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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: 22620672 V3.9.9.98 August 2014 To EKON/BASTA/JAX/IBZ/SWS/EU/DD
10: *****Now the Funclist*****
11: Funclist Function : 13140 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 8079 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1301 //995 //
16: def head:max: maxBox7: 11.08.2014 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: 22520! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 22284
22: ASize of EXE: 22620672 (22041600) (16586240) (13511680)
23: SHA1 Hash of maxbox 3.9.9.98: 4C7A84045994D69DA0131D3E518D9B4901F20C5D
24:
25: -----
26: -----
27: //////////////////////////////////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: Function *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: Function ( Index: Longint): Integer
34: function (Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: Function _CheckAutoResult( ResultCode: HResult) : HResult
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: Function Abs(e : Extended) : Extended;
39: Function Ackermann( const A, B : Integer) : Integer
40: Function AcquireLayoutLock : Boolean
41: Function ActionByName( const AName : string) : TWebActionItem
42: Function ACTIVEBUFFER : PCHAR
43: Function Add : TAggregate
44: function Add : TCollectionItem
45: Function Add : TColumn
46: Function Add : TComboExItem
47: Function Add : TCookie
48: Function Add : TCoolBand
49: Function Add : TFavoriteLinkItem
50: Function Add : TFileTypeItem
51: Function Add : THeaderSection
52: Function Add : THTMLTableColumn
53: Function Add : TIdEmailAddressItem
54: Function Add : TIdMessagePart
55: Function Add : TIdUserAccount
56: Function Add : TListColumn
57: Function Add : TListItem
58: Function Add : TStatusPanel
59: Function Add : TTaskDialogBaseButtonItem
60: Function Add : TWebActionItem
61: Function Add : TWorkArea
62: Function Add( AClass : TClass) : Integer
63: Function Add( AComponent : TComponent) : Integer
64: Function Add( AItem, AData : Integer) : Integer
65: Function Add( AItem, AData : Pointer) : Pointer
66: Function Add( AItem, AData : TObject) : TObject
67: Function Add( AObject : TObject) : Integer
68: Function Add( const Access, Count : Cardinal; const Offset : Int64) : Integer
69: Function Add( const S : WideString) : Integer
70: Function Add( Image, Mask : TBitmap) : Integer
71: Function Add( Index : LongInt; const Text : string) : LongInt
72: Function Add( Sibling : TTreeNode; const S : string) : TTreeNode
73: Function Add(const S: string): Integer
74: function Add(S: string): Integer;
75: Function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address: Pointer) : Integer
76: Function ADDCHILD : TFIELDDEF
77: Function AddChild( Index : LongInt; const Text : string) : LongInt
78: Function AddChild( Parent : TTreeNode; const S : string) : TTreeNode
79: Function AddChildFirst( Parent : TTreeNode; const S : string) : TTreeNode
80: Function AddChildObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
81: Function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
82: Function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
83: Function ADDFIELDDEF : TFIELDDEF
84: Function AddFileExtIfNecessary( AFileName, AExt : string) : string
85: Function AddFirst( Sibling : TTreeNode; const S : string) : TTreeNode
86: Function AddIcon( Image : TIcon) : Integer
87: Function AddImage( Value : TCustomImageList; Index : Integer) : Integer
88: Function ADDINDEXDEF : TINDEXDEF
89: Function AddItem(const Caption:String;const ImageIdx,SelectImageIdx,OverlayImagIdx,
    Indent:Int;Data:Ptr):TComboExItem

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

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

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

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

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

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

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613: Function DegToRad2( const Value : Single ) : Single;
614: Function DelChar( const pStr : string; const pChar : Char ) : string
615: Function DelEnvironmentVar( const Name : string ) : Boolean
616: Function Delete( const MsgNum : Integer ) : Boolean
617: Function DeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
618: Function DeleteFile( const FileName : string ) : boolean
619: Function DeleteFileEx( FileName : string; Flags : FILEOP_FLAGS ) : Boolean
620: Function DelimiterPosn( const sString : string; const sDelimiters: string): integer;
621: Function DelimiterPosn1(const sString:string;const sDelimiters:string;out cDelimiter: char) : integer;
622: Function DelSpace( const pStr : string ) : string
623: Function DelString( const pStr, pDelStr : string ) : string
624: Function DelTree( const Path : string ) : Boolean
625: Function Depth : Integer
626: Function Description : string
627: Function DescriptionsAvailable : Boolean
628: Function DescriptionToConvFamily( const ADescription : string; out AFamily : TConvFamily ) : Boolean
629: Function DescriptionToConvType( const ADescription : string; out AType : TConvType ) : Boolean;
630: Function DescriptionToConvType1(const AFamil:TConvFamily;const ADescr:string;out ATypr:TConvType):Boolean;
631: Function DetectUTF8Encoding( const s : UTF8String ) : TEncodeType
632: Function DialogsToPixelsX( const Dialogs : Word ) : Word
633: Function DialogsToPixelsY( const Dialogs : Word ) : Word
634: Function Digits( const X : Cardinal ) : Integer
635: Function DirectoryExists( const Name : string ) : Boolean
636: Function DirectoryExists( Directory : string ) : Boolean
637: Function DiskFree( Drive : Byte ) : Int64
638: function DiskFree(Drive: Byte): Int64)
639: Function DiskInDrive( Drive : Char ) : Boolean
640: Function DiskSize( Drive : Byte ) : Int64
641: function DiskSize(Drive: Byte): Int64)
642: Function DISPATCHCOMMAND( ACMD : WORD ) : BOOLEAN
643: Function DispatchEnabled : Boolean
644: Function DispatchMask : TMask
645: Function DispatchMethodType : TMethodType
646: Function DISPATCHPOPUP( AHANDLE : HMENU ) : BOOLEAN
647: Function DispatchRequest( Sender : TObject; Request : TWebRequest; Response : TWebResponse ) : Boolean
648: Function DisplayCase( const S : String ) : String
649: Function DisplayRect( Code : TDisplayCode ) : TRect
650: Function DisplayRect( TextOnly : Boolean ) : TRect
651: Function DisplayStream( Stream : TStream ) : string
652: TBufferCoord', 'record Char : integer; Line : integer; end
653: TDisplayCoord , 'record Column : integer; Row : integer; end
654: Function DisplayCoord( AColumn, ARow : Integer ) : TDisplayCoord
655: Function BufferCoord( AChar, ALine : Integer ) : TBufferCoord
656: Function DomainName( const AHost : String ) : String
657: Function DosPathToUnixPath( const Path : string ) : string
658: Function DottedLineTo( const Canvas : TCanvas; const X, Y : Integer ) : Boolean;
659: Function DoubleDecliningBalance( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
660: Function DoubleToBcd( const AValue : Double ) : TBcd;
661: Function DoubleToHex( const D : Double ) : string
662: Function DoUpdates : Boolean
663: Function Dragging : Boolean;
664: Function DrawCaption( p1 : HWND; p2 : HDC; const p3 : TRect; p4 : UINT ) : BOOL
665: Function DrawAnimatedRects( hwnd : HWND; idAni : Integer; const lprcFrom, lprcTo : TRect ) : BOOL
666: Function DrawEdge( hdc : HDC; var qrc : TRect; edge : UINT; grfFlags : UINT ) : BOOL
667: Function DrawFrameControl( DC : HDC; const Rect : TRect; uType, uState : UINT ) : BOOL
668: {Works like InputQuery but displays 2 edits. If PasswordChar <> #0, the second edit's PasswordChar is set}
669: Function DualInputQuery(const ACapt,Prpt1,Prpt2:string;var AVall,AVal2:string;PasswrdChar:Char= #0):Bool;
670: Function DupeString( const AText : string; ACount : Integer ) : string
671: Function Edit : Boolean
672: Function EditCaption : Boolean
673: Function EditText : Boolean
674: Function EditFolderList( Folders : TStrings ) : Boolean
675: Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
676: Function Elapsed( const Update : Boolean ) : Cardinal
677: Function EnableProcessPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
678: Function EnableThreadPrivilege( const Enable : Boolean; const Privilege : string ) : Boolean
679: Function EncodeDate( Year, Month, Day : Word ) : TDateTime
680: function EncodeDate(Year, Month, Day: Word): TDateTime;
681: Function EncodeDateDay( const AYear, ADayOfYear : Word ) : TDateTime
682: Function EncodeDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : TDateTime
683: Function EncodeDateTime( const AYear, AMonth, ADay, AHour, AMinute, ASecond, AMilliSecond: Word): TDateTime
684: Function EncodeDateWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
685: Function EncodeDayOfWeekInMonth( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word ) : TDateTime
686: Function EncodeString( s : string ) : string
687: Function DecodeString( s : string ) : string
688: Function EncodeTime( Hour, Min, Sec, MSec : Word ) : TDateTime
689: function EncodeTime(Hour, Min, Sec, MSec: Word): TDateTime;
690: Function EndIP : String
691: Function EndOfDay( const AYear, AMonth, ADay : Word ) : TDateTime;
692: Function EndOfDayAdayl( const AYear, ADayOfYear : Word ) : TDateTime;
693: Function EndOfAMonth( const AYear, AMonth : Word ) : TDateTime
694: Function EndOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
695: Function EndOfAYear( const AYear : Word ) : TDateTime
696: Function EndOfTheDay( const AValue : TDateTime ) : TDateTime
697: Function EndOfTheMonth( const AValue : TDateTime ) : TDateTime
698: Function EndOfTheWeek( const AValue : TDateTime ) : TDateTime
699: Function EndOfTheYear( const AValue : TDateTime ) : TDateTime
700: Function EndPeriod( const Period : Cardinal ) : Boolean
701: Function EndsStr( const ASubText, AText : string ) : Boolean

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702: Function EndsText( const ASubText, AText : string ) : Boolean
703: Function EnsureMsgIDBrackets( const AMsgID : String ) : String
704: Function EnsureRange( const AValue, AMin, AMax : Integer ) : Integer;
705: Function EnsureRangel( const AValue, AMin, AMax : Int64 ) : Int64;
706: Function EnsureRange2( const AValue, AMin, AMax : Double ) : Double;
707: Function EOF: boolean
708: Function EOln: boolean
709: Function EqualRect( const R1, R2 : TRect ) : Boolean
710: function EqualRect(const R1, R2: TRect): Boolean
711: Function Equals( Strings : TWideStrings ) : Boolean
712: function Equals(Strings: TStrings): Boolean;
713: Function EqualState( oState : TniRegularExpressionState ) : boolean
714: Function ErrOutput: Text)
715: function ExceptionParam: String;
716: function ExceptionPos: Cardinal;
717: function ExceptionProc: Cardinal;
718: function ExceptionToString(er: TIFEException; Param: String): String;
719: function ExceptionType: TIFEException;
720: Function ExcludeTrailingBackslash( S : string ) : string
721: function ExcludeTrailingBackslash(const S: string): string
722: Function ExcludeTrailingPathDelimiter( const APath : string ) : string
723: Function ExcludeTrailingPathDelimiter( S : string ) : string
724: function ExcludeTrailingPathDelimiter(const S: string): string
725: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): boolean;
726: Function ExecProc : Integer
727: Function ExecSQL : Integer
728: Function ExecSQL( ExecDirect : Boolean ) : Integer
729: Function Execute : _Recordset;
730: Function Execute : Boolean
731: Function Execute : Boolean;
732: Function Execute( const SQL : string; Params : TParams; Cache : Boolean; cursor : phDBICur ) : Integer
733: Function Execute( const SQL : WideString; Params : TParams; ResultSet : TPSResult ) : Integer
734: Function Execute( ParentWnd : HWND ) : Boolean
735: Function Execute1(constCommText:WideString;const CType:TCommType;const
    ExecuteOpts:TExecuteOpts):_Recordset;
736: Function Execute1( const Parameters : OleVariant ) : _Recordset;
737: Function Execute1( ParentWnd : HWND ) : Boolean;
738: Function Execute2( var RecordsAffected : Integer; const Parameters : OleVariant ) : _Recordset;
739: Function ExecuteAction( Action : TBasicAction ) : Boolean
740: Function ExecuteDirect( const SQL : WideString ) : Integer
741: Function ExecuteFile(const FileName:string;const Params:string;const DefDir:string;ShowCmd:Int):THandle
742: Procedure ExecuteThread2(afunc:TThreadFunction2;thrOK:boolean);AddTypeS('TThreadFunction2','procedure
743: Function CreateThread2(ThreadFunc: TThreadFunction2) : THandle
744: function ExeFileIsRunning(ExeFile: string): boolean;
745: function ExePath: string;
746: function ExePathName: string;
747: Function Exists( AItem : Pointer ) : Boolean
748: Function ExitWindows( ExitCode : Cardinal ) : Boolean
749: function Exp(x: Extended) : Extended;
750: Function ExpandEnvironmentVar( var Value : string ) : Boolean
751: Function ExpandFileName( FileName : string ) : string
752: function ExpandFileName(const FileName: string): string
753: Function ExpandUNCFileName( FileName : string ) : string
754: function ExpandUNCFileName(const FileName: string): string
755: Function ExpJ( const X : Float ) : Float;
756: Function Exsecans( X : Float ) : Float
757: Function Extract( const AByteCount : Integer ) : string
758: Function Extract( Item : TClass ) : TClass
759: Function Extract( Item : TComponent ) : TComponent
760: Function Extract( Item : TObject ) : TObject
761: Function ExtractFileDir( FileName : string ) : string
762: function ExtractFileDir(const FileName: string): string
763: Function ExtractFileDrive( FileName : string ) : string
764: function ExtractFileDrive(const FileName: string): string
765: Function ExtractFileExt( FileName : string ) : string
766: function ExtractFileExt(const FileName: string): string
767: Function ExtractFileExtNoDot( const FileName : string ) : string
768: Function ExtractFileExtNoDotUpper( const FileName : string ) : string
769: Function ExtractFileName( FileName : string ) : string
770: function ExtractFileName(const filename: string):string;
771: Function ExtractFilePath( FileName : string ) : string
772: function ExtractFilePath(const filename: string):string;
773: Function ExtractRelativePath( BaseName, DestName : string ) : string
774: function ExtractRelativePath(const BaseName: string; const DestName: string): string
775: Function ExtractShortPathName( FileName : string ) : string
776: function ExtractShortPathName(const FileName: string): string
777: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar;Strings: TStrings): Integer
778: function ExtractStrings(Separators:TSysCharSet;WhiteSpace:TSysCharSet;Content:PChar;Str:TStrings): Integer
779: Function Fact(numb: integer): Extended;
780: Function FactInt(numb: integer): int64;
781: Function Factorial( const N : Integer ) : Extended
782: Function FahrenheitToCelsius( const AValue : Double ) : Double
783: function FalseBoolStrs: array of string
784: Function Fetch(var AInput:string;const ADelim:string;const ADelete:Bool;const ACaseSensitive:Bool):string
785: Function FetchCaseInsensitive(var AInput:string; const ADelim:string; const ADelete:Boolean): string
786: Function Fibo(numb: integer): Extended;
787: Function FiboInt(numb: integer): Int64;
788: Function Fibonacci( const N : Integer ) : Integer
789: Function FIELDBYNAME( const FIELDNAME : STRING ) : TFIELD

