessageCollection;                 //Indy
20096: 216 unit uPSI_cPEM;                               //Fundamentals 4
20097: 217 unit uPSI_cFundamentUtils;                     //Fundamentals 4
20098: 218 unit uPSI_uwinplot;                           //DMath
20099: 219 unit uPSI_xrtl_util_CPUUtils;                  //ExtentedRTL
20100: 220 unit uPSI_GR32_System;                         //Graphics32
20101: 221 unit uPSI_cFileUtils;                          //Fundamentals 4
20102: 222 unit uPSI_cDateTime; (timemachine)            //Fundamentals 4
20103: 223 unit uPSI_cTimers; (high precision timer)     //Fundamentals 4
20104: 224 unit uPSI_cRandom;                            //Fundamentals 4
20105: 225 unit uPSI_ueval;                            //DMath
20106: 226 unit uPSI_xrtl_net_URIUtils;                  //ExtendedRTL
20107: 227 unit xrtl_net_URUUtils;                      //ExtendedRTL
20108: 228 unit uPSI_uftt; (FFT)                         //DMath
20109: 229 unit uPSI_DBXChannel;                          //Delphi
20110: 230 unit uPSI_DBXIndyChannel;                     //Delphi Indy
20111: 231 unit uPSI_xrtl_util_COMCat;                   //ExtendedRTL
20112: 232 unit uPSI_xrtl_util_StrUtils;                 //ExtendedRTL
20113: 233 unit uPSI_xrtl_util_VariantUtils;             //ExtendedRTL
20114: 234 unit uPSI_xrtl_util_FileUtils;                //ExtendedRTL
20115: 235 unit xrtl_util_Compat;                       //ExtendedRTL
20116: 236 unit uPSI_OleAuto;                            //Borland
20117: 237 unit uPSI_xrtl_util_COMUtils;                 //ExtendedRTL
20118: 238 unit uPSI_CmAdmCtl;                           //Borland
20119: 239 unit uPSI_ValEdit2;                           //VCL
20120: 240 unit uPSI_GR32; //Graphics32                //Graphics32
20121: 241 unit uPSI_GR32_Image;                          //Graphics32
20122: 242 unit uPSI_xrtl_util_TimeUtils;                 //ExtendedRTL
20123: 243 unit uPSI_xrtl_util_TimeZone;                  //ExtendedRTL
20124: 244 unit uPSI_xrtl_util_TimeStamp;                 //ExtendedRTL
20125: 245 unit uPSI_xrtl_util_Map;                      //ExtendedRTL
20126: 246 unit uPSI_xrtl_util_Set;                      //ExtendedRTL
20127: 247 unit uPSI_CPortMonitor;                        //ComPort
20128: 248 unit uPSI_StIniStm;                           //SysTools4
20129: 249 unit uPSI_GR32_ExtImage;                      //Graphics32

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20130: 250 unit uPSI_GR32_OrdinalMaps; //Graphics32
20131: 251 unit uPSI_GR32_Rasterizers; //Graphics32
20132: 252 unit uPSI_xrtl_util_Exception; //ExtendedRTL
20133: 253 unit uPSI_xrtl_util_Value; //ExtendedRTL
20134: 254 unit uPSI_xrtl_util_Compare; //ExtendedRTL
20135: 255 unit uPSI_FlatSB; //VCL
20136: 256 unit uPSI_JvAnalogClock; //JCL
20137: 257 unit uPSI_JvAlarms; //JCL
20138: 258 unit uPSI_JvSQLS; //JCL
20139: 259 unit uPSI_JvDBSecur; //JCL
20140: 260 unit uPSI_JvDBQBE; //JCL
20141: 261 unit uPSI_JvStarfield; //JCL
20142: 262 unit uPSI_JVCLMiscal; //JCL
20143: 263 unit uPSI_JvProfiler32; //JCL
20144: 264 unit uPSI_JvDirectories; //JCL
20145: 265 unit uPSI_JclSchedule; //JCL
20146: 266 unit uPSI_JclSvcCtrl; //JCL
20147: 267 unit uPSI_JvSoundControl; //JCL
20148: 268 unit uPSI_JvBDESQLScript; //JCL
20149: 269 unit uPSI_JvgDigits; //JCL>
20150: 270 unit uPSI_ImgList; //TCustomImageList
20151: 271 unit uPSI_JclMIDI; //JCL>
20152: 272 unit uPSI_JclWinMidi; //JCL>
20153: 273 unit uPSI_JclNTFS; //JCL>
20154: 274 unit uPSI_JclAppInst; //JCL>
20155: 275 unit uPSI_JvRle; //JCL>
20156: 276 unit uPSI_JvRas32; //JCL>
20157: 277 unit uPSI_JvImageDrawThread; //JCL>
20158: 278 unit uPSI_JvImageWindow; //JCL>
20159: 279 unit uPSI_JvTransparentForm; //JCL>
20160: 280 unit uPSI_JvWinDialogs; //JCL>
20161: 281 unit uPSI_JvSimLogic; //JCL>
20162: 282 unit uPSI_JvSimIndicator; //JCL>
20163: 283 unit uPSI_JvSimPID; //JCL>
20164: 284 unit uPSI_JvSimPIDLinker; //Indy
20165: 285 unit uPSI_IdRFCReply; //Indy
20166: 286 unit uPSI_IdIdent; //Indy
20167: 287 unit uPSI_IdIdentServer; //Indy
20168: 288 unit uPSI_JvPatchFile; //JCL
20169: 289 unit uPSI_StNetPfm; //SysTools4
20170: 290 unit uPSI_StNet; //SysTools4
20171: 291 unit uPSI_JclPeImage; //JCL
20172: 292 unit uPSI_JclPrint; //JCL