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

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

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963: FUNCTION FormatInt64(i: int64): STRING;
964: Function FormatMaskText( const EditMask : string; const Value : string) : string
965: Function FormatValue( AValue : Cardinal) : string
966: Function FormatVersionString( const HiV, LoV : Word) : string;
967: Function FormatVersionString1( const Major, Minor, Build, Revision : Word) : string;
968: function Frac(X: Extended): Extended;
969: Function FreeResource( ResData : HGLOBAL) : LongBool
970: Function FromCommon( const AValue : Double) : Double
971: function FromCommon(const AValue: Double): Double;
972: Function FTPGMTDateToMLS( const ATimestamp : TDateTime; const AIncludeMSecs : Boolean) : String
973: Function FTPLocalDateToMLS( const ATimestamp : TDateTime; const AIncludeMSecs : Boolean) : String
974: Function FTPMLSToGMTDate( const ATimestamp : String) : TDateTime
975: Function FTPMLSToLocalDate( const ATimestamp : String) : TDateTime
976: Function FuncIn(AValue: Variant; ASet: Variant): Boolean;
977: //Function Funclist Size is: 6444 of mX3.9.8.9
978: Function FutureValue(const Rate:Extended;NPeriods:Integer;const Payment,PresentValue:Extended;PaymentTime: TPaymentTime):Extended
979: Function Gauss( const x, Spread : Double) : Double
980: function Gauss(const x,Spread: Double): Double;
981: Function GCD(x, y : LongInt) : LongInt;
982: Function GCDJ( X, Y : Cardinal) : Cardinal
983: Function GDAL: LongWord
984: Function GdiFlush : BOOL
985: Function GdiSetBatchLimit( Limit : DWORD) : DWORD
986: Function GdiGetBatchLimit : DWORD
987: Function GenerateHeader : TIIdHeaderList
988: Function GeometricMean( const X : TDynFloatArray) : Float
989: Function Get( AURL : string) : string;
990: Function Get2( AURL : string) : string;
991: Function Get8087CW : Word
992: function GetActiveOleObject(const ClassName: String): IDispatch;
993: Function GetAliasDriverName( const AliasName : string) : string
994: Function GetAPMBatteryFlag : TAPMBatteryFlag
995: Function GetAPMBatteryFullLifeTime : DWORD
996: Function GetAPMBatteryLifePercent : Integer
997: Function GetAPMBatteryLifeTime : DWORD
998: Function GetAPMLineStatus : TAPMLineStatus
999: Function GetAppdataFolder : string
1000: Function GetAppDispatcher : TComponent
1001: function GetArrayLength: integer;
1002: Function GetASCII: string;
1003: Function GetASCIILine: string;
1004: Function GetAsHandle( Format : Word) : THandle
1005: function GetAssociatedProgram(const Extension: string; var Filename, Description: string): boolean;
1006: Function GetBackupFileName( const FileName : string) : string
1007: Function GetBBitmap( Value : TBitmap) : TBitmap
1008: Function GetBIOSCopyright : string
1009: Function GetBIOSDate : TDateTime
1010: Function GetBIOSExtendedInfo : string
1011: Function GetBIOSName : string
1012: Function getBitmap(apath: string): TBitmap;
1013: Function GetBitmap( Index : Integer; Image : TBitmap) : Boolean //object
1014: Function getBitMapObject(const bitmappath: string): TBitmap;
1015: Function GetButtonState( Button : TPageScrollerButton) : TPageScrollerButtonState
1016: Function GetCapsLockKeyState : Boolean
1017: function GetCaptureControl: TControl;
1018: Function GetCDAudioTrackList( var TrackList : TJclCdTrackInfoArray; Drive : Char) : TJclCdTrackInfo;
1019: Function GetCDAudioTrackList1( TrackList : TStrings; IncludeTrackType : Boolean; Drive : Char) : string;
1020: Function GetCdInfo( InfoType : TJclCdMediaInfo; Drive : Char) : string
1021: Function GetChangedText( const Text : string; SelStart, SelLength : Integer; Key : Char) : string
1022: Function GetClientThread( ClientSocket : TServerClientWinSocket) : TServerClientThread
1023: Function GetClockValue : Int64
1024: function getCmdLine: PChar;
1025: function getCmdShow: Integer;
1026: function GetCPUSpeed: Double;
1027: Function GetColField( DataCol : Integer) : TField
1028: Function GetColorBlue( const Color : TColor) : Byte
1029: Function GetColorFlag( const Color : TColor) : Byte
1030: Function GetColorGreen( const Color : TColor) : Byte
1031: Function GetColorRed( const Color : TColor) : Byte
1032: Function GetComCtrlVersion : Integer
1033: Function GetComPorts: TStringlist;
1034: Function GetCommonAppdataFolder : string
1035: Function GetCommonDesktopdirectoryFolder : string
1036: Function GetCommonFavoritesFolder : string
1037: Function GetCommonFilesFolder : string
1038: Function GetCommonProgramsFolder : string
1039: Function GetCommonStartmenuFolder : string
1040: Function GetCommonStartupFolder : string
1041: Function GetComponent( Owner, Parent : TComponent) : TComponent
1042: Function GetConnectionRegistryFile( DesignMode : Boolean) : string
1043: Function GetCookiesFolder : string
1044: Function GetCPUSpeed( var CpuSpeed : TFreqInfo) : Boolean
1045: Function GetCurrent : TFavoriteLinkItem
1046: Function GetCurrent : TListItem
1047: Function GetCurrent : TTaskDialogBaseButtonItem
1048: Function GetCurrent : TToolButton
1049: Function GetCurrent : TTreeNode
1050: Function GetCurrent : WideString

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

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1140: Function GETIMAGELIST : TCUSTOMIMAGELIST
1141: Function GetIncome( const aNetto : Currency ) : Currency
1142: Function GetIncome( const aNetto : Extended ) : Extended
1143: Function GetIncome( const aNetto : Extended ) : Extended
1144: Function GetIncome( const aNetto : Extended ) : Extended
1145: function GetIncome( const aNetto : Currency ) : Currency
1146: Function GetIncome2( const aNetto : Currency ) : Currency
1147: Function GetIncome2( const aNetto : Currency ) : Currency
1148: Function getIndex_Attrs( tag : string; var idx : Integer; var Attrs : string ) : string
1149: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : BOOLEAN ) : TINDEXDEF
1150: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet ) : TIndexDef
1151: Function GetInstRes( Instance:THandle;ResType:TResType;const
Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor ):Boolean;
1152: Function
GetInstRes1( Instance:THandle;ResType:TResType;ResID:DWORD;Width:Int;LoadFlags:TLoadResources;MaskColor:TColor ):Bool;
1153: Function GetIntelCacheDescription( const D : Byte ) : string
1154: Function GetInteractiveUserName : string
1155: Function GetInternetCacheFolder : string
1156: Function GetInternetFormattedFileTimeStamp( const AFilename : String ) : String
1157: Function GetIPAddress( const HostName : string ) : string
1158: Function GetIP( const HostName : string ) : string
1159: Function GetIPHostByName( const AComputerName: String): String;
1160: Function GetIsAdmin: Boolean;
1161: Function GetItem( X, Y : Integer ) : LongInt
1162: Function GetItemAt( X, Y : Integer ) : TListItem
1163: Function GetItemHeight(Font: TFont): Integer;
1164: Function GetItemPath( Index : Integer ) : string
1165: Function GetKeyFieldNames( List : TStrings ) : Integer;
1166: Function GetKeyFieldNames1( List : TWideStrings ) : Integer;
1167: Function GetKeyState( const VirtualKey : Cardinal ) : Boolean
1168: Function GetLastChild : LongInt
1169: Function GetLastChild : TTreeNode
1170: Function GetLastDelimitedToken( const cDelim : char; const cStr : string ) : string
1171: function GetLastError: Integer
1172: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1173: Function GetLoader( Ext : string ) : TBitmapLoader
1174: Function GetLoadFilter : string
1175: Function GetLocalComputerName : string
1176: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char ) : Char
1177: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string ) : string
1178: Function GetLocalUserName : WideString
1180: function getLongDayNames: string)
1181: Function GetLongHint(const hint: string): string
1182: function getLongMonthNames: string)
1183: Function GetMacAddresses( const Machine : string; const Addresses : TStrings ) : Integer
1184: Function GetMainAppWndFromPid( PID : DWORD ) : HWND
1185: Function GetMaskBitmap : HBITMAP
1186: Function GetMaxAppAddress : Integer
1187: Function GetMciErrorMessage( const MciErrNo : MCIERROR ) : string
1188: Function GetMemoryLoad : Byte
1189: Function GetMIMEDefaultFileExt( const MIMEType : string ) : TIdFileName
1190: Function GetMIMETypeFromFile( const AFile : string ) : string
1191: Function GetMIMETypeFromfile( const AFile : TIdFileName ) : string
1192: Function GetMinAppAddress : Integer
1193: Function GetModule : TComponent
1194: Function GetModuleHandle( ModuleName : PChar ) : HMODULE
1195: Function GetModuleName( Module : HMODULE ) : string
1196: Function GetModulePath( const Module : HMODULE ) : string
1197: Function GetModuleFileName(Module: Integer; Filename: PChar;Size: Integer): Integer; stdcall;
1198: Function GetCommandLine: PChar; stdcall;
1199: Function GetMonochromeBitmap( Value : TBitmap ) : TBitmap
1200: Function GetMultiN(aval: integer): string;
1201: Function GetName : String
1202: Function GetNearestItem( Point : TPoint; Direction : TSearchDirection ) : TListItem
1203: Function GetNethoodFolder : string
1204: Function GetNext : TTreeNode
1205: Function GetNextChild( Value : LongInt ) : LongInt
1206: Function GetNextChild( Value : TTreeNode ) : TTreeNode
1207: Function GetNextDelimitedToken( const cDelim : char; var cStr : String ) : String
1208: Function GetNextItem( StartItem: TListItem;Direction:TSearchDirection;States:TItemStates ) : TListItem
1209: Function GetNextPacket : Integer
1210: Function getNextSibling : TTreeNode
1211: Function GetNextVisible : TTreeNode
1212: Function GetNode( ItemId : HTreeItem ) : TTreeNode
1213: Function GetNodeAt( X, Y : Integer ) : TTreeNode
1214: Function GetNodeDisplayWidth( Node : TOOutlineNode ) : Integer
1215: function GetNumberOfProcessors: longint;
1216: Function GetNumLockKeyState : Boolean
1217: Function GetObjectProperty( Instance : TPersistent; const PropName : string ) : TObject
1218: Function GetOnlyTransitionOn( cChar : char ) : TniRegularExpressionState
1219: Function GetOptionalParam( const ParamName : string ) : OleVariant
1220: Function GetOSName: string;
1221: Function GetOSVersion: string;
1222: Function GetOSNumber: string;
1223: Function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
1224: Function GetPackageModuleHandle( PackageName : PChar ) : HMODULE
1225: function GetPageSize: Cardinal;
1226: Function GetParameterFileName : string