20173: 293 unit uPSI_JclMime; //JCL
20174: 294 unit uPSI_JvRichEdit; //JCL
20175: 295 unit uPSI_JvDBRichEd; //JCL
20176: 296 unit uPSI_JvDice; //JCL
20177: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
20178: 298 unit uPSI_JvDirFrm; //JCL
20179: 299 unit uPSI_JvDualList; //JCL
20180: 300 unit uPSI_JvSwitch; //JCL
20181: 301 unit uPSI_JvTimerLst; //JCL
20182: 302 unit uPSI_JvMemTable; //JCL
20183: 303 unit uPSI_JvObjStr; //JCL
20184: 304 unit uPSI_STLArr; //SysTools4
20185: 305 unit uPSI_StWmDCpy; //SysTools4
20186: 306 unit uPSI_StText; //SysTools4
20187: 307 unit uPSI_StNTLog; //SysTools4
20188: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
20189: 309 unit uPSI_JvImagPrvw; //JCL
20190: 310 unit uPSI_JvFormPatch; //JCL
20191: 311 unit uPSI_JvPicClip; //JCL
20192: 312 unit uPSI_JvDataConv; //JCL
20193: 313 unit uPSI_JvCpuUsage; //JCL
20194: 314 unit uPSI_JclUnitConv_mx2; //JCL
20195: 315 unit JvDualListForm; //JCL
20196: 316 unit uPSI_JvCpuUsage2; //JCL
20197: 317 unit uPSI_JvParserForm; //JCL
20198: 318 unit uPSI_JvJanTreeView; //JCL
20199: 319 unit uPSI_JvTransLED; //JCL
20200: 320 unit uPSI_JvPlaylist; //JCL
20201: 321 unit uPSI_JvFormAutoSize; //JCL
20202: 322 unit uPSI_JvYearGridEditForm; //JCL
20203: 323 unit uPSI_JvMarkupCommon; //JCL
20204: 324 unit uPSI_JvChart; //JCL
20205: 325 unit uPSI_JvXPCore; //JCL
20206: 326 unit uPSI_JvXPCoreUtils; //JCL
20207: 327 unit uPSI_StatsClasses; //mx4
20208: 328 unit uPSI_ExtCtrls2; //VCL
20209: 329 unit uPSI_JvUrlGrabbers; //JCL
20210: 330 unit uPSI_JvXmlTree; //JCL
20211: 331 unit uPSI_JvWavePlayer; //JCL
20212: 332 unit uPSI_JvUnicodeCanvas; //JCL
20213: 333 unit uPSI_JvTFUtils; //JCL
20214: 334 unit uPSI_IdServerIOHandler; //Indy
20215: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
20216: 336 unit uPSI_IdMessageCoder; //Indy
20217: 337 unit uPSI_IdMessageCoderMIME; //Indy
20218: 338 unit uPSI_IdMIMETypes; //Indy

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20219: 339 unit uPSI_JvConverter; //JCL
20220: 340 unit uPSI_JvCsvParse; //JCL
20221: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
20222: 342 unit uPSI_ExcelExport;(Nat:TJsExcelExport) //JCL
20223: 343 unit uPSI_JvDBGridExport; //JCL
20224: 344 unit uPSI_JvgExport; //JCL
20225: 345 unit uPSI_JvSerialMaker; //JCL
20226: 346 unit uPSI_JvWin32; //JCL
20227: 347 unit uPSI_JvPaintFX; //JCL
20228: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
20229: 349 unit uPSI_JvValidators; (preview) //JCL
20230: 350 unit uPSI_JvNTEventLog; //JCL
20231: 351 unit uPSI_ShellZipTool; //mX4
20232: 352 unit uPSI_JvJoystick; //JCL
20233: 353 unit uPSI_JvMailSlots; //JCL
20234: 354 unit uPSI_JclComplex; //JCL
20235: 355 unit uPSI_SynPdf; //Synopse
20236: 356 unit uPSI_Registry; //VCL
20237: 357 unit uPSI_TlHelp32; //VCL
20238: 358 unit uPSI_JclRegistry; //JCL
20239: 359 unit uPSI_JvAirBrush; //JCL
20240: 360 unit uPSI_mORMotReport; //Synopse
20241: 361 unit uPSI_JclLocales; //JCL
20242: 362 unit uPSI_SynEdit; //SynEdit
20243: 363 unit uPSI_SynEditTypes; //SynEdit
20244: 364 unit uPSI_SynMacroRecorder; //SynEdit
20245: 365 unit uPSI_LongIntList; //SynEdit
20246: 366 unit uPSI_devutils; //DevC
20247: 367 unit uPSI_SynEditMiscClasses; //SynEdit
20248: 368 unit uPSI_SynEditRegexSearch; //SynEdit
20249: 369 unit uPSI_SynEditHighlighter; //SynEdit
20250: 370 unit uPSI_SynHighlighterPas; //SynEdit
20251: 371 unit uPSI_JvSearchFiles; //JCL
20252: 372 unit uPSI_SynHighlighterAny; //Lazarus
20253: 373 unit uPSI_SynEditKeyCmds; //SynEdit
20254: 374 unit uPSI_SynEditMiscProcs; //SynEdit
20255: 375 unit uPSI_SynEditKbdHandler; //SynEdit
20256: 376 unit uPSI_JvAppInst; //JCL
20257: 377 unit uPSI_JvAppEvent; //JCL
20258: 378 unit uPSI_JvAppCommand; //JCL
20259: 379 unit uPSI_JvAnimTitle; //JCL
20260: 380 unit uPSI_JvAnimatedImage; //JCL
20261: 381 unit uPSI_SynEditExport; //SynEdit
20262: 382 unit uPSI_SynExportHTML; //SynEdit
20263: 383 unit uPSI_SynExportRTF; //SynEdit
20264: 384 unit uPSI_SynEditSearch; //SynEdit
20265: 385 unit uPSI_fMain_back; //maxBox;
20266: 386 unit uPSI_JvZoom; //JCL
20267: 387 unit uPSI_PMrand; //PM
20268: 388 unit uPSI_JvSticker; //JCL
20269: 389 unit uPSI_XmlVerySimple; //mX4
20270: 390 unit uPSI_Services; //ExtPascal
20271: 391 unit uPSI_ExtPascalUtils; //ExtPascal
20272: 392 unit uPSI_SocketsDelphi; //ExtPascal
20273: 393 unit uPSI_StBarC; //SysTools
20274: 394 unit uPSI_StDbBarC; //SysTools
20275: 395 unit uPSI_StBarPN; //SysTools
20276: 396 unit uPSI_StDbPNBC; //SysTools
20277: 397 unit uPSI_StDb2DBC; //SysTools
20278: 398 unit uPSI_StMoney; //SysTools
20279: 399 unit uPSI_JvForth; //JCL
20280: 400 unit uPSI_RestRequest; //mX4
20281: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
20282: 402 unit uPSI_JvXmlDatabase; //update //JCL
20283: 403 unit uPSI_StAstro; //SysTools
20284: 404 unit uPSI_StSort; //SysTools
20285: 405 unit uPSI_StDate; //SysTools
20286: 406 unit uPSI_StDateSt; //SysTools
20287: 407 unit uPSI_StBase; //SysTools
20288: 408 unit uPSI_StVInfo; //SysTools
20289: 409 unit uPSI_JvBrowseFolder; //JCL
20290: 410 unit uPSI_JvBoxProcs; //JCL
20291: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
20292: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
20293: 413 unit uPSI_JvHighlighter; //JCL
20294: 414 unit uPSI_Diff; //mX4
20295: 415 unit uPSI_SpringWinAPI; //DSpring
20296: 416 unit uPSI_StBits; //SysTools
20297: 417 unit uPSI_TomDBQue; //mX4
20298: 418 unit uPSI_MultilangTranslator; //mX4
20299: 419 unit uPSI_HyperLabel; //mX4
20300: 420 unit uPSI_Starter; //mX4
20301: 421 unit uPSI_FileAssoc; //devC
20302: 422 unit uPSI_devFileMonitorX; //devC
20303: 423 unit uPSI_devrunt; //devC
20304: 424 unit uPSI_devExec; //devC
20305: 425 unit uPSI_OysUtils; //devC
20306: 426 unit uPSI_DosCommand; //devC
20307: 427 unit uPSI_CppTokenizer; //devC

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20308: 428 unit uPSI_JvHLParser; //devC
20309: 429 unit uPSI_JclMapi; //JCL
20310: 430 unit uPSI_JclShell; //JCL
20311: 431 unit uPSI_JclCOM; //JCL
20312: 432 unit uPSI_GR32_Math; //Graphics32
20313: 433 unit uPSI_GR32_LowLevel; //Graphics32
20314: 434 unit uPSI_SimpleHl; //mX4
20315: 435 unit uPSI_GR32_Filters; //Graphics32
20316: 436 unit uPSI_GR32_VectorMaps; //Graphics32
20317: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
20318: 438 unit uPSI_JvTimer; //JCL
20319: 439 unit uPSI_cHTTPUtils; //Fundamentals 4
20320: 440 unit uPSI_cTLSUtils; //Fundamentals 4
20321: 441 unit uPSI_JclGraphics; //JCL
20322: 442 unit uPSI_JclSynch; //Indy
20323: 443 unit uPSI_IdTelnet; //Indy
20324: 444 unit uPSI_IdTelnetServer; //Indy
20325: 445 unit uPSI_IdEcho; //Indy
20326: 446 unit uPSI_IdEchoServer; //Indy
20327: 447 unit uPSI_IdEchoUDP; //Indy
20328: 448 unit uPSI_IdEchoUDPServer; //Indy
20329: 449 unit uPSI_IdSocks; //Indy
20330: 450 unit uPSI_IdAntiFreezeBase; //Indy
20331: 451 unit uPSI_IdHostnameServer; //Indy
20332: 452 unit uPSI_IdTunnelCommon; //Indy
20333: 453 unit uPSI_IdTunnelMaster; //Indy
20334: 454 unit uPSI_IdTunnelSlave; //Indy
20335: 455 unit uPSI_IdRSH; //Indy
20336: 456 unit uPSI_IdRSHServer; //Indy
20337: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
20338: 458 unit uPSI_MapReader; //devC
20339: 459 unit uPSI_LibTar; //devC
20340: 460 unit uPSI_IdStack; //Indy
20341: 461 unit uPSI_IdBlockCipherIntercept; //Indy
20342: 462 unit uPSI_IdChargenServer; //Indy
20343: 463 unit uPSI_IdFTPServer; //Indy
20344: 464 unit uPSI_IdException; //Indy
20345: 465 unit uPSI_utexploit; //DMath
20346: 466 unit uPSI_uwinstr; //DMath
20347: 467 unit uPSI_VarRecUtils; //devC
20348: 468 unit uPSI_JvStringListToHtml; //JCL
20349: 469 unit uPSI_JvStringHolder; //JCL
20350: 470 unit uPSI_IdCoder; //Indy
20351: 471 unit uPSI_SynHighlighterDfm; //Synedit
20352: 472 unit uHighlighterProcs; in 471 //Synedit
20353: 473 unit uPSI_LazFileUtils; //LCL
20354: 474 unit uPSI_IDECmdLine; //LCL
20355: 475 unit uPSI_lazMasks; //LCL
20356: 476 unit uPSI_ip_misc; //mX4
20357: 477 unit uPSI_Barcodes; //LCL
20358: 478 unit uPSI_SimpleXML; //LCL
20359: 479 unit uPSI_JclIniFiles; //JCL
20360: 480 unit uPSI_D2XXUnit; {$X-} //FTDI
20361: 481 unit uPSI_JclDateTime; //JCL
20362: 482 unit uPSI_JclEDI; //JCL
20363: 483 unit uPSI_JclMiscel2; //JCL
20364: 484 unit uPSI_JclValidation; //JCL
20365: 485 unit uPSI_JclAnsiStrings; {-PString} //JCL
20366: 486 unit uPSI_SynEditMiscProcs2; //Synedit
20367: 487 unit uPSI_JclStreams; //JCL
20368: 488 unit uPSI_QRCode; //mX4
20369: 489 unit uPSI_BlockSocket; //ExtPascal
20370: 490 unit uPSI_Masks_Utils; //VCL
20371: 491 unit uPSI_synautil; //Synapse!