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1227: Function GetParams( var OwnerData : OleVariant ) : OleVariant
1228: Function GETPARENTCOMPONENT : TCOMPONENT
1229: Function GetParentForm(control: TControl): TForm
1230: Function GETPARENTMENU : TMENU
1231: Function GetPassword : Boolean
1232: Function GetPassword : string
1233: Function GetPersonalFolder : string
1234: Function GetPidFromProcessName( const ProcessName : string ) : DWORD
1235: Function GetPosition : TPoint
1236: Function GetPrev : TTreeNode
1237: Function GetPrevChild( Value : LongInt ) : LongInt
1238: Function GetPrevChild( Value : TTreeNode ) : TTreeNode
1239: Function getPrevSibling : TTreeNode
1240: Function GetPrevVisible : TTreeNode
1241: Function GetPrinthoodFolder : string
1242: Function GetPrivilegeDisplayName( const PrivilegeName : string ) : string
1243: Function getProcessList: TStringList;
1244: Function GetProcessId : TIdPID
1245: Function GetProcessNameFromPid( PID : DWORD ) : string
1246: Function GetProcessNameFromWnd( Wnd : HWND ) : string
1247: Function GetProcessMemoryInfo(Process: THandle;ppsmemCounters: TProcessMemoryCounters;cb: DWORD):BOOL
1248: Function getProcessAllMemory(ProcessID : DWORD): TProcessMemoryCounters;
1249: Function getProcessMemoryInfo2(ProcessID : DWORD): TProcessMemoryCounters;
1250: Function GetProgramFilesFolder : string
1251: Function GetProgramsFolder : string
1252: Function GetProxy : string
1253: Function GetQuoteChar : WideString
1254: Function GetQrCode4(Width,Height:Word; Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1255: Function GetQrCodetoFile(Width,Height:Word;Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1256: Function GetRate : Double
1257: Function getPerfTime: string;
1258: Function getRuntime: string;
1259: Function GetRBitmap( Value : TBitmap ) : TBitmap
1260: Function GetReadableName( const AName : string ) : string
1261: Function GetRecentDocs : TStringList
1262: Function GetRecentFolder : string
1263: Function GetRecords( Count : Integer; out RecsOut : Integer; Options : Integer ) : OleVariant;
1264: Function GetRecords1(Count:Integer; out RecsOut:Integer;Options:Integer;const CommandText:WideString;var Params, OwnerData : OleVariant) : OleVariant;
1265: Function GetRecordset( const CommandText : WideString; ConnectionString : WideString ) : _Recordset
1266: Function GetRegisteredCompany : string
1267: Function GetRegisteredOwner : string
1268: Function GetResource(ResType:TResType;const Name:string;Width:Int;LoadFlags:TLoadResources;MaskColor:TColor:Bool
1269: Function GetResourceName( ObjStream : TStream; var AName : string ) : Boolean
1270: Function GetResponse( const AAllowedResponses : array of SmallInt ) : SmallInt;
1271: Function GetResponse1( const AAllowedResponse : SmallInt ) : SmallInt;
1272: Function GetRValue( rgb : DWORD ) : Byte
1273: Function GetGValue( rgb : DWORD ) : Byte
1274: Function GetBValue( rgb : DWORD ) : Byte
1275: Function GetCValue( cmyk : COLORREF ) : Byte
1276: Function GetMValue( cmyk : COLORREF ) : Byte
1277: Function GetYValue( cmyk : COLORREF ) : Byte
1278: Function GetKValue( cmyk : COLORREF ) : Byte
1279: Function CMYK( c, m, y, k : Byte ) : COLORREF
1280: Function GetOSName: string;
1281: Function GetProcAddress( hModule : HMODULE; lpProcName : LPCSTR ) : FARPROC
1282: Function GetProcAddress(Module : HMODULE; Proc : PChar): Dword
1283: Function GetSafeCallExceptionMsg : String
1284: Function GetSaturationBitmap( Value : TBitmap ) : TBitmap
1285: Function GetSaveFilter : string
1286: Function GetSaver( Ext : string ) : TBitmapLoader
1287: Function GetScrollLockKeyState : Boolean
1288: Function GetSearchString : string
1289: Function GetSelections( Alist : TList ) : TTreeNode
1290: function GETSELTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1291: Function GetSendToFolder : string
1292: Function GetServer : IAppServer
1293: Function GetServerList : OleVariant
1294: Function GetShadowColor( const Color : TColor; Luminance : Integer ) : TColor
1295: Function GetShellProcessHandle : THandle
1296: Function GetShellProcessName : string
1297: Function GetShellVersion : Cardinal
1298: function getShortDayNames: string)
1299: Function GetShortHint(const hint: string): string
1300: function getShortMonthNames: string)
1301: Function GetSizeOfFile( const FileName : string ) : Int64;
1302: Function GetSizeOfFile1( Handle : THandle ) : Int64;
1303: Function GetStdHandle(nStdHandle: Integer): Integer; stdcall;
1304: Function GetStartmenuFolder : string
1305: Function GetStartupFolder : string
1306: Function GetStringProperty( Instance : TPersistent; const PropName : string ) : WideString
1307: Function GetSuccessor( cChar : char ) : TniRegularExpressionState
1308: Function GetSwapFileSize : Integer
1309: Function GetSwapFileUsage : Integer
1310: Function GetSystemLocale : TIdCharSet
1311: Function GetSystemMetrics( nIndex : Integer ) : Integer

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1312: Function GetSystemPathSH(Folder: Integer): TFilename ;
1313: Function GetTableNameFromQuery( const SQL : Widestring) : Widestring
1314: Function GetTableNameFromSQL( const SQL : WideString) : WideString
1315: Function GetTableNameFromSQLEX( const SQL : WideString; IdOption : IDENTIFEROPTION) : WideString
1316: Function GetTasksList( const List : TStrings) : Boolean
1317: Function getTeamViewerID: string;
1318: Function GetTemplatesFolder : string
1319: Function GetText : PwideChar
1320: function GetText:PChar
1321: Function GetTextBuf( Buffer : PChar; BufSize : Integer) : Integer
1322: function GETTEXTBUF(BUFFER:PCHAR;BUFSIZE:INTEGER):INTEGER
1323: Function GetTextItem( const Value : string) : Longint
1324: function GETTEXTLEN:INTEGER
1325: Function GetThreadLocale: Longint; stdcall
1326: Function GetCurrentThreadId: LongWord; stdcall;
1327: Function GetTickCount : Cardinal
1328: Function GetTickDiff( const AOldTickCount, ANewTickCount : Cardinal) : Cardinal
1329: Function GetTicketNr : longint
1330: Function GetTime : Cardinal
1331: Function GetTime : TDateTime
1332: Function GetTimeout : Integer
1333: Function GetTimeStr: String
1334: Function GetTimeString: String
1335: Function GetTodayFiles(startdir, amask: string): TStringlist;
1336: Function getTokenCounts : integer
1337: Function GetTotalPageFileMemory : Integer
1338: Function GetTotalPhysicalMemory : Integer
1339: Function GetTotalVirtualMemory : Integer
1340: Function GetUniqueFileName( const APath, APrefix, AExt : String) : String
1341: Function GetUseNowForDate : Boolean
1342: Function GetUserDomainName( const CurUser : string) : string
1343: Function GetUserName : string
1344: Function GetUserName: string;
1345: Function GetUserObjectName( hUserObject : THandle) : string
1346: Function GetValueBitmap( Value : TBitmap) : TBitmap
1347: Function GetValueMSec : Cardinal
1348: Function GetValueStr : String
1349: Function GetVersion: int;
1350: Function GetVersionString(FileName: string): string;
1351: Function getVideoDrivers: string;
1352: Function GetVisibleNode( Index : LongInt) : TOutlineNode
1353: Function GetVolumeFileSystem( const Drive : string) : string
1354: Function GetVolumeName( const Drive : string) : string
1355: Function GetVolumeSerialNumber( const Drive : string) : string
1356: Function GetWebAppServices : IWebAppServices
1357: Function GetWebRequestHandler : IWebRequestHandler
1358: Function GetWindowCaption( Wnd : HWND) : string
1359: Function GetWindowDC(hwnd: HWND): HDC;
1360: Function GetWindowIcon( Wnd : HWND; LargeIcon : Boolean) : HICON
1361: Function GetWindowRect(hwnd: HWND; arect: TRect): Boolean
1362: Function GetWindowsComputerID : string
1363: function GetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
1364: Function GetWindowsFolder : string
1365: Function GetWindowsServicePackVersion : Integer
1366: Function GetWindowsServicePackVersionString : string
1367: Function GetWindowsSystemFolder : string
1368: Function GetWindowsTempFolder : string
1369: Function GetWindowsUserID : string
1370: Function GetWindowsVersion : TWindowsVersion
1371: Function GetWindowsVersionString : string
1372: Function GmtOffsetStrToDateTIme( S : string) : TDateTime
1373: Function GMTToLocalDateTIme( S : string) : TDateTime
1374: Function GotoKey : Boolean
1375: Function GradToCycle( const Grads : Extended) : Extended
1376: Function GradToDeg( const Grads : Extended) : Extended
1377: Function GradToDeg( const Value : Extended) : Extended;
1378: Function GradToDeg1( const Value : Double) : Double;
1379: Function GradToDeg2( const Value : Single) : Single;
1380: Function GradToRad( const Grads : Extended) : Extended
1381: Function GradToRad( const Value : Extended) : Extended;
1382: Function GradToRad1( const Value : Double) : Double;
1383: Function GradToRad2( const Value : Single) : Single;
1384: Function Gray32( const Intensity : Byte; const Alpha : Byte) : TColor32
1385: Function GreenComponent( const Color32 : TColor32) : Integer
1386: function GUIDToString(const GUID: TGUID): string)
1387: Function HandleAllocated : Boolean
1388: function HandleAllocated: Boolean;
1389: Function HandleRequest : Boolean
1390: Function HandleRequest( Request : TWebRequest; Response : TWebResponse) : Boolean
1391: Function HarmonicMean( const X : TDynFloatArray) : Float
1392: Function HasAsParent( Value : TTreeNode) : Boolean
1393: Function HASCHILDDEFS : BOOLEAN
1394: Function HasCurValues : Boolean
1395: Function HasExtendCharacter( const s : UTF8String) : Boolean
1396: Function HasFormat( Format : Word) : Boolean
1397: Function HashValue( AStream : TStream) : T5x4LongWordRecord;
1398: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1399: Function HashValue(AStream: TStream): LongWord
1400: Function HashValue(AStream: TStream): Word

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1401: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64) : T5x4LongWordRecord;
1402: Function HashValue1(AStream : TStream): T4x4LongWordRecord;
1403: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1404: Function HashValue128Stream(AStream: TStream): T4x4LongWordRecord;
1405: Function HashValue16( const ASrc : string) : Word;
1406: Function HashValue16Stream( AStream : TStream) : Word;
1407: Function HashValue32( const ASrc : string) : LongWord;
1408: Function HashValue32Stream( AStream : TStream) : LongWord;
1409: Function HasMergeConflicts : Boolean;
1410: Function hasMoreTokens : boolean;
1411: Function HASPARENT : BOOLEAN;
1412: function HasParent: Boolean;
1413: Function HasTransaction( Transaction : TDBXTransaction) : Boolean;
1414: Function HasUTF8BOM( S : TStream) : boolean;
1415: Function HasUTF8BOM1( S : AnsiString) : boolean;
1416: Function Haversine( X : Float) : Float;
1417: Function Head( s : string; const subs : string; var tail : string) : string;
1418: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN;
1419: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN;
1420: function HELPJUMP(JUMPID:STRING):BOOLEAN;
1421: Function HeronianMean( const a, b : Float) : Float;
1422: function HexStrToStr(Value: string): string;
1423: function HexToBin(Text,Buffer:PChar; Bufsize:Integer):Integer;
1424: function HexToBin2(HexNum: string): string;
1425: Function Hex.ToDouble( const Hex : string) : Double;
1426: function HexToInt(hexnum: string): LongInt;
1427: function HexToStr(Value: string): string;
1428: Function HexifyBlock( var Buffer, BufferSize : Integer) : string;
1429: function Hi(vdat: word): byte;
1430: function HiByte(W: Word): Byte;
1431: function High: Int64;
1432: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean;
1433: function HINSTANCE: longword;
1434: function HiWord(l: DWORD): Word;
1435: function HMODULE: longword;
1436: Function HourOf( const AValue : TDateTime) : Word;
1437: Function HourOfTheDay( const AValue : TDateTime) : Word;
1438: Function HourOfTheMonth( const AValue : TDateTime) : Word;
1439: Function HourOfTheWeek( const AValue : TDateTime) : Word;
1440: Function HourOfTheYear( const AValue : TDateTime) : Word;
1441: Function HoursBetween( const ANow, AThen : TDateTime) : Int64;
1442: Function HourSpan( const ANow, AThen : TDateTime) : Double;
1443: Function HSLTtoRGB1( const H, S, L : Single) : TColor32;
1444: Function HTMLDecode( const AStr : String) : String;
1445: Function HTMLEncode( const AStr : String) : String;
1446: Function HTMLEscape( const Str : string) : string;
1447: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer) : string;
1448: Function HTTPDecode( const AStr : String) : string;
1449: Function HTTPEncode( const AStr : String) : string;
1450: Function Hypot( const X, Y : Extended) : Extended;
1451: Function IBMax( n1, n2 : Integer) : Integer;
1452: Function IBMin( n1, n2 : Integer) : Integer;
1453: Function IBRandomString( iLength : Integer) : String;
1454: Function IBRandomInteger( iLow, iHigh : Integer) : Integer;
1455: Function IBStripString( st : String; CharsToStrip : String) : String;
1456: Function IBFormatIdentifier( Dialect : Integer; Value : String) : String;
1457: Function IBFormatIdentifierValue( Dialect : Integer; Value : String) : String;
1458: Function IBExtractIdentifier( Dialect : Integer; Value : String) : String;
1459: Function IBQuoteIdentifier( Dialect : Integer; Value : String) : String;
1460: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1461: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1462: Function RandomString( iLength : Integer) : String';
1463: Function RandomInteger( iLow, iHigh : Integer) : Integer';
1464: Function StripString( st : String; CharsToStrip : String) : String';
1465: Function FormatIdentifier( Dialect : Integer; Value : String) : String';
1466: Function FormatIdentifierValue( Dialect : Integer; Value : String) : String';
1467: Function ExtractIdentifier( Dialect : Integer; Value : String) : String';
1468: Function QuoteIdentifier( Dialect : Integer; Value : String) : String';
1469: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1470: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1471: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLToken): TSQLToken;
1472: Function IconToBitmap( Ico : HICON) : TBitmap;
1473: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor) : TBitmap;
1474: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor) : TBitmap;
1475: function IdentToCharset(const Ident: string; var Charset: Longint): Boolean;
1476: function IdentToColor(const Ident: string; var Color: Longint): Boolean;
1477: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1478: Function IdGetDefaultCharSet : TIdCharSet;
1479: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant;
1480: Function IdPorts2 : TStringList;
1481: Function IdToMib( const Id : string) : string;
1482: Function IdSHA1Hash(apath: string): string;
1483: Function IdHashSHA1(apath: string): string;
1484: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string) : string;
1485: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string) : string;
1486: Function IfThenInt( AValue : Boolean; const ATrue : integer; AFalse : integer): integer';
1487: Function IfThenDouble( AValue : Boolean; const ATrue : double; AFalse : double): double';
1488: Function IfThenBool( AValue : Boolean; const ATrue : boolean; AFalse : boolean): boolean';
1489: Function iifl( ATest : Boolean; const ATrue : Integer; const AFalse : Integer) : Integer;