20372: 492 unit uPSI_JclMath_Class; //JCL RTL
20373: 493 unit ugamdist; //Gamma function //DMath
20374: 494 unit vibeta, ucorrel; //IBeta //DMath
20375: 495 unit uPSI_SRMgr; //mX4
20376: 496 unit uPSI_HotLog; //mX4
20377: 497 unit uPSI_DebugBox; //mX4
20378: 498 unit uPSI_ustrings; //DMath
20379: 499 unit uPSI_uritest; //DMath
20380: 500 unit uPSI_usimplex; //DMath
20381: 501 unit uPSI_uhyper; //DMath
20382: 502 unit uPSI_IdHL7; //Indy
20383: 503 unit uPSI_IdIPMCastBase; //Indy
20384: 504 unit uPSI_IdIPMCastServer; //Indy
20385: 505 unit uPSI_IdIPMCastClient; //Indy
20386: 506 unit uPSI_unlfit; //nlregression //DMath
20387: 507 unit uPSI_IdRawHeaders; //Indy
20388: 508 unit uPSI_IdRawClient; //Indy
20389: 509 unit uPSI_IdRawFunctions; //Indy
20390: 510 unit uPSI_IdTCPStream; //Indy
20391: 511 unit uPSI_IdSNPP; //Indy
20392: 512 unit uPSI_St2DBarC; //SysTools
20393: 513 unit uPSI_ImageWin; //FTL //VCL
20394: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
20395: 515 unit uPSI_GraphWin; //FTL //VCL
20396: 516 unit uPSI_actionMain; //FTL //VCL

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20397: 517 unit uPSI_StSpawn; //SysTools
20398: 518 unit uPSI_CtlPanel; //VCL
20399: 519 unit uPSI_IdLPR; //Indy
20400: 520 unit uPSI_SockRequestInterpreter; //Indy
20401: 521 unit uPSI_umlambert; //DMath
20402: 522 unit uPSI_ucholesk; //DMath
20403: 523 unit uPSI_SimpleDS; //VCL
20404: 524 unit uPSI_DBXSqlScanner; //VCL
20405: 525 unit uPSI_DBXMetaDataTable; //VCL
20406: 526 unit uPSI_Chart; //TEE
20407: 527 unit uPSI_TeeProcs; //TEE
20408: 528 unit mXBDEUtils; //mX4
20409: 529 unit uPSI_MDIEdit; //VCL
20410: 530 unit uPSI_CopyPsr; //VCL
20411: 531 unit uPSI_SockApp; //VCL
20412: 532 unit uPSI_AppEvnts; //VCL
20413: 533 unit uPSI_ExtActns; //VCL
20414: 534 unit uPSI_TeEngine; //TEE
20415: 535 unit uPSI_CoolMain; //browser //VCL
20416: 536 unit uPSI_StCRC; //SysTools
20417: 537 unit uPSI_StDecMth2; //SysTools
20418: 538 unit uPSI_frmExportMain; //Synedit
20419: 539 unit uPSI_SynDBEdit; //Synedit
20420: 540 unit uPSI_SynEditWildcardSearch; //Synedit
20421: 541 unit uPSI_BoldComUtils; //BOLD
20422: 542 unit uPSI_BoldIsoDateTime; //BOLD
20423: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
20424: 544 unit uPSI_BoldXMLRequests; //BOLD
20425: 545 unit uPSI_BoldStringList; //BOLD
20426: 546 unit uPSI_BoldFileHandler; //BOLD
20427: 547 unit uPSI_BoldContainers; //BOLD
20428: 548 unit uPSI_BoldQueryUserDlg; //BOLD
20429: 549 unit uPSI_BoldWinINet; //BOLD
20430: 550 unit uPSI_BoldQueue; //BOLD
20431: 551 unit uPSI_JvPcx; //JCL
20432: 552 unit uPSI_IdWhois; //Indy
20433: 553 unit uPSI_IdWhoIsServer; //Indy
20434: 554 unit uPSI_IdGopher; //Indy
20435: 555 unit uPSI_IdDateTimeStamp; //Indy
20436: 556 unit uPSI_IdDayTimeServer; //Indy
20437: 557 unit uPSI_IdDayTimeUDP; //Indy
20438: 558 unit uPSI_IdDayTimeUDPServer; //Indy
20439: 559 unit uPSI_IdDICTServer; //Indy
20440: 560 unit uPSI_IdDiscardServer; //Indy
20441: 561 unit uPSI_IdDiscardUDPServer; //Indy
20442: 562 unit uPSI_IdMappedFTP; //Indy
20443: 563 unit uPSI_IdMappedPortTCP; //Indy
20444: 564 unit uPSI_IdGopherServer; //Indy
20445: 565 unit uPSI_IdQotdServer; //Indy
20446: 566 unit uPSI_JvRgbToHtml; //JCL
20447: 567 unit uPSI_JvRemLog; //JCL
20448: 568 unit uPSI_JvSysComp; //JCL
20449: 569 unit uPSI_JvTMTL; //JCL
20450: 570 unit uPSI_JvWinampAPI; //JCL
20451: 571 unit uPSI_MSysUtils; //mX4
20452: 572 unit uPSI_ESBMaths; //ESB
20453: 573 unit uPSI_ESBMaths2; //ESB
20454: 574 unit uPSI_uLkJSON; //Lk
20455: 575 unit uPSI_ZURL; //Zeos
20456: 576 unit uPSI_ZSysUtils; //Zeos
20457: 577 unit unaUtils internals //UNA
20458: 578 unit uPSI_ZMatchPattern; //Zeos
20459: 579 unit uPSI_ZClasses; //Zeos
20460: 580 unit uPSI_ZCollections; //Zeos
20461: 581 unit uPSI_ZEncoding; //Zeos
20462: 582 unit uPSI_IdRawBase; //Indy
20463: 583 unit uPSI_IdNTLM; //Indy
20464: 584 unit uPSI_IdNNTP; //Indy
20465: 585 unit uPSI_usniffer; //PortScanForm //mX4
20466: 586 unit uPSI_IdCoderMIME; //Indy
20467: 587 unit uPSI_IdCoderUUE; //Indy
20468: 588 unit uPSI_IdCoderXXE; //Indy
20469: 589 unit uPSI_IdCoder3to4; //Indy
20470: 590 unit uPSI_IdCookie; //Indy
20471: 591 unit uPSI_IdCookieManager; //Indy
20472: 592 unit uPSI_WDOSocketUtils; //WDOS
20473: 593 unit uPSI_WDOSPlcUtils; //WDOS
20474: 594 unit uPSI_WDOSPorts; //WDOS
20475: 595 unit uPSI_WDOSResolvers; //WDOS
20476: 596 unit uPSI_WDOSTimers; //WDOS
20477: 597 unit uPSI_WDOSPlcs; //WDOS
20478: 598 unit uPSI_WDOSPneumatics; //WDOS
20479: 599 unit uPSI_IdFingerServer; //Indy
20480: 600 unit uPSI_IdDNSResolver; //Indy
20481: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy
20482: 602 unit uPSI_IdIntercept; //Indy
20483: 603 unit uPSI_IdIPMCastBase; //Indy
20484: 604 unit uPSI_IdLogBase; //Indy
20485: 605 unit uPSI_IdIOHandlerStream; //Indy

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20486: 606 unit uPSI_IdMappedPortUDP; //Indy
20487: 607 unit uPSI_IdQOTDUDPServer; //Indy
20488: 608 unit uPSI_IdQOTDUDP; //Indy
20489: 609 unit uPSI_IdSysLog; //Indy
20490: 610 unit uPSI_IdSysLogServer; //Indy
20491: 611 unit uPSI_IdSysLogMessage; //Indy
20492: 612 unit uPSI_IdTimeServer; //Indy
20493: 613 unit uPSI_IdTimeUDP; //Indy
20494: 614 unit uPSI_IdTimeUDPServer; //Indy
20495: 615 unit uPSI_IdUserAccounts; //Indy
20496: 616 unit uPSI_TextUtils; //mX4
20497: 617 unit uPSI_MandelbrotEngine; //mX4
20498: 618 unit uPSI_delphi_arduino_Unit1; //mX4
20499: 619 unit uPSI_DTDSchema2; //mX4
20500: 620 unit uPSI_fplotMain; //DMath
20501: 621 unit uPSI_FindFileIter; //mX4
20502: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
20503: 623 unit uPSI_PppParser; //PPP
20504: 624 unit uPSI_PppLexer; //PPP
20505: 625 unit uPSI_PCharUtils; //PPP
20506: 626 unit uPSI_uJSON; //WU
20507: 627 unit uPSI_JclStrHashMap; //JCL
20508: 628 unit uPSI_JclHookExcept; //JCL
20509: 629 unit uPSI_EncdDecd; //VCL
20510: 630 unit uPSI_SockAppReg; //VCL
20511: 631 unit uPSI_PJFileHandle; //PJ
20512: 632 unit uPSI_PJEnvVars; //PJ
20513: 633 unit uPSI_PJPipe; //PJ
20514: 634 unit uPSI_PJPipeFilters; //PJ
20515: 635 unit uPSI_PJConsoleApp; //PJ
20516: 636 unit uPSI_UConsoleAppEx; //PJ
20517: 637 unit uPSI_DbxSocketChannelNative; //VCL
20518: 638 unit uPSI_DbxDataGenerator; //VCL
20519: 639 unit uPSI_DBXClient; //VCL
20520: 640 unit uPSI_IdLogEvent; //Indy
20521: 641 unit uPSI_Reversi; //mX4
20522: 642 unit uPSI_Geometry; //mX4
20523: 643 unit uPSI_IdSMTPServer; //Indy
20524: 644 unit uPSI_Textures; //mX4
20525: 645 unit uPSI_IBX; //VCL
20526: 646 unit uPSI_IWDBCommon; //VCL
20527: 647 unit uPSI_SortGrid; //mX4
20528: 648 unit uPSI_IB; //VCL
20529: 649 unit uPSI_IBScript; //VCL
20530: 650 unit uPSI_JvCSVBaseControls; //JCL
20531: 651 unit uPSI_Jvg3DCOLORS; //JCL
20532: 652 unit uPSI_JvHLEditor; //beat //JCL
20533: 653 unit uPSI_JvShellHook; //JCL
20534: 654 unit uPSI_DBCommon2; //VCL
20535: 655 unit uPSI_JvSHFileOperation; //JCL
20536: 656 unit uPSI_uFileExport; //mX4
20537: 657 unit uPSI_JvDialogs; //JCL
20538: 658 unit uPSI_JvDBTreeview; //JCL
20539: 659 unit uPSI_JvDBUltimGrid; //JCL
20540: 660 unit uPSI_JvDBQueryParamsForm; //JCL
20541: 661 unit uPSI_JvExControls; //JCL
20542: 662 unit uPSI_JvBDEMemTable; //JCL
20543: 663 unit uPSI_JvCommStatus; //JCL
20544: 664 unit uPSI_JvMailSlots2; //JCL
20545: 665 unit uPSI_JvgWinMask; //JCL
20546: 666 unit uPSI_StEclipse; //SysTools
20547: 667 unit uPSI_StMime; //SysTools
20548: 668 unit uPSI_StList; //SysTools
20549: 669 unit uPSI_StMerge; //SysTools
20550: 670 unit uPSI_StStrS; //SysTools
20551: 671 unit uPSI_StTree; //SysTools
20552: 672 unit uPSI_StVArr; //SysTools
20553: 673 unit uPSI_StRegIni; //SysTools
20554: 674 unit uPSI_urkf; //DMath
20555: 675 unit uPSI_usvd; //DMath
20556: 676 unit uPSI_DepWalkUtils; //JCL
20557: 677 unit uPSI_OptionsFrm; //JCL
20558: 678 unit yuvconverts; //mX4
20559: 679 uPSI_JvPropAutoSave; //JCL
20560: 680 uPSI_AclAPI; //alcinoe
20561: 681 uPSI_AviCap; //alcinoe
20562: 682 uPSI_ALAVLBinaryTree; //alcinoe
20563: 683 uPSI_ALFcMisc; //alcinoe
20564: 684 uPSI_ALStringList; //alcinoe
20565: 685 uPSI_ALQuickSortList; //alcinoe
20566: 686 uPSI_ALStaticText; //alcinoe
20567: 687 uPSI_ALJSONDOC; //alcinoe
20568: 688 uPSI_ALGSMComm; //alcinoe
20569: 689 uPSI_ALWindows; //alcinoe
20570: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
20571: 691 uPSI_ALHttpCommon; //alcinoe
20572: 692 uPSI_ALWebSpider; //alcinoe
20573: 693 uPSI_ALHttpClient; //alcinoe
20574: 694 uPSI_ALFcHTML; //alcinoe

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20575: 695 uPSI_ALFTPClient; //alcinoe
20576: 696 uPSI_ALInternetMessageCommon; //alcinoe
20577: 697 uPSI_ALWininetHttpClient; //alcinoe
20578: 698 uPSI_ALWinInetFTPCClient; //alcinoe
20579: 699 uPSI_ALWinHttpWrapper; //alcinoe
20580: 700 uPSI_ALWinHttpClient; //alcinoe
20581: 701 uPSI_ALFcncWinSock; //alcinoe
20582: 702 uPSI_ALFcncSQL; //alcinoe
20583: 703 uPSI_ALFcncCGI; //alcinoe
20584: 704 uPSI_ALFcncExecute; //alcinoe
20585: 705 uPSI_ALFcncFile; //alcinoe
20586: 706 uPSI_ALFcncMime; //alcinoe
20587: 707 uPSI_ALPhpRunner; //alcinoe
20588: 708 uPSI_ALGraphic; //alcinoe
20589: 709 uPSI_ALIniFiles; //alcinoe
20590: 710 uPSI_ALMemCachedClient; //alcinoe
20591: 711 unit uPSI_MyGrids; //mX4
20592: 712 uPSI_ALMultiPartMixedParser //alcinoe