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1490: Function iif2( ATest : Boolean; const ATrue : string; const AFalse : string) : string;
1491: Function iif3( ATest : Boolean; const ATrue : Boolean; const AFalse : Boolean) : Boolean;
1492: function ImportTest(S1: string;s2:longint; s3:Byte; s4:word; var s5:string): string;
1493: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer) : TDateTime
1494: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64) : TDateTime
1495: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte) : Byte;
1496: Function IncLimit1( var B : Shortint; const Limit : Shortint; const Incr : Shortint) : Shortint;
1497: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint) : Smallint;
1498: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word) : Word;
1499: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer) : Integer;
1500: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal) : Cardinal;
1501: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64) : Int64;
1502: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte) : Byte;
1503: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint) : Shortint;
1504: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint) : Smallint;
1505: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word) : Word;
1506: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer) : Integer;
1507: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal) : Cardinal;
1508: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64) : Int64;
1509: Function IncludeTrailingBackslash( S : string) : string
1510: function IncludeTrailingBackslash(const S: string): string
1511: Function IncludeTrailingPathDelimiter( const APath : string) : string
1512: Function IncludeTrailingPathDelimiter( S : string) : string
1513: function IncludeTrailingPathDelimiter(const S: string): string
1514: Function IncludeTrailingSlash( const APath : string) : string
1515: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64) : TDateTime
1516: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64) : TDateTime
1517: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer) : TDateTime
1518: function IncMonth(const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1519: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64) : TDateTime
1520: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer) : TDateTime
1521: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer) : TDateTime
1522: Function IndexOf( AClass : TClass) : Integer
1523: Function IndexOf( AComponent : TComponent) : Integer
1524: Function IndexOf( AObject : TObject) : Integer
1525: Function INDEXOF( const ANAME : String) : INTEGER
1526: Function IndexOf( const DisplayName : string) : Integer
1527: Function IndexOf( const Item : TBookmarkStr) : Integer
1528: Function IndexOf( const S : WideString) : Integer
1529: Function IndexOf( const View : TJclFileMappingView) : Integer
1530: Function INDEXOF( FIELD : TFIELD) : INTEGER
1531: Function IndexOf( ID : LCID) : Integer
1532: Function INDEXOF( ITEM : TMENUITEM) : INTEGER
1533: Function IndexOf( Value : TListItem) : Integer
1534: Function IndexOf( Value : TTreeNode) : Integer
1535: function IndexOf(const S: string): Integer;
1536: Function IndexOfName( const Name : WideString) : Integer
1537: function IndexOfName(Name: string): Integer;
1538: Function IndexOfObject( AObject : TObject) : Integer
1539: function IndexOfObject(Aobject:tObject):Integer
1540: Function IndexOfTabAt( X, Y : Integer) : Integer
1541: Function IndexStr( const AText : string; const AValues : array of string) : Integer
1542: Function IndexText( const AText : string; const AValues : array of string) : Integer
1543: Function IndexOfInteger( AList : TStringList; Value : Variant) : Integer
1544: Function IndexOfFloat( AList : TStringList; Value : Variant) : Integer
1545: Function IndexOfDate( Alist : TStringList; Value : Variant) : Integer
1546: Function IndexOfString( Alist : TStringList; Value : Variant) : Integer
1547: Function IndyCompareStr( const A1 : string; const A2 : string) : Integer
1548: Function IndyGetHostName : string
1549: Function IndyInterlockedDecrement( var I : Integer) : Integer
1550: Function IndyInterlockedExchange( var A : Integer; B : Integer) : Integer
1551: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer) : Integer
1552: Function IndyInterlockedIncrement( var I : Integer) : Integer
1553: Function IndyLowerCase( const A1 : string) : string
1554: Function IndyStrToBool( const AString : String) : Boolean
1555: Function IndyUpperCase( const A1 : string) : string
1556: Function InitCommonControl( CC : Integer) : Boolean
1557: Function InitTempPath : string
1558: Function InMainThread : boolean
1559: Function inOpArray( W : WideChar; sets : array of WideChar) : boolean
1560: Function Input: Text)
1561: Function InputBox( const ACaption, APrompt, ADefault : string) : string
1562: function InputBox(const ACaption: string; const APrompt: string; const ADefault: string): string
1563: Function InputLn(const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1564: Function InputQuery( const ACaption, APrompt : string; var Value : string) : Boolean
1565: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1566: Function InquireSignal( RtlSigNum: Integer) : TSignalState
1567: Function InRangeR( const A, Min, Max : Double) : Boolean
1568: function Insert( Index : Integer) : TCollectionItem
1569: Function Insert( Index : Integer) : TComboExItem
1570: Function Insert( Index : Integer) : THeaderSection
1571: Function Insert( Index : Integer) : TListItem
1572: Function Insert( Index : Integer) : TStatusPanel
1573: Function Insert( Index : Integer) : TWorkArea
1574: Function Insert( Index : LongInt; const Text : string) : LongInt
1575: Function Insert( Sibling : TTreeNode; const S : string) : TTreeNode
1576: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM) : INTEGER
1577: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM) : INTEGER
1578: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode

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1579: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
1580: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
1581: Function Instance : Longint
1582: function InstanceSize: Longint
1583: Function Int(e : Extended) : Extended;
1584: function Int64ToStr(i: Int64): String;
1585: Function IntegerToBcd( const AValue : Integer) : TBcd
1586: Function Intensity( const Color32 : TColor32) : Integer;
1587: Function Intensity( const R, G, B : Single) : Single;
1588: Function InterestPayment(const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1589: Function InterestRate(NPeriods:Integer;const Payment,PresVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
1590: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1591: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1592: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1593: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1594: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1595: Function IntMibToStr( const Value : string) : string
1596: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1597: Function IntToBin( Value : cardinal) : string
1598: Function IntToHex( Value : Integer; Digits : Integer) : string;
1599: function IntToHex(a: integer; b: integer): string;
1600: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1601: function IntToHex64(Value: Int64; Digits: Integer): string)
1602: Function IntTo3Str( Value : Longint; separator: string) : string
1603: Function inttobool( aInt : LongInt) : Boolean
1604: function IntToStr(i: Int64): String;
1605: Function IntToStr64(Value: Int64): string)
1606: function IOResult: Integer
1607: Function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1608: Function IsAccel(VK: Word; const Str: string): Boolean
1609: Function IsAddressInNetwork( Address : String) : Boolean
1610: Function IsAdministrator : Boolean
1611: Function IsAlias( const Name : string) : Boolean
1612: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1613: Function IsASCII( const AByte : Byte) : Boolean;
1614: Function IsASCIILDH( const AByte : Byte) : Boolean;
1615: Function IsAssembly(const FileName: string): Boolean;
1616: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1617: Function IsBinary(const AChar : Char) : Boolean
1618: function IsConsole: Boolean)
1619: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1620: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean
1621: Function IsDelphiDesignMode : boolean
1622: Function IsDelphiRunning : boolean
1623: Function IsDFAState : boolean
1624: Function IsDirectory( const FileName : string) : Boolean
1625: Function IsDomain( const S : String) : Boolean
1626: function IsDragObject(Sender: TObject): Boolean;
1627: Function IsEditing : Boolean
1628: Function ISEMPTY : BOOLEAN
1629: Function IsEqual( Value : TParameters) : Boolean
1630: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1631: function IsEqualGUID(const guid1, guid2: TGUID): Boolean
1632: Function IsFirstNode : Boolean
1633: Function IsFloatZero( const X : Float) : Boolean
1634: Function IsFormatRegistered( Extension, AppID : string) : Boolean
1635: Function IsFormOpen(const FormName: string): Boolean;
1636: Function IsFQDN( const S : String) : Boolean
1637: Function IsGrayScale : Boolean
1638: Function IsHex( AChar : Char) : Boolean;
1639: Function IsHexString(const AString: string): Boolean;
1640: Function IsHostname( const S : String) : Boolean
1641: Function IsInfinite( const AValue : Double) : Boolean
1642: Function IsInLeapYear( const AValue : TDateTime) : Boolean
1643: Function IsInternet: boolean;
1644: Function IsLeadChar( ACh : Char) : Boolean
1645: Function IsLeapYear( Year : Word) : Boolean
1646: function IsLeapYear(Year: Word): Boolean)
1647: function IsLibrary: Boolean)
1648: Function ISLINE : BOOLEAN
1649: Function IsLinkedTo( DataSet : TDataSet) : Boolean
1650: Function ISLINKEDTO( DATASOURCE : TDATASOURCE) : BOOLEAN
1651: Function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1652: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1653: Function IsMainAppWindow( Wnd : HWND) : Boolean
1654: Function IsMediaPresentInDrive( Drive : Char) : Boolean
1655: function IsMemoryManagerSet: Boolean)
1656: Function IsMultiTableQuery( const SQL : WideString) : Boolean
1657: function IsMultiThread: Boolean)
1658: Function IsNumeric( AChar : Char) : Boolean;
1659: Function IsNumeric2( const AString : string) : Boolean;
1660: Function IsNTFS: Boolean;
1661: Function IsOctal( AChar : Char) : Boolean;
1662: Function IsOctalString(const AString: string): Boolean;
1663: Function IsPathDelimiter( S : string; Index : Integer) : Boolean
1664: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1665: Function IsPM( const AValue : TDateTime) : Boolean

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1666: Function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1667: Function IsPortAvailable( ComNum : Cardinal) : Boolean';
1668: Function IsCOMPortReal( ComNum : Cardinal) : Boolean';
1669: Function IsCOM( ComNum : Cardinal) : Boolean';
1670: Function IsCOMPort: Boolean';
1671: Function IsPrimeFactor( const F, N : Cardinal) : Boolean
1672: Function IsPrimerM( N : Cardinal) : Boolean //rabin miller
1673: Function IsPrimeTD( N : Cardinal) : Boolean //trial division
1674: Function IsPrivilegeEnabled( const Privilege : string) : Boolean
1675: Function ISqrt( const I : Smallint) : Smallint
1676: Function IsReadOnly(const Filename: string): boolean;
1677: Function IsRectEmpty( const Rect : TRect) : Boolean
1678: function IsRectEmpty( const Rect: TRect): Boolean
1679: Function IsRelativePrime( const X, Y : Cardinal) : Boolean
1680: Function ISRIGHTTOLEFT : BOOLEAN
1681: function IsRightToLeft: Boolean
1682: Function IsSameDay( const AValue, ABasis : TDateTime) : Boolean
1683: Function ISSEQUENCED : BOOLEAN
1684: Function IsSystemModule( const Module : HMODULE) : Boolean
1685: Function IsSystemResourcesMeterPresent : Boolean
1686: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
1687: Function IsToday( const AValue : TDateTime) : Boolean
1688: function IsToday(const AValue: TDateTime): Boolean;
1689: Function IsTopDomain( const AStr : string) : Boolean
1690: Function IsUTF8LeadByte( Lead : Char) : Boolean
1691: Function IsUTF8String( const s : UTF8String) : Boolean
1692: Function IsUTF8TrailByte( Lead : Char) : Boolean
1693: Function ISVALIDCHAR( INPUTCHAR : CHAR) : BOOLEAN
1694: Function IsValidDate( const AYear, AMonth, ADay : Word) : Boolean
1695: Function IsValidDateDay( const AYear, ADayOfYear : Word) : Boolean
1696: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word) : Boolean
1697: Function IsValidDateTime(const AYear,AMonth, ADay,AHour,AMinute, ASecond, AMillisecond: Word): Boolean
1698: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word) : Boolean
1699: Function IsValidIdent( Ident : string) : Boolean
1700: function IsValidIdent(const Ident: string; AllowDots: Boolean): Boolean
1701: Function IsValidIP( const S : String) : Boolean
1702: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word) : Boolean
1703: Function IsValidISBN( const ISBN : AnsiString) : Boolean
1704: Function IsVariantManagerSet: Boolean; //deprecated;
1705: Function IsVirtualPcGuest : Boolean;
1706: Function IsVmWareGuest : Boolean;
1707: Function IsVCLControl(Handle: HWnd): Boolean;
1708: Function IsWhiteString( const AStr : String) : Boolean
1709: Function IsWindowResponding( Wnd : HWND; Timeout : Integer) : Boolean
1710: Function IsWoW64: boolean;
1711: Function IsWin64: boolean;
1712: Function IsWow64String(var s: string): Boolean;
1713: Function IsWin64String(var s: string): Boolean;
1714: Function IsWindowsVista: boolean;
1715: Function isPowerof2(num: int64): boolean;
1716: Function powerOf2(exponent: integer): int64;
1717: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1718: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1719: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1720: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1721: function ITEMATPOS(POS:TPOINT:EXISTING:BOOLEAN):INTEGER
1722: Function ItemRect( Index : Integer) : TRect
1723: function ITEMRECT(INDEX:INTEGER):TRECT
1724: Function ItemWidth( Index : Integer) : Integer
1725: Function JavahashCode(val: string): Integer;
1726: Function JosephusG(n,k: integer; var graphout: string): integer;
1727: Function JulianDateToDate( const AValue : Double) : TDateTime
1728: Function JustName(PathName : string) : string; //in path and ext
1729: Function JvMessageBox( const Text, Caption : string; Flags : DWORD) : Integer;
1730: Function JvMessageBox1( const Text : string; Flags : DWORD) : Integer;
1731: Function Keepalive : Boolean
1732: Function KeysToShiftState(Keys: Word): TShiftState;
1733: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1734: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1735: Function KeyboardStateToShiftState: TShiftState; overload;
1736: Function Languages : TLanguages
1737: Function Last : TClass
1738: Function Last : TComponent
1739: Function Last : TObject
1740: Function LastDelimiter( Delimiters, S : string) : Integer
1741: function LastDelimiter(const Delimiters: string; const S: string): Integer
1742: Function LastPos( const ASubstr : string; const AStr : string) : Integer
1743: Function Latitude2WGS84(lat: double): double;
1744: Function LCM(m,n:longint):longint;
1745: Function LCMJ( const X, Y : Cardinal) : Cardinal
1746: Function Ldexp( const X : Extended; const P : Integer) : Extended
1747: Function LeftStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
1748: Function LeftStr( const AText : WideString; const ACount : Integer) : WideString;
1749: function Length: Integer;
1750: Procedure LetfileList(FileList: TStringlist; apath: string);
1751: function lengthmp3(mp3path: string):integer;
1752: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect) : Boolean;
1753: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1754: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint; L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean

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1755: function LineStart(Buffer, BufPos: PChar): PChar
1756: function LineStart(Buffer, BufPos: PChar): PChar
1757: function ListSeparator: char;
1758: function Ln(x: Extended): Extended;
1759: Function LnXP1( const X : Extended) : Extended
1760: function Lo(vdat: word): byte;
1761: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1762: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1763: Function LoadFileAsString( const FileName : string) : string
1764: Function LoadFromFile( const FileName : string) : TBitmapLoader
1765: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1766: Function LoadPackage(const Name: string): HMODULE
1767: Function LoadResource( ModuleHandle: HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1768: Function LoadStr( Ident : Integer) : string
1769: Function LoadString(Instance: Longint; IDent: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1770: Function LoadWideStr( Ident : Integer) : WideString
1771: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1772: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HRESULT
1773: Function LockServer( fLock : LongBool) : HRESULT
1774: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1775: Function Log( const X : Extended) : Extended
1776: Function Log10( const X : Extended) : Extended
1777: Function Log2( const X : Extended) : Extended
1778: function LogBase10(X: Float): Float;
1779: Function LogBase2(X: Float): Float;
1780: Function LogBaseN(Base, X: Float): Float;
1781: Function LogN( const Base, X : Extended) : Extended
1782: Function LogOffOS : Boolean
1783: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1784: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1785: Function LongDateFormat: string;
1786: function LongTimeFormat: string;
1787: Function LongWordToFourChar( ACARDINAL : LongWord) : string
1788: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1789: Function LookupName( const name : string) : TInAddr
1790: Function LookupService( const service : string) : Integer
1791: function Low: Int64;
1792: Function LowerCase( S : string) : string
1793: Function Lowercase(s : AnyString) : AnyString;
1794: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1795: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1796: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1797: function MainInstance: longword
1798: function MainThreadID: longword
1799: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1800: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1801: Function MakeCanonicalIPv4Address( const AAddr : string) : string
1802: Function MakeCanonicalIPv6Address( const AAddr : string) : string
1803: Function MakeDIB( out Bitmap : PBitmapInfo) : Integer
1804: Function MakeDWordIntoIPv4Address( const ADWord : Cardinal) : string
1805: Function MakeFile( const FileName: string): integer';
1806: function MakeLong(A, B: Word): Longint
1807: Function MakeTempFilename( const APath : String) : string
1808: Function MakeValidFileName( const Str : string) : string
1809: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1810: function MakeWord(A, B: Byte): Word
1811: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1812: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1813: Function MapValues( Mapping : string; Value : string) : string
1814: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1815: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1816: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1817: Function MaskGetFldSeparator( const EditMask : string) : Integer
1818: Function MaskGetMaskBlank( const EditMask : string) : Char
1819: Function MaskGetMaskSave( const EditMask : string) : Boolean
1820: Function MaskIntLiteralToChar( IChar : Char) : Char
1821: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1822: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1823: Function MaskString( Mask, Value : String) : String
1824: Function Match( const sString : string) : TniRegularExpressionMatchResult
1825: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1826: Function Matches( const Filename : string) : Boolean
1827: Function MatchesMask( const Filename, Mask : string) : Boolean
1828: Function Matchstr( const AText : string; const AValues : array of string) : Boolean
1829: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1830: Function Max( AValueOne, AValueTwo : Integer) : Integer
1831: function Max(const x,y: Integer): Integer;
1832: Function Max1( const B1, B2 : Shortint) : Shortint;
1833: Function Max2( const B1, B2 : Smallint) : Smallint;
1834: Function Max3( const B1, B2 : Word) : Word;
1835: function Max3(const x,y,z: Integer): Integer;
1836: Function Max4( const B1, B2 : Integer) : Integer;
1837: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1838: Function Max6( const B1, B2 : Int64) : Int64;
1839: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1840: Function MaxFloat( const X, Y : Float) : Float
1841: Function MaxFloatArray( const B : TDynFloatArray) : Float
1842: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1843: function MaxIntValue(const Data: array of Integer):Integer)

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1844: Function MaxJ( const B1, B2 : Byte) : Byte;
1845: function MaxPath: string;
1846: function MaxValue(const Data: array of Double): Double)
1847: Function MaxCalc( const Formula : string) : Extended //math expression parser
1848: Procedure MaxCalcF( const Formula : string); //out to console memo2
1849: function MD5(const fileName: string): string;
1850: Function Mean( const Data : array of Double) : Extended
1851: Function Median( const X : TDynFloatArray) : Float
1852: Function Memory : Pointer
1853: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1854: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1855: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1856: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1857: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1858: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
  Y:Integer):Integer;
1859: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
1860: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
1861: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn ) : Integer;
1862: Function MibToId( Mib : string ) : string
1863: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer ) : AnsiString;
1864: Function MidStr( const AText : WideString; const AStart, ACount : Integer ) : WideString;
1865: Function microsecondsToCentimeters(mseconds: longint): longint; //340m/s speed of sound
1866: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64
1867: Function MIDIOut( DeviceID : Cardinal ) : IJclMIDIOut
1868: Procedure GetMidiOutputs( const List : TStrings )
1869: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single ) : TSingleNoteTuningData
1870: Function MIDINoteToStr( Note : TMIDINote ) : string
1871: Function WinMidiOut( DeviceID : Cardinal ) : IJclWinMidiOut
1872: Procedure GetMidiOutputs( const List : TStrings )
1873: Procedure MidiOutCheck( Code : MMResult )
1874: Procedure MidiInCheck( Code : MMResult )
1875: Function MillisecondOf( const AValue : TDateTime ) : Word
1876: Function MillisecondOfTheDay( const AValue : TDateTime ) : LongWord
1877: Function MillisecondOfTheHour( const AValue : TDateTime ) : LongWord
1878: Function MillisecondOfTheMinute( const AValue : TDateTime ) : LongWord
1879: Function MillisecondOfTheMonth( const AValue : TDateTime ) : LongWord
1880: Function MillisecondOfTheSecond( const AValue : TDateTime ) : Word
1881: Function MillisecondOfTheWeek( const AValue : TDateTime ) : LongWord
1882: Function MillisecondOfTheYear( const AValue : TDateTime ) : Int64
1883: Function MilliSecondsBetween( const ANow, AThen : TDateTime ) : Int64
1884: Function MillisecondSpan( const ANow, AThen : TDateTime ) : Double
1885: Function milliToDateTime( MilliSecond : LongInt ) : TDateTime';
1886: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
1887: Function millis: int64;
1888: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1889: Function Min1( const B1, B2 : Shortint ) : Shortint;
1890: Function Min2( const B1, B2 : Smallint ) : Smallint;
1891: Function Min3( const B1, B2 : Word ) : Word;
1892: Function Min4( const B1, B2 : Integer ) : Integer;
1893: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1894: Function Min6( const B1, B2 : Int64 ) : Int64;
1895: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1896: Function MinClientRect : TRect;
1897: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1898: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1899: Function MinFloat( const X, Y : Float ) : Float
1900: Function MinFloatArray( const B : TDynFloatArray ) : Float
1901: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1902: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1903: Function MinimizeName( const FileName : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1904: function MinimizeName(const FileName: String; Canvas: TCanvas;MaxLen: Integer): TFileName
1905: Function MinIntValue( const Data : array of Integer ) : Integer
1906: function MinIntValue(const Data: array of Integer):Integer)
1907: Function MinJ( const B1, B2 : Byte ) : Byte;
1908: Function MinuteOf( const AValue : TDateTime ) : Word
1909: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1910: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1911: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1912: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1913: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1914: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1915: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1916: Function MinValue( const Data : array of Double ) : Double
1917: function MinValue(const Data: array of Double): Double)
1918: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1919: Function MMCheck( const MciError : MCIErrOR; const Msg : string ) : MCIErrOR
1920: Function ModFloat( const X, Y : Float ) : Float
1921: Function ModifiedJulianDateToDateTime( const AValue : Double ) : TDateTime
1922: Function Modify( const Key : string; Value : Integer ) : Boolean
1923: Function ModuleCacheID : Cardinal
1924: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1925: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1926: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1927: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor

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1928: Function MonthOf( const AValue : TDateTime ) : Word
1929: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1930: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1931: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1932: Function MonthStr( DateTime : TDateTime ) : string
1933: Function MouseCoord( X, Y : Integer ) : TGridCoord
1934: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER
1935: Function Movefile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1936: Function MoveNext : Boolean
1937: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1938: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp
1939: Function Name : string
1940: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
Double;PaymentTime:TPaymentTime):Extended
1941: function NetworkVolume(DriveChar: Char): string
1942: Function NEWBOTTOMLINE : INTEGER
1943: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant ) : PExprNode
1944: Function NEWITEM( const ACaption : String; ASHORTCUT : TSHORTCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNOTIFYEVENT; HCTX : WORD; const ANAME : String ) : TMENUITEM
1945: Function NEWLINE : TMENUITEM
1946: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1947: Function NewNode(Kind: TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
Right:PExprNode):PExprNode
1948: Function NEWPOPUPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPUPALIGNMENT;AUTOPOPUP:BOOLEAN;
const ITEMS : array of TCMENUITEM) : TPOPUPMENU
1949: Function NewState( eType : TniRegularExpressionStateType ) : TniRegularExpressionState
1950: Function NEWSUBMENU(const ACAPT:String;HCTX:WORD;const ANAME:String;ITEMS:array of
TMenuItem;AENABLED:BOOL): TMENUITEM
1951: Function NEWTOPLINE : INTEGER
1952: Function Next : TIIdAuthWhatsNext
1953: Function NextCharIndex( S : String; Index : Integer ) : Integer
1954: Function NextRecordSet : TCustomSQLDataSet
1955: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1956: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLElement ) : TSQLElement;
1957: Function NextToken : Char
1958: Function nextToken : WideString
1959: function NextToken:Char
1960: Function Norm( const Data : array of Double ) : Extended
1961: Function NormalizeAngle( const Angle : Extended ) : Extended
1962: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1963: Function NormalizeRect( const Rect : TRect ) : TRect
1964: function NormalizeRect(const Rect: TRect): TRect;
1965: Function Now : TDateTime
1966: function Now2: tDateTime
1967: Function NumProcessThreads : integer
1968: Function NumThreadCount : integer
1969: Function NthDayOfWeek( const AValue : TDateTime ) : Word
1970: Function NtProductType : TNTProductType
1971: Function NtProductTypeString : string
1972: function Null: Variant;
1973: Function NullPoint : TPoint
1974: Function NullRect : TRect
1975: Function Null2Blank(aString:String):String;
1976: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue : Extended; PaymentTime : TPpaymentTime ) : Extended
1977: Function NumIP : integer
1978: function Odd(x: Longint): boolean;
1979: Function OffsetFromUTC : TDateTime
1980: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
1981: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
1982: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean
1983: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
1984: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
1985: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
1986: Function OldCurrToBCD(const Curr:Currency; var BCD:TBcd; Precision:Integer;Decimals:Integer): Boolean
1987: function OpenBit:Integer
1988: Function OpenDatabase : TDatabase
1989: Function OpenDatabase( const DatabaseName : string ) : TDatabase
1990: Procedure OpenDir(adir: string);
1991: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
1992: Function OpenObject( Value : PChar ) : Boolean;
1993: Function OpenObject1( Value : string ) : Boolean;
1994: Function OpenSession( const SessionName : string ) : TSession
1995: Function OpenVolume( const Drive : Char ) : THandle
1996: function OrdFourByteToCardinal( AByte1, AByte2, AByte3, AByte4 : Byte ) : Cardinal
1997: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
1998: Function OrdToBinary( const Value : Byte ) : string;
1999: Function OrdToBinary1( const Value : Shortint ) : string;
2000: Function OrdToBinary2( const Value : Smallint ) : string;
2001: Function OrdToBinary3( const Value : Word ) : string;
2002: Function OrdToBinary4( const Value : Integer ) : string;
2003: Function OrdToBinary5( const Value : Cardinal ) : string;
2004: Function OrdToBinary6( const Value : Int64 ) : string;
2005: Function OSCheck( RetVal : Boolean ) : Boolean
2006: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
2007: Function OSIdentToString( const OSIdent : DWORD ) : string
2008: Function Output: Text)
2009: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2010: Function Owner : TCustomListView