20593: 713 uPSI_ALSMTCPClient //alcinoe
20594: 714 uPSI_ALNNNTCPClient; //alcinoe
20595: 715 uPSI_ALHintBalloon; //alcinoe
20596: 716 unit uPSI_ALXmlDoc; //alcinoe
20597: 717 unit uPSI_IPCThrd; //VCL
20598: 718 unit uPSI_MonForm; //VCL
20599: 719 unit uPSI_TeCanvas; //Orpheus
20600: 720 unit uPSI_Ovcmisc; //Orpheus
20601: 721 unit uPSI_ovcfiler; //Orpheus
20602: 722 unit uPSI_ovcstate; //Orpheus
20603: 723 unit uPSI_ovccoco; //Orpheus
20604: 724 unit uPSI_ovcrvexp; //Orpheus
20605: 725 unit uPSI_OvcFormatSettings; //Orpheus
20606: 726 unit uPSI_OvcUtils; //Orpheus
20607: 727 unit uPSI_ovcstore; //Orpheus
20608: 728 unit uPSI_ovcstr; //Orpheus
20609: 729 unit uPSI_ovcmru; //Orpheus
20610: 730 unit uPSI_ovccmd; //Orpheus
20611: 731 unit uPSI_ovctimer; //Orpheus
20612: 732 unit uPSI_ovcintl; //Orpheus
20613: 733 uPSI_AfCircularBuffer; //AsyncFree
20614: 734 uPSI_AfUtils; //AsyncFree
20615: 735 uPSI_AfSafeSync; //AsyncFree
20616: 736 uPSI_AfComPortCore; //AsyncFree
20617: 737 uPSI_AfComPort; //AsyncFree
20618: 738 uPSI_AfPortControls; //AsyncFree
20619: 739 uPSI_AfDataDispatcher; //AsyncFree
20620: 740 uPSI_AfViewers; //AsyncFree
20621: 741 uPSI_AfDataTerminal; //AsyncFree
20622: 742 uPSI_SimplePortMain; //AsyncFree
20623: 743 unit uPSI_ovcclock; //Orpheus
20624: 744 unit uPSI_o32intlst; //Orpheus
20625: 745 unit uPSI_o32ledlabel; //Orpheus
20626: 746 unit uPSI_AlMySqlClient; //alcinoe
20627: 747 unit uPSI_ALFBXClient; //alcinoe
20628: 748 unit uPSI_ALFcncSQL; //alcinoe
20629: 749 unit uPSI_AsyncTimer; //mX4
20630: 750 unit uPSI_ApplicationFileIO; //mX4
20631: 751 unit uPSI_PsAPI; //VCLé
20632: 752 uPSI_ovcuser; //Orpheus
20633: 753 uPSI_ovcurl; //Orpheus
20634: 754 uPSI_ovcvlb; //Orpheus
20635: 755 uPSI_ovccolor; //Orpheus
20636: 756 uPSI_ALFBXLib; //alcinoe
20637: 757 uPSI_ovcmeter; //Orpheus
20638: 758 uPSI_ovcpeakm; //Orpheus
20639: 759 uPSI_O32BGSty; //Orpheus
20640: 760 uPSI_ovcBidi; //Orpheus
20641: 761 uPSI_ovctcarry; //Orpheus
20642: 762 uPSI_DXPUtils; //mX4
20643: 763 uPSI_ALMultiPartBaseParser; //alcinoe
20644: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
20645: 765 uPSI_ALPOP3Client; //alcinoe
20646: 766 uPSI_SmallUtils; //mX4
20647: 767 uPSI_MakeApp; //mX4
20648: 768 uPSI_O32MouseMon; //Orpheus
20649: 769 uPSI_OvcCache; //Orpheus
20650: 770 uPSI_ovccalci; //Orpheus
20651: 771 uPSI_Joystick; //OpenGL
20652: 772 uPSI_ScreenSaver; //OpenGL
20653: 773 uPSI_XCollection; //OpenGL
20654: 774 uPSI_Polynomials; //OpenGL
20655: 775 uPSI_PersistentClasses, //9.86 //OpenGL
20656: 776 uPSI_VectorLists; //OpenGL
20657: 777 uPSI_XOpenGL; //OpenGL
20658: 778 uPSI_MeshUtils; //OpenGL
20659: 779 unit uPSI_JclSysUtils; //JCL
20660: 780 unit uPSI_JclBorlandTools; //JCL
20661: 781 unit JclFileUtils_max; //JCL
20662: 782 uPSI_AfDataControls, //AsyncFree
20663: 783 uPSI_GLSilhouette; //OpenGL

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20664: 784 uPSI_JclSysUtils_class;           //JCL
20665: 785 uPSI_JclFileUtils_class;          //JCL
20666: 786 uPSI_FileUtil;                   //JCL
20667: 787 uPSI_changefind;                //mX4
20668: 788 uPSI_CmdIntf;                  //mX4
20669: 789 uPSI_fservice;                 //mX4
20670: 790 uPSI_Keyboard;                  //OpenGL
20671: 791 uPSI_VRMLParser;               //OpenGL
20672: 792 uPSI_GLFileVRML;              //OpenGL
20673: 793 uPSI_Octree;                  //OpenGL
20674: 794 uPSI_GLPolyhedron;             //OpenGL
20675: 795 uPSI_GLCrossPlatform;          //OpenGL
20676: 796 uPSI_GLParticles;              //OpenGL
20677: 797 uPSI_GLNavigator;              //OpenGL
20678: 798 uPSI_GLStarRecord;             //OpenGL
20679: 799 uPSI_GLTextureCombiners;       //OpenGL
20680: 800 uPSI_GLCanvas;                 //OpenGL
20681: 801 uPSI_GeometryBB;              //OpenGL
20682: 802 uPSI_GeometryCoordinates;       //OpenGL
20683: 803 uPSI_VectorGeometry;            //OpenGL
20684: 804 uPSI_BumpMapping;              //OpenGL
20685: 805 uPSI_TGA;                     //OpenGL
20686: 806 uPSI_GLVectorFileObjects;       //OpenGL
20687: 807 uPSI_IMM;                    //VCL
20688: 808 uPSI_CategoryButtons;           //VCL
20689: 809 uPSI_ButtonGroup;              //VCL
20690: 810 uPSI_DbExcept;                //VCL
20691: 811 uPSI_AxCtrls;                 //VCL
20692: 812 uPSI_GL_actorUnit1;            //OpenGL
20693: 813 uPSI_StdVCL;                 //VCL
20694: 814 unit CurvesAndSurfaces;        //OpenGL
20695: 815 uPSI_DataAwareMain;             //AsyncFree
20696: 816 uPSI_TabNotBk;                //VCL
20697: 817 uPSI_udwsfiler;               //mX4
20698: 818 uPSI_synaip;                 //Synapse!