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2011: function Owner : TPersistent
2012: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2013: Function PadL( pStr : String; pLth : integer ) : String
2014: Function Padl(s : AnyString;I : longInt) : AnyString;
2015: Function PadLCh( pStr : String; pLth : integer; pChr : char ) : String
2016: Function PadR( pStr : String; pLth : integer ) : String
2017: Function Padr(s : AnyString;I : longInt) : AnyString;
2018: Function PadRCh( pStr : String; pLth : integer; pChr : char ) : String
2019: Function PadString( const AString : String; const ALen : Integer; const AChar : Char ) : String
2020: Function Padz(s : AnyString;I : longInt) : AnyString;
2021: Function PaethPredictor( a, b, c : Byte ) : Byte
2022: Function PARAMBYNAME( const VALUE : String ) : TPARAM
2023: Function ParamByName( const Value : WideString ) : TParameter
2024: Function ParamCount: Integer
2025: Function ParamsEncode( const ASrc : string ) : string
2026: function ParamStr(Index: Integer): string
2027: Function ParseDate( const DateStr : string ) : TDateTime
2028: Function PARSESQL( SQL : String; DOCREATE : Boolean ) : String
2029: Function ParseSQL( SQL : WideString; DoCreate : Boolean ) : WideString
2030: Function PathAddExtension( const Path, Extension : string ) : string
2031: Function PathAddSeparator( const Path : string ) : string
2032: Function PathAppend( const Path, Append : string ) : string
2033: Function PathBuildRoot( const Drive : Byte ) : string
2034: Function PathCanonicalize( const Path : string ) : string
2035: Function PathCommonPrefix( const Path1, Path2 : string ) : Integer
2036: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string;
2037: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int;CmpFmt:TCompactPath):string;
2038: Function PathEncode( const ASrc : string ) : string
2039: Function PathExtractFileDirFixed( const S : AnsiString ) : AnsiString
2040: Function PathExtractFileNameNoExt( const Path : string ) : string
2041: Function PathExtractPathDepth( const Path : string; Depth : Integer ) : string
2042: Function PathGetDepth( const Path : string ) : Integer
2043: Function PathGetLongName( const Path : string ) : string
2044: Function PathGetLongName2( Path : string ) : string
2045: Function PathGetShortName( const Path : string ) : string
2046: Function PathIsAbsolute( const Path : string ) : Boolean
2047: Function PathIsChild( const Path, Base : AnsiString ) : Boolean
2048: Function PathIsDiskDevice( const Path : string ) : Boolean
2049: Function PathIsUNC( const Path : string ) : Boolean
2050: Function PathRemoveExtension( const Path : string ) : string
2051: Function PathRemoveSeparator( const Path : string ) : string
2052: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2053: Function Peek : Pointer
2054: Function Peek : TObject
2055: function PERFORM(MSG:CARDINAL;WPARAM:LPARAM;LONGINT):LONGINT
2056: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2057: function Permutation(npr, k: integer): extended;
2058: function PermutationInt(npr, k: integer): Int64;
2059: Function PermutationJ( N, R : Cardinal ) : Float
2060: Function Pi : Extended;
2061: Function PiE : Extended;
2062: Function PixelsToDialogsX( const Pixels : Word ) : Word
2063: Function PixelsToDialogsY( const Pixels : Word ) : Word
2064: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2065: Function Point( X, Y : Integer ) : TPoint
2066: function Point(X, Y: Integer): TPoint
2067: Function PointAssign( const X, Y : Integer ) : TPoint
2068: Function PointDist( const P1, P2 : TPoint ) : Double;
2069: function PointDist(const P1,P2: TFloaPoint): Double;
2070: Function PointDist1( const P1, P2 : TFloaPoint ) : Double;
2071: function PointDist2(const P1,P2: TPoint): Double;
2072: Function PointEqual( const P1, P2 : TPoint ) : Boolean
2073: Function PointIsNull( const P : TPoint ) : Boolean
2074: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloaPoint ) : Double
2075: Function Poly( const X : Extended; const Coefficients : array of Double ) : Extended
2076: Function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;
2077: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2078: Function Pop : Pointer
2079: Function Pop : TObject
2080: Function PopnStdDev( const Data : array of Double ) : Extended
2081: Function PopnVariance( const Data : array of Double ) : Extended
2082: Function PopulationVariance( const X : TDynFloatArray ) : Float
2083: function Pos(SubStr, S: AnyString): Longint;
2084: Function PosEqual( const Rect : TRect ) : Boolean
2085: Function PosEx( const SubStr, S : string; Offset : Integer ) : Integer
2086: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt ) : Integer
2087: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2088: Function Post1( AURL : string; const ASource : TStrings ) : string;
2089: Function Post2( AURL : string; const ASource : TStream ) : string;
2090: Function Post3( AURL : string; const ASource : TIIdMultiPartFormDataStream ) : string;
2091: Function PostData( const UserData : WideString; const CheckSum : DWORD ) : Boolean
2092: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2093: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2094: Function Power( const Base, Exponent : Extended ) : Extended
2095: Function PowerBig(aval, n:integer): string;
2096: Function PowerIntJ( const X : Float; N : Integer ) : Float;
2097: Function PowerJ( const Base, Exponent : Float ) : Float;

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2098: Function PowerOffOS : Boolean
2099: Function PreformatDateString( Ps : string ) : string
2100: Function PresentValue( const Rate:Extend;NPeriods:Int;const Payment,
    FutureVal:Extend;PaymentTime:TpaymentTime ):Extended
2101: Function PrimeFactors( N : Cardinal ) : TDynCardinalArray
2102: Function Printer : TPrinter
2103: Function ProcessPath2( const ABasePath:String; const APath: String; const APathDelim:string): string
2104: Function ProcessResponse : TIDHTTPWhatsNext
2105: Function ProduceContent : string
2106: Function ProduceContentFromStream( Stream : TStream ) : string
2107: Function ProduceContentFromString( const S : string ) : string
2108: Function ProgIDToClassID(const ProgID: string): TGUID
2109: Function PromptDataLinkFile( ParentHandle : THandle; InitialFile : WideString ) : WideString
2110: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString ) : WideString
2111: Function PromptForFileName( var AFileName : string; const AFilter : string; const ADefaultExt : string;
    const ATitle : string; const AInitialDir : string; SaveDialog : Boolean ) : Boolean
2112: function PromptForFileName(var AFileName: string; const AFilter: string; const ADefaultExt: string;const
    ATitle: string; const AInitialDir: string; SaveDialog: Boolean): Boolean
2113: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FileName,Output:String):Boolean
2114: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2115: function PtInRect(const Rect : TRect; const P : TPoint): Boolean
2116: Function Push( AItem : Pointer ) : Pointer
2117: Function Push( AObject : TObject ) : TObject
2118: Function Putl( AURL : string; const ASource : TStream ) : string;
2119: Function Pythagoras( const X, Y : Extended ) : Extended
2120: Function queryDLLInterface( var queryList : TStringList ) : TStringList
2121: Function queryDLLInterfaceTwo( var queryList : TStringList ) : TStringList
2122: Function QueryInterface( const IID: TGUID; out Obj): HResult, CdStdCall
2123: Function queryPerformanceCounter2(mse: int64): int64;
2124: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2125: //Function QueryPerformanceFrequency(mse: int64): boolean;
2126: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2127: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2128: Procedure QueryPerformanceCounter1(var aC: Int64);
2129: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2130: Function Quote( const ACommand : String ) : SmallInt
2131: Function QuotedStr( S : string ) : string
2132: Function RadToCycle( const Radians : Extended ) : Extended
2133: Function RadToDeg( const Radians : Extended ) : Extended
2134: Function RadToDeg( const Value : Extended ) : Extended;
2135: Function RadToDeg1( const Value : Double ) : Double;
2136: Function RadToDeg2( const Value : Single ) : Single;
2137: Function RadToGrad( const Radians : Extended ) : Extended
2138: Function RadToGrad( const Value : Extended ) : Extended;
2139: Function RadToGrad1( const Value : Double ) : Double;
2140: Function RadToGrad2( const Value : Single ) : Single;
2141: Function RandG( Mean, StdDev : Extended ) : Extended
2142: function Random(const ARange: Integer): Integer;
2143: function random2(a: integer): double
2144: function RandomE: Extended;
2145: function RandomF: Extended;
2146: Function RandomFrom( const AValues : array of string ) : string;
2147: Function RandomRange( const AFrom, ATo : Integer ) : Integer
2148: function randSeed: longint
2149: Function RawToDataColumn( ACol : Integer ) : Integer
2150: Function Read : Char
2151: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint ) : HResult
2152: function Read(Buffer:String;Count:LongInt):LongInt
2153: Function ReadBinaryStream( const Section, Name : string; Value : TStream ) : Integer
2154: Function ReadBool( const Section, Ident : string; Default : Boolean ) : Boolean
2155: Function ReadCardinal( const AConvert : boolean ) : Cardinal
2156: Function ReadChar : Char
2157: Function ReadClient( var Buffer, Count : Integer ) : Integer
2158: Function ReadDate( const Section, Name : string; Default : TDateTime ) : TDateTime
2159: Function ReadDateTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2160: Function ReadFloat( const Section, Name : string; Default : Double ) : Double
2161: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:
    Bool):Int
2162: Function ReadInteger( const AConvert : boolean ) : Integer
2163: Function ReadInteger( const Section, Ident : string; Default : Longint ) : Longint
2164: Function ReadLn : string
2165: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer ) : string
2166: function ReadLn(question: string): string
2167: Function ReadLnWait( AFailCount : Integer ) : string
2168: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2169: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2170: Function ReadSmallInt( const AConvert : boolean ) : SmallInt
2171: Function ReadString( const ABytes : Integer ) : string
2172: Function ReadString( const Section, Ident, Default : string ) : string
2173: Function ReadString( Count : Integer ) : string
2174: Function Readtime( const Section, Name : string; Default : TDateTime ) : TDateTime
2175: Function ReadTimeStampCounter : Int64
2176: Function RebootOS : Boolean
2177: Function Receive( ATimeOut : Integer ) : TReplyStatus
2178: Function ReceiveBuf( var Buf, Count : Integer ) : Integer
2179: Function ReceiveLength : Integer
2180: Function ReceiveText : string
2181: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2182: Function ReceiveSerialText: string

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2183: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word) : TDateTime
2184: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,
  AMilliSec:Word):TDateTime
2185: Function RecodeDay( const AValue : TDateTime; const ADay : Word) : TDateTime
2186: Function RecodeHour( const AValue : TDateTime; const AHour : Word) : TDateTime
2187: Function RecodeMilliSecond( const AValue : TDateTime; const AMilliSecond : Word) : TDateTime
2188: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word) : TDateTime
2189: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word) : TDateTime
2190: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word) : TDateTime
2191: Function RecodeTime( const AValue: TDateTime;const AHour,AMinute,ASecound,AMilliSecond:Word):TDateTime
2192: Function RecodeYear( const AValue : TDateTime; const AYear : Word) : TDateTime
2193: Function Reconcile( const Results : OleVariant) : Boolean
2194: Function Rect( Left, Top, Right, Bottom : Integer) : TRect
2195: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect)
2196: Function Rect2( const ATopLeft, ABottomRight : TPoint) : TRect;
2197: Function RectAssign( const Left, Top, Right, Bottom : Integer) : TRect
2198: Function RectAssignPoints( const TopLeft, BottomRight : TPoint) : TRect
2199: Function RectBounds( const Left, Top, Width, Height : Integer) : TRect
2200: Function RectCenter( const R : TRect) : TPoint
2201: Function RectEqual( const R1, R2 : TRect) : Boolean
2202: Function RectHeight( const R : TRect) : Integer
2203: Function RectIncludesPoint( const R : TRect; const Pt : TPoint) : Boolean
2204: Function RectIncludesRect( const R1, R2 : TRect) : Boolean
2205: Function RectIntersection( const R1, R2 : TRect) : TRect
2206: Function RectIntersectRect( const R1, R2 : TRect) : Boolean
2207: Function RectIsEmpty( const R : TRect) : Boolean
2208: Function RectIsNull( const R : TRect) : Boolean
2209: Function RectIsSquare( const R : TRect) : Boolean
2210: Function RectisValid( const R : TRect) : Boolean
2211: Function RectsAreValid( R : array of TRect) : Boolean
2212: Function RectUnion( const R1, R2 : TRect) : TRect
2213: Function RectWidth( const R : TRect) : Integer
2214: Function RedComponent( const Color32 : TColor32) : Integer
2215: Function Refresh : Boolean
2216: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2217: Function RegisterConversionFamily( const ADescription : string) : TConvFamily
2218: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType) : Boolean;
2219: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2220: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2221: Function ReleasedDC(hwndd: HWND; hdc: HDC): integer;
2222: Function ReleaseHandle : HBITMAP
2223: Function ReleaseHandle : HENHMETAFILE
2224: Function ReleaseHandle : HICON
2225: Function ReleasePalette : HPALETTE
2226: Function RemainderFloat( const X, Y : Float) : Float
2227: Function Remove( AClass : TClass) : Integer
2228: Function Remove( AComponent : TComponent) : Integer
2229: Function Remove( AItem : Integer) : Integer
2230: Function Remove( AItem : Pointer) : Pointer
2231: Function Remove( AItem : TObject) : TObject
2232: Function Remove( AObject : TObject) : Integer
2233: Function RemoveBackslash( const PathName : string) : string
2234: Function RemoveDF( aString : String) : String //removes thousand separator
2235: Function RemoveDir( Dir : string) : Boolean
2236: function RemoveDir(const Dir: string): Boolean
2237: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2238: Function RemoveFileExt( const FileName : string) : string
2239: Function RemoveHeaderEntry( AHeader, AEntry : string) : string
2240: Function RenameFile( OldName, NewName : string) : Boolean
2241: function RenameFile(const OldName: string; const NewName: string): Boolean)
2242: Function ReplaceStr( const AText, AFromText, AToText : string) : string
2243: Function ReplaceText( const AText, AFromText, AToText : string) : string
2244: Function Replicate(c : char;I : longInt) : String;
2245: Function Request : TWebRequest
2246: Function ResemblesText( const AText, AOther : string) : Boolean
2247: Function Reset : Boolean
2248: function Reset2(mypath: string):string;
2249: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2250: Function ResourceLoad( ResType : TResType; const Name : string; MaskColor : TColor) : Boolean
2251: Function Response : TWebResponse
2252: Function ResumeSupported : Boolean
2253: Function RETHINKHOTKEYS : BOOLEAN
2254: Function RETHINKLINES : BOOLEAN
2255: Function Retrieve( const MsgNum : Integer; AMsg : TIdMessage) : Boolean
2256: Function RetrieveCurrentDir : string
2257: Function RetrieveDeltas( const cdsArray : array of TClientDataset) : Variant
2258: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIdMessage) : Boolean
2259: Function RetrieveMailBoxSize : integer
2260: Function RetrieveMsgSize( const MsgNum : Integer) : Integer
2261: Function RetrieveProviders( const cdsArray : array of TClientDataset) : Variant
2262: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStringList) : boolean
2263: Function ReturnMIMETYPE( var MediaType, EncType : String) : Boolean
2264: Function ReverseBits( Value : Byte) : Byte;
2265: Function ReverseBits1( Value : Shortint) : Shortint;
2266: Function ReverseBits2( Value : Smallint) : Smallint;
2267: Function ReverseBits3( Value : Word) : Word;
2268: Function ReverseBits4( Value : Cardinal) : Cardinal;
2269: Function ReverseBits4( Value : Integer) : Integer;
2270: Function ReverseBits5( Value : Int64) : Int64;

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2271: Function ReverseBytes( Value : Word) : Word;
2272: Function ReverseBytes1( Value : Smallint ) : Smallint;
2273: Function ReverseBytes2( Value : Integer ) : Integer;
2274: Function ReverseBytes3( Value : Cardinal ) : Cardinal;
2275: Function ReverseBytes4( Value : Int64 ) : Int64;
2276: Function ReverseString( const AText : string ) : string
2277: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout:Integer;Retries:Integer;var HostName:String):Boolean;
2278: Function Revert : HRESULT
2279: Function RGB(R,G,B: Byte): TColor;
2280: Function RGB2BGR( const Color : TColor ) : TColor;
2281: Function RGB2TColor( R, G, B : Byte ) : TColor;
2282: Function RGBToWebColorName( RGB : Integer ) : string;
2283: Function RGBToWebColorStr( RGB : Integer ) : string;
2284: Function RgbToHtml( Value : TColor ) : string;
2285: Function HtmlToRgb(const Value: string): TColor;
2286: Function RightStr( const AStr : String; Len : Integer ) : String;
2287: Function RightStr( const AText : WideString; const ACount : Integer ) : WideString;
2288: Function RightStr( const AText : WideString; const AShift : Byte ) : WideString;
2289: Function ROL( AVal : LongWord; AShift : Byte ) : LongWord;
2290: Function ROR( AVal : LongWord; AShift : Byte ) : LongWord;
2291: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float ) : TFloatPoint;
2292: function RotatePoint(Point: TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2293: Function Round(e : Extended) : Longint;
2294: Function Round64(e: extended): Int64;
2295: Function RoundAt( const Value : string; Position : SmallInt ) : string;
2296: type TRoundToRange = -37..37; TRoundToEXRangeExtended = -20..20;
2297: Function RoundTo(const AValue: Extended; const ADigit: TRoundToEXRangeExtended): Extended; overload;
2298: Function SimpleRoundTo(const AValue: Extended; const ADigit: TRoundToRange): Extended; overload;
2299: Function RoundFrequency( const Frequency : Integer ) : Integer;
2300: Function RoundInt( Value : Integer; StepSize : Integer ) : Integer;
2301: Function RoundPoint( const X, Y : Double ) : TPoint;
2302: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double ) : TRect;
2303: Function RowCount : Integer;
2304: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant ) : OleVariant;
2305: Function RowRequest( Row : OleVariant; Options : TFetchOptions ) : OleVariant;
2306: Function RPos( const ASub, AIn : String; AStart : Integer ) : Integer;
2307: Function RRot( const Value : Byte; const Count : TBitRange ) : Byte;
2308: Function RRot1( const Value : Word; const Count : TBitRange ) : Word;
2309: Function RRot2( const Value : Integer; const Count : TBitRange ) : Integer;
2310: Function RunDLL32(const ModuleNa,FuncName,CmdLine:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean;
2311: Function RunningProcessesList( const List : TStrings; FullPath : Boolean ) : Boolean;
2312: Function S_AddBackSlash( const ADirName : string ) : string;
2313: Function S_AllTrim( const cStr : string ) : string;
2314: Function S_AtRepl( const cAT, cStr, cRepl : string ) : string;
2315: Function S_Cut( const cStr : string; const iLen : integer ) : string;
2316: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer ) : integer;
2317: Function S_DirExists( const ADir : string ) : Boolean;
2318: Function S_Empty( const cStr : string ) : boolean;
2319: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer ) : string;
2320: Function S_LargeFontsActive : Boolean;
2321: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer ) : Extended;
2322: Function S_LTrim( const cStr : string ) : string;
2323: Function S_ReadNextTextlineFromStream( stream : TStream ) : string;
2324: Function S_RepeatChar( const iLen : integer; const AChar : Char ) : string;
2325: Function S_ReplFirst( const cAT, cStr, cRepl : string ) : string;
2326: Function S_RoundDecimal( AValue : Extended; APPlaces : Integer ) : Extended;
2327: Function S_RTrim( const cStr : string ) : string;
2328: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer ) : string;
2329: //Type TS_ShellExecuteCmd = (seCmdOpen,seCmdPrint,seCmdExplore);
2330: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd ) : string;
2331: Function S_Space( const iLen : integer ) : String;
2332: Function S_StrBlanks( const cStr : string; const iLen : integer ) : string;
2333: Function S_StrBlanksCuttoLong( const cStr : string; const iLen : integer ) : string;
2334: Function S_StrCRC32( const Text : string ) : LongWORD;
2335: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer ) : string;
2336: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer ) : string;
2337: Function S_StringtoUTF_8( const AString : string ) : string;
2338: Function S_StrLBlanks( const cStr : string; const iLen : integer ) : string;
2339: function S_StrToReal(const cStr: string; var R: Double): Boolean;
2340: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean ) : boolean;
2341: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean ) : string;
2342: Function S_UTF_8ToString( const AString : string ) : string;
2343: Function S_WBox( const AText : string ) : integer;
2344: Function SameDate( const A, B : TDateTime ) : Boolean;
2345: function SameDate(const A, B: TDateTime): Boolean;
2346: Function SameDateTime( const A, B : TDateTime ) : Boolean;
2347: function SameDateTime(const A, B: TDateTime): Boolean;
2348: Function SamefileName( S1, S2 : string ) : Boolean;
2349: Function SameText( S1, S2 : string ) : Boolean;
2350: function SameText(const S1: string; const S2: string): Boolean;
2351: Function SameTime( const A, B : TDateTime ) : Boolean;
2352: function SameTime(const A, B: TDateTime): Boolean;
2353: function SameValue(const A, B: Extended; Epsilon: Extended): Boolean //overload;
2354: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2355: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2356: Function SampleVariance( const X : TDynFloatArray ) : Float;
2357: Function Sar( const Value : Shortint; const Count : TBitRange ) : Shortint;
2358: Function Sar1( const Value : Smallint; const Count : TBitRange ) : Smallint;

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2359: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2360: Function SaveToFile( const AFileName : TFileName) : Boolean
2361: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2362: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, afileName: string; openexcel: boolean): Boolean;
2363: Function ScanF(const aformat: String; const args: array of const): string;
2364: Function SCREENTOCCLIENT(POINT:TPOINT):TPOINT
2365: Function SearchBuf(Buf:PChar; BufLen:Integer;SelStart,SelLength:Integer;SearchString:String;Options:TStringSearchOptions):PChar
2366: Function SearchBuf2(Buf: string;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer
2367: function SearchRecattr: integer;
2368: function SearchRecExcludeAttr: integer;
2369: Function SearchRecFileSize64( const SearchRec : TSearchRec ) : Int64
2370: function SearchRecname: string;
2371: function SearchRecsize: integer;
2372: function SearchRecTime: integer;
2373: Function Sec( const X : Extended ) : Extended
2374: Function Secant( const X : Extended ) : Extended
2375: Function SecH( const X : Extended ) : Extended
2376: Function SecondOf( const AValue : TDateTime ) : Word
2377: Function SecondOfTheDay( const AValue : TDateTime ) : LongWord
2378: Function SecondOfTheHour( const AValue : TDateTime ) : Word
2379: Function SecondOfTheMinute( const AValue : TDateTime ) : Word
2380: Function SecondOfTheMonth( const AValue : TDateTime ) : LongWord
2381: Function SecondOfTheWeek( const AValue : TDateTime ) : LongWord
2382: Function SecondOfTheYear( const AValue : TDateTime ) : LongWord
2383: Function SecondsBetween( const ANow, AThen : TDateTime ) : Int64
2384: Function SecondSpan( const ANow, AThen : TDateTime ) : Double
2385: Function SectionExists( const Section : string ) : Boolean
2386: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption ) : Boolean
2387: Function Seek( dlibMove: Longint; dwOrigin : Longint; out libNewPosition : Largeint ) : HResult
2388: function Seek(Offset:LongInt;Origin:Word):LongInt
2389: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2390: Function SelectDirectory1( const Caption : string; const Root : WideString; var Directory : string; Options : TSelectDirExtOpts; Parent : TwinControl ) : Boolean;
2391: Function SelectImage( var AFileName : string; const Extensions, Filter : string ) : Boolean
2392: function SendAppMessage(Msg: Cardinal; WParam: LParam; Longint): Longint
2393: Function SendBuf( var Buf, Count : Integer ) : Integer
2394: Function SendCmd( const AOut : string; const AResponse : SmallInt ) : SmallInt;
2395: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt ) : SmallInt;
2396: Function SendKey( AppName : string; Key : Char ) : Boolean
2397: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2398: Function SendStream( AStream : TStream ) : Boolean
2399: Function SendStreamThenDrop( AStream : TStream ) : Boolean
2400: Function SendText( const S : string ) : Integer
2401: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2402: Function SendSerialText(Data: String): cardinal
2403: Function Sent : Boolean
2404: Function ServicesFilePath: string
2405: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer ) : TColor32
2406: Function SetBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2407: Function SetBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2408: Function SetBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2409: Function SetBit3( const Value : Word; const Bit : TBitRange ) : Word;
2410: Function SetBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2411: Function SetBit4( const Value : Integer; const Bit : TBitRange ) : Integer;
2412: Function SetBit5( const Value : Int64; const Bit : TBitRange ) : Int64;
2413: Function SetClipboard( NewClipboard : TClipboard ) : TClipboard
2414: Function SetColorBlue( const Color : TColor; const Blue : Byte ) : TColor
2415: Function SetColorFlag( const Color : TColor; const Flag : Byte ) : TColor
2416: Function SetColorGreen( const Color : TColor; const Green : Byte ) : TColor
2417: Function SetColorRed( const Color : TColor; const Red : Byte ) : TColor
2418: Function SetCurrentDir( Dir : string ) : Boolean
2419: function SetCurrentDir(const Dir: string): Boolean
2420: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2421: Function SetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
2422: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
2423: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
2424: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
2425: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2426: Function SetEnvironmentVar( const Name, Value : string ) : Boolean
2427: Function SetErrorProc( ErrorProc : TSocketErrorProc ) : TSocketErrorProc
2428: Function SetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
2429: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
2430: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
2431: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer ) : Boolean
2432: function SETFOCUSEDCONTROL(CONTROL:TWINCONTROL):BOOLEAN
2433: Function SetLocalTime( Value : TDateTime ) : boolean
2434: Function SetPrecisionTolerance( NewTolerance : Float ) : Float
2435: Function SetPrinter( NewPrinter : TPrinter ) : TPrinter
2436: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2437: Function SetRGBValue( const Red, Green, Blue : Byte ) : TColor
2438: Function SetSequence( S, Localizar, Substituir : shortstring ) : shortstring
2439: Function SetSize( libNewSize : Longint ) : HResult
2440: Function SetUserObjectFullAccess( hUserObject : THandle ) : Boolean
2441: Function Sgn( const X : Extended ) : Integer
2442: function SHA1(const fileName: string): string;
2443: function SHA256(astr: string; amode: char): string;
2444: function SHA512(astr: string; amode: char): string)