20699: 819 uPSI_synacode;                //Synapse
20700: 820 uPSI_synachar;                //Synapse
20701: 821 uPSI_synamisc;                //Synapse
20702: 822 uPSI_synaser;                 //Synapse
20703: 823 uPSI_synaicnv;                //Synapse
20704: 824 uPSI_tlnetsend;               //Synapse
20705: 825 uPSI_pingsend;                //Synapse
20706: 826 uPSI_blksock;                 //Synapse
20707: 827 uPSI_asn1util;                //Synapse
20708: 828 uPSI_dnssend;                 //Synapse
20709: 829 uPSI_clamsend;                //Synapse
20710: 830 uPSI_ldapsend;                //Synapse
20711: 831 uPSI_mimemess;                //Synapse
20712: 832 uPSI_slogsend;                //Synapse
20713: 833 uPSI_mimepart;                //Synapse
20714: 834 uPSI_mimeinln;                //Synapse
20715: 835 uPSI_ftpsend;                //Synapse
20716: 836 uPSI_ftptsend;                //Synapse
20717: 837 uPSI_httpsend;                //Synapse
20718: 838 uPSI_sntpsend;                //Synapse
20719: 839 uPSI_smtpsend;                //Synapse
20720: 840 uPSI_snmpsend;                //Synapse
20721: 841 uPSI_imapsend;                //Synapse
20722: 842 uPSI_pop3send;                //Synapse
20723: 843 uPSI_ntpsend;                 //Synapse
20724: 844 uPSI_ssl_cryptlib;             //Synapse
20725: 845 uPSI_ssl_openssl;              //Synapse
20726: 846 uPSI_synhttp_daemon;           //Synapse
20727: 847 uPSI_NetWork;                 //mX4
20728: 848 uPSI_PingThread;               //Synapse
20729: 849 uPSI_JvThreadTimer;             //JCL
20730: 850 unit uPSI_wwSystem;             //InfoPower
20731: 851 unit uPSI_IdComponent;          //Indy
20732: 852 unit uPSI_IdIOHandlerThrottle; //Indy
20733: 853 unit uPSI_Themes;               //VCL
20734: 854 unit uPSI_StdStyleActnCtrls;    //VCL
20735: 855 unit uPSI_UDDIHelper;            //VCL
20736: 856 unit uPSI_IdIMAP4Server;        //Indy
20737: 857 uPSI_VariantSymbolTable;         //VCL //3.9.9.92
20738: 858 uPSI_udf_glob;                 //mX4
20739: 859 uPSI_TabGrid;                  //VCL
20740: 860 uPSI_JsDBTreeView;              //mX4
20741: 861 uPSI_JsSendMail;                //mX4
20742: 862 uPSI_dbTvRecordList;             //mX4
20743: 863 uPSI_TreeVwEx;                 //mX4
20744: 864 uPSI_ECDatalink;                //mX4
20745: 865 uPSI_dbTree;                   //mX4
20746: 866 uPSI_dbTreeCBox;                //mX4
20747: 867 unit uPSI_Debug; //TfrmDebug //mX4
20748: 868 uPSI_TimeFnCs;                 //mX4
20749: 869 uPSI_FileIntf;                  //VCL
20750: 870 uPSI_SockTransport;              //RTL
20751: 871 unit uPSI_WinInet;               //RTL
20752: 872 unit uPSI_Wwstr;                //mX4

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20753: 873 uPSI_DBLookup,                                //VCL
20754: 874 uPSI_Hotspot,                               //mX4
20755: 875 uPSI_HList; //History List                //mX4
20756: 876 unit uPSI_DrTable;                         //VCL
20757: 877 uPSI_TConnect,                            //VCL
20758: 978 uPSI_DataBkr,                            //VCL
20759: 979 uPSI_HTTPIntr,                           //VCL
20760: 980 unit uPSI_Mathbox;                        //mX4
20761: 881 uPSI_cyIndy,                             //cY
20762: 882 uPSI_cySysUtils,                          //cY
20763: 883 uPSI_cyWinUtils,                          //cY
20764: 884 uPSI_cyStrUtils,                          //cY
20765: 885 uPSI_cyObjUtils,                          //cY
20766: 886 uPSI_cyDateUtils,                         //cY
20767: 887 uPSI_cyBDE,                             //cY
20768: 888 uPSI_cyClasses,                          //cY
20769: 889 uPSI_cyGraphics, //3.9.9.94_2          //cY
20770: 890 unit uPSI_cyTypes;                        //cY
20771: 891 uPSI_JvDateTimePicker,                   //JCL
20772: 892 uPSI_JvCreateProcess,                   //JCL
20773: 893 uPSI_JvEasterEgg,                        //JCL
20774: 894 uPSI_WinSvc, //3.9.9.94_3            //VCL
20775: 895 uPSI_SvcMgr,                            //VCL
20776: 896 unit uPSI_JvPickDate;                  //JCL
20777: 897 unit uPSI_JvNotify;                     //JCL
20778: 898 uPSI_JvStrHlder,                         //JCL
20779: 899 unit uPSI_JclNTFS2;                    //JCL
20780: 900 uPSI_Jcl8087 //math coprocessor        //JCL
20781: 901 uPSI_JvAddPrinter,                      //JCL
20782: 902 uPSI_JvCabFile,                          //JCL
20783: 903 uPSI_JvDataEmbedded,                   //JCL
20784: 904 unit uPSI_U_HexView;                   //mX4
20785: 905 uPSI_UWavein4,                          //mX4
20786: 906 uPSI_AMixer,                           //mX4
20787: 907 uPSI_JvaScrollText,                   //mX4
20788: 908 uPSI_JvArrow,                           //mX4
20789: 909 unit uPSI.UrlMon;                     //mX4
20790: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
20791: 911 unit uPSI_U_Oscilloscope4; //TOScfrmMain, //DFF
20792: 912 unit uPSI_DFUTools;                   //DFF
20793: 913 unit uPSI_MathsLib;                   //DFF
20794: 914 uPSI_UIntList;                        //DFF
20795: 915 uPSI_UGetParens;                      //DFF
20796: 916 unit uPSI_UGeometry;                  //DFF
20797: 917 unit uPSI_UAstronomy;                 //DFF
20798: 918 unit uPSI_UCardComponentV2;           //DFF
20799: 919 unit uPSI_UTGraphSearch;              //DFF
20800: 920 unit uPSI_UParser10;                  //DFF
20801:
20802:
20803:
20804:
20805:
20806: ///////////////////////////////////////////////////////////////////
20807: //Form Template Library FTL
20808: ///////////////////////////////////////////////////////////////////
20809:
20810: 30 FTL For Form Building out of the Script, eg. 399_form_templates.txt
20811:
20812: 045 unit uPSI_VListView;                    TFormListView;