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2445: Function ShareMemoryManager : Boolean
2446: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2447: function Shelleexecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2448: Function ShellExecute3(Afilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2449: Function SHORTCUT( KEY : WORD ; SHIFT : TSHIFTSTATE ) : TSHORTCUT
2450: Function SHORTCUTTOTEXT( SHORTCUT : TSHORTCUT ) : String
2451: function ShortDateFormat: string;
2452: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
    RTL:Bool;EllipsisWidth:Int):WideString
2453: function ShortTimeFormat: string;
2454: function SHOWMODAL:INTEGER
2455: Function ShowModalControl(aControl : TControl; BS : TFormBorderStyle; BI : TBorderIcons; WS :
    TWindowState; aColor : TColor; BW : Integer; Title : String; BeforeShowModal : TNotifyEvent ) :
    TModalResult';
2456: Function
    ShowModalPanel(aPnl:TCustomPanel;Titl:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2457: function ShowWindow(C1: HWND; C2: integer): boolean;
2458: procedure ShowMemory //in Dialog
2459: function ShowMemory2: string;
2460: Function ShutDownOS : Boolean
2461: Function Signe( const X, Y : Extended ) : Extended
2462: Function Sign( const X : Extended ) : Integer
2463: Function Sin(e : Extended) : Extended;
2464: Function sinc( const x : Double) : Double
2465: Function SinJ( X : Float ) : Float
2466: Function Size( const AFileName : String ) : Integer
2467: function Sizeof: Longint;
2468: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle ) : Integer
2469: function SlashSep(const Path, S: String): String
2470: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer ) : Extended
2471: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL ) : DWORD
2472: Function SmallPoint(X, Y: Integer): TSmallPoint
2473: Function Soundex( const AText : string; ALengtH : TSoundexLength ) : string
2474: Function SoundexCompare( const AText, AOther : string; ALengtH : TSoundexLength ) : Integer
2475: Function SoundexInt( const AText : string; ALengtH : TSoundexIntLength ) : Integer
2476: Function SoundexProc( const AText, AOther : string ) : Boolean
2477: Function SoundexSimilar( const AText, AOther : string; ALengtH : TSoundexLength ) : Boolean
2478: Function SoundexWord( const AText : string ) : Word
2479: Function SourcePos: Longint
2480: function SourcePos:LongInt
2481: Function Split0( Str : string; const substr : string ) : TStringList
2482: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
2483: Function SQLRequiresParams( const SQL : WideString ) : Boolean
2484: Function Sqr(e : Extended) : Extended;
2485: Function Sqr(e : Extended) : Extended;
2486: Function StartIP : String
2487: Function StartPan( WndHandle : THandle; AControl : TControl ) : Boolean
2488: Function StartOfADay( const AYear, AMonth, ADay : Word ) : TDateTime;
2489: Function StartOfADay1( const AYear, ADayOfYear : Word ) : TDateTime;
2490: Function StartOfAMonth( const AYear, AMonth : Word ) : TDateTime
2491: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
2492: Function StartOfAYear( const AYear : Word ) : TDateTime
2493: Function StartOfTheDay( const AValue : TDateTime ) : TDateTime
2494: Function StartOfTheMonth( const AValue : TDateTime ) : TDateTime
2495: Function StartOfTheWeek( const AValue : TDateTime ) : TDateTime
2496: Function StartOfTheYear( const AValue : TDateTime ) : TDateTime
2497: Function StartsStr( const ASubText, AText : string ) : Boolean
2498: Function StartsText( const ASubText, AText : string ) : Boolean
2499: Function StartsWith( const ANSIStr, APattern : String ) : Boolean
2500: Function StartsWith( const str : string; const sub : string ) : Boolean
2501: Function StartsWithACE( const ABytes : TIdBytes ) : Boolean
2502: Function StatusString( StatusCode : Integer ) : string
2503: Function StdDev( const Data : array of Double ) : Extended
2504: Function Stop : Float
2505: Function StopCount( var Counter : TJclCounter ) : Float
2506: Function StoreColumns : Boolean
2507: Function StrAfter( const sString : string; const sDelimiters : string ) : string;
2508: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char ) : string;
2509: Function StrAlloc( Size : Cardinal ) : PChar
2510: function StrAlloc(Size: Cardinal): PChar
2511: Function StrBefore( const sString : string; const sDelimiters : string ) : string;
2512: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2513: Function StrBufSize( Str : PChar ) : Cardinal
2514: function StrBufSize(const Str: PChar): Cardinal
2515: Function StrByteType( Str : PChar; Index : Cardinal ) : TMbcsByteType
2516: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType
2517: Function StrCat( Dest : PChar; Source : PChar ) : PChar
2518: function StrCat(Dest: PChar; const Source: PChar): PChar
2519: Function StrCharLength( Str : PChar ) : Integer
2520: Function StrComp( Str1, Str2 : PChar ) : Integer
2521: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2522: Function StrCopy( Dest : PChar; Source : PChar ) : PChar
2523: function StrCopy(Dest: PChar; const Source: PChar): PChar
2524: Function Stream_to_AnsiString( Source : TStream ) : ansistring
2525: Function Stream_to_Base64( Source : TStream ) : ansistring
2526: Function Stream_to_decimalbytes( Source : TStream ) : string
2527: Function Stream2WideString( oStream : TStream ) : WideString
2528: Function StreamtoAnsiString( Source : TStream ) : ansistring
2529: Function StreamToByte( Source : TStream ) : string

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2530: Function StreamToDecimalbytes( Source : TStream) : string
2531: Function StreamtoOrd( Source : TStream) : string
2532: Function StreamToString( Source : TStream) : string
2533: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2534: Function StrEmpty( const sString : string) : boolean
2535: Function StrEnd( Str : PChar) : PChar
2536: function StrEnd(const Str: PChar): PChar
2537: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2538: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar
2539: Function StrGet(var S : String; I : Integer) : Char;
2540: Function StrGet2(S : String; I : Integer) : Char;
2541: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2542: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2543: Function StrHtmlDecode( const AStr : String) : String
2544: Function StrHtmlEncode( const AStr : String) : String
2545: Function StrToBytes(const Value: String): TBytes;
2546: Function StrIComp( Str1, Str2 : PChar) : Integer
2547: Function StringOfChar(c : char;I : longInt) : String;
2548: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2549: Function StringPad(InputStr,FillChar: String; Strlen:Integer; StrJustify:Boolean): String;
2550: Function StringRefCount(const s: String): integer;
2551: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2552: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2553: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2554: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2555: Function StringToBoolean( const Ps : string) : Boolean
2556: function StringToColor(const S: string): TColor
2557: function StringToCursor(const S: string): TCursor;
2558: function StringToGUID(const S: string): TGUID
2559: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2560: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2561: Function StringWidth( S : string) : Integer
2562: Function StrInternetToDateTime( Value : string) : TDateTime
2563: Function StrIsDateTime( const Ps : string) : Boolean
2564: Function StrIsFloatMoney( const Ps : string) : Boolean
2565: Function StrIsInteger( const S : string) : Boolean
2566: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2567: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2568: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2569: Function StrLen( Str : PChar) : Cardinal
2570: function StrLen(const Str: PChar): Cardinal
2571: Function StrLessPrefix( const sString : string; const sPrefix : string) : string
2572: Function StrLessSuffix( const sString : string; const sSuffix : string) : string
2573: Function StrLIComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2574: Function StrLower( Str : PChar) : PChar
2575: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal) : PChar
2576: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar
2577: Function StrNew( Str : PChar) : PChar
2578: function StrNew(const Str: PChar): PChar
2579: Function StrNextChar( Str : PChar) : PChar
2580: Function StrPad( const sString : string; const sPad : string; const iLength : integer) : string
2581: Function StrParse( var sString : string; const sDelimiters : string) : string;
2582: Function StrParse1( var sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2583: Function StrPas( Str : PChar) : string
2584: function StrPas(const Str: PChar): string
2585: Function StrPCopy( Dest : PChar; Source : string) : PChar
2586: function StrPCopy(Dest: PChar; const Source: string): PChar
2587: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal) : PChar
2588: Function StrPos( Str1, Str2 : PChar) : PChar
2589: Function StrScan(const Str: PChar; Chr: Char): PChar)
2590: Function StrRScan(const Str: PChar; Chr: Char): PChar)
2591: Function StrToBcd( const AValue : string) : TBcd
2592: Function StrToBool( S : string) : Boolean
2593: Function StrToBoolDef( S : string; Default : Boolean) : Boolean
2594: Function StrToCard( const AStr : String) : Cardinal
2595: Function StrToConv( AText : string; out ATyPe : TConvType) : Double
2596: Function StrToCurr( S : string) : Currency;
2597: function StrToCurr(const S: string): Currency)
2598: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2599: Function StrToDate( S : string) : TDateTime;
2600: function StrToDate(const s: string): TDateTime;
2601: Function StrToDateDef( S : string; Default : TDateTime) : TDateTime;
2602: Function StrToDateDef( S : string) : TDateTime;
2603: function StrToDateDef(const S: string): TDateTime)
2604: Function StrToDateDef( S : string; Default : TDateTime) : TDateTime;
2605: Function StrToDay( const ADay : string) : Byte
2606: Function StrToFloat( S : string) : Extended;
2607: function StrToFloat(s: String): Extended;
2608: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2609: function StrToFloatDef(const S: string; const Default: Extended): Extended;
2610: Function StrToFloat( S : string) : Extended;
2611: Function StrToFloat2( S : string; FormatSettings : TFormatSettings) : Extended;
2612: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2613: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2614: Function StrToCurr( S : string) : Currency;
2615: Function StrToCurr2( S : string; FormatSettings : TFormatSettings) : Currency;
2616: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2617: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings) : Currency;
2618: Function StrToTime2( S : string; FormatSettings : TFormatSettings) : TDateTime;

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2619: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2620: Function StrToTimeDef2( S : string; Default : TDateTime; FormatSettings:TFormatSettings):TDateTime;
2621: Function TryStrToTime( S : string; Value : TDateTime ) : Boolean;
2622: Function StrToDateTime( S : string ) : TDateTime;
2623: Function StrToDateTime2( S : string; FormatSettings : TFormatSettings ) : TDateTime;
2624: Function StrToDateTimeDef( S : string; Default : TDateTime ) : TDateTime;
2625: Function StrToFloatRegionalIndependent(aValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2626: Function StrToInt( S : string ) : Integer
2627: function StrToInt(s: String): Longint;
2628: Function StrToInt64( S : string ) : Int64
2629: function StrToInt64(s: String): int64;
2630: Function StrToInt64Def( S : string; Default : Int64 ) : Int64
2631: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2632: Function StrToIntDef( S : string; Default : Integer ) : Integer
2633: function StrToIntDef(const S: string; Default: Integer): Integer
2634: function StrToIntDef(s: String; def: Longint): Longint;
2635: Function StrToMonth( const AMonth : string ) : Byte
2636: Function StrToTime( S : string ) : TDateTime;
2637: function StrToTime(const S: string): TDateTime
2638: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2639: Function StrToWord( const Value : String ) : Word
2640: Function StrToXmlDate( const DateStr : string; const Format : string ) : string
2641: Function StrToXmlDateTime( const DateStr : string; const Format : string ) : string
2642: Function StrToXmlTime( const TimeStr : string; const Format : string ) : string
2643: Function StrUpper( Str : PChar ) : PChar
2644: Function StuffString( const AText : string; AStart, ALengt : Cardinal; const ASubText : string ) : string
2645: Function Sum( const Data : array of Double ) : Extended
2646: Function SumFloatArray( const B : TDynFloatArray ) : Float
2647: Function SumInt( const Data : array of Integer ) : Integer
2648: Function SumOfSquares( const Data : array of Double ) : Extended
2649: Function SumPairProductFloatArray( const X, Y : TDynFloatArray ) : Float
2650: Function SumSquareDiffFloatArray( const B : TDynFloatArray; Diff : Float ) : Float
2651: Function SumSquareFloatArray( const B : TDynFloatArray ) : Float
2652: Function Supports( CursorOptions : TCursorOptions ) : Boolean
2653: Function SupportsClipboardFormat( AFormat : Word ) : Boolean
2654: Function SwapWord(w : word): word)
2655: Function SwapInt(i : integer): integer
2656: Function SwapLong(L : longint): longint
2657: Function Swap(i : integer): integer
2658: Function SYDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
2659: Function SyncTime : Boolean
2660: Function SysErrorMessage( ErrorCode : Integer ) : string
2661: function SysErrorMessage(ErrorCode: Integer): string)
2662: Function SystemTimeToDateTime( SystemTime : TSystemTime ) : TDateTime
2663: function SystemTimeToDateTime(const SystemTime: TSystemTime): TDateTime;
2664: Function SysStringLen(const S: WideString): Integer; stdcall;
2665: Function TabRect( Index : Integer ) : TRect
2666: Function Tan( const X : Extended ) : Extended
2667: Function TaskMessageDlg(const Title,
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2668: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; DefaultButton : TMsgDlgBtn ) : Integer;
2669: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; X, Y : Integer ) : Integer;
2670: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
2671: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
  TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
2672: Function TaskMessageDlgPosHelp1( const Title, Msg:string;DlgType: TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2673: Function TenToY( const Y : Float ) : Float
2674: Function TerminateApp( ProcessID : DWORD; Timeout : Integer ) : TJclTerminateAppResult
2675: Function TerminateTask( Wnd : HWND; Timeout : Integer ) : TJclTerminateAppResult
2676: Function TestBit( const Value : Byte; const Bit : TBitRange ) : Boolean;
2677: Function TestBit2( const Value : Shortint; const Bit : TBitRange ) : Boolean;
2678: Function TestBit3( const Value : Smallint; const Bit : TBitRange ) : Boolean;
2679: Function