20813: 263 unit uPSI_JvProfiler32;                TProfReport
20814: 270 unit uPSI_ImgList;                     TCustomImageList
20815: 278 unit uPSI_JvImageWindow;               TJvImageWindow
20816: 317 unit uPSI_JvParserForm;                TJvHTMLParserForm
20817: 497 unit uPSI_DebugBox;                    TDebugBox
20818: 513 unit uPSI_ImageWin;                   TImageForm, TImageForm2
20819: 514 unit uPSI_CustomDrawTreeView;          TCustomDrawForm
20820: 515 unit uPSI_GraphWin;                   TGraphWinForm
20821: 516 unit uPSI_actionMain;                 TActionForm
20822: 518 unit uPSI_CtlPanel;                   TAppletApplication
20823: 529 unit uPSI_MDIEdit;                    TEeditForm
20824: 535 unit uPSI_CoolMain; {browser}        TWebMainForm
20825: 538 unit uPSI_frmExportMain;              TSynexportForm
20826: 585 unit uPSI_usniffer; {PortScanForm}   TSniffForm
20827: 600 unit uPSI_ThreadForm;                 TThreadSortForm;
20828: 618 unit uPSI_delphi_arduino_Unit1;      TLEDForm
20829: 620 unit uPSI_fpplotMain;                 TfplotForm1
20830: 660 unit uPSI_JvDBQueryParamsForm;       TJvQueryParamsDialog
20831: 677 unit uPSI_OptionsFrm;                TfrmOptions;
20832: 718 unit uPSI_MonForm;                   TMonitorForm
20833: 742 unit uPSI_SimplePortMain;             TPortForm1
20834: 770 unit uPSI_ovccalc;                   TOvcCalculator //widget
20835: 810 unit uPSI_DbExcept;                  TDbEngineErrorDlg
20836: 812 unit uPSI_GL_actorUnit1;             TglActorForm1 //OpenGL Robot
20837: 846 unit uPSI_synhttp_daemon;            TTCPHttpDaemon, TTCPHttpThrd, TPingThread
20838: 867 unit uPSI_Debug;                     TfrmDebug
20839: 904 unit uPSI_U_HexView;                 THexForm2
20840: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOScfrmMain
20841:

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```
20842:  
20843:  
20844: ex.:with TEditForm.create(self) do begin  
20845:   caption:= 'Template Form Tester';  
20846:   FormStyle:= fsStayOnTop;  
20847:   with editor do begin  
20848:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mx2.rtf'  
20849:     SelStart:= 0;  
20850:     Modified:= False;  
20851:   end;  
20852: end;  
20853: with TWebMainForm.create(self) do begin  
20854:   URLs.Text:= 'http://www.kleiner.ch';  
20855:   URLsClick(self); Show;  
20856: end;  
20857: with TSynexportForm.create(self) do begin  
20858:   Caption:= 'Synexport HTML RTF tester';  
20859:   Show;  
20860: end;  
20861: with TThreadSortForm.create(self) do begin  
20862:   ShowModal; free;  
20863: end;  
20864:  
20865: with TCustomDrawForm.create(self) do begin  
20866:   width:=820; height:=820;  
20867:   image1.height:= 600; //add properties  
20868:   image1.picture.bitmap:= image2.picture.bitmap;  
20869:   //SelectionBackground1Click(self) CustomDraw1Click(self);  
20870:   Background1.click;  
20871:   bitmap1.click;  
20872:   Tile1.click;  
20873:   ShowModal;  
20874:   Free;  
20875: end;  
20876:  
20877: with TfplotForm1.Create(self) do begin  
20878:   BtnPlotClick(self);  
20879:   ShowModal; Free;  
20880: end;  
20881:  
20882: with TOvcCalculator.create(self) do begin  
20883:   parent:= aForm;  
20884:   //free;  
20885:   setbounds(550,510,200,150);  
20886:   displaystr:= 'maXcalc';  
20887: end;  
20888:  
20889: with THexForm2.Create(self) do begin  
20890:   ShowModal;  
20891:   Free;  
20892: end;  
20893:  
20894:  
20895:  
20896:  
20897: //////////////////////////////////////////////////////////////////  
20898: All maxBox Tutorials Table of Content 2014  
20899: //////////////////////////////////////////////////////////////////  
20900: Tutorial 00 Function-Coding (Blix the Programmer)  
20901: Tutorial 01 Procedural-Coding  
20902: Tutorial 02 OO-Programming  
20903: Tutorial 03 Modular Coding  
20904: Tutorial 04 UML Use Case Coding  
20905: Tutorial 05 Internet Coding  
20906: Tutorial 06 Network Coding  
20907: Tutorial 07 Game Graphics Coding  
20908: Tutorial 08 Operating System Coding  
20909: Tutorial 09 Database Coding  
20910: Tutorial 10 Statistic Coding  
20911: Tutorial 11 Forms Coding  
20912: Tutorial 12 SQL DB Coding  
20913: Tutorial 13 Crypto Coding  
20914: Tutorial 14 Parallel Coding  
20915: Tutorial 15 Serial RS232 Coding  
20916: Tutorial 16 Event Driven Coding  
20917: Tutorial 17 Web Server Coding  
20918: Tutorial 18 Arduino System Coding  
20919: Tutorial 18_3 RGB LED System Coding  
20920: Tutorial 19 WinCOM /Arduino Coding  
20921: Tutorial 20 Regular Expressions RegEx  
20922: Tutorial 21 Android Coding (coming 2013)  
20923: Tutorial 22 Services Programming  
20924: Tutorial 23 Real Time Systems  
20925: Tutorial 24 Clean Code  
20926: Tutorial 25 maxBox Configuration I+II  
20927: Tutorial 26 Socket Programming with TCP  
20928: Tutorial 27 XML & TreeView  
20929: Tutorial 28 DLL Coding (available)  
20930: Tutorial 29 UML Scripting (2014)
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20931:     Tutorial 30 Web of Things (coming 2014)
20932:     Tutorial 31 Closures (coming 2014)
20933:     Tutorial 32 SQL Firebird (coming 2014)
20934:
20935:
20936: Doc ref Docu for all Type Class and Const in maXbox_types.pdf
20937: using Docu for this file is maxbox_functions_all.pdf
20938: PEP - Pascal Education Program Lib Lab
20939:
20940: http://stackoverflow.com/tags/pascalscript/hot
20941: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
20942: http://sourceforge.net/projects/maxbox #locs:51620
20943: http://sourceforge.net/apps/mediawiki/maxbox
20944: http://www.blaisepascal.eu/
20945: https://github.com/maxkleiner/maxbox3.git
20946: http://www.heise.de/download/maxbox-1176464.html
20947: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
20948: https://www.facebook.com/pages/Programming-maxbox/166844836691703
20949:
20950: ---- bigbitbox code_cleared_checked----
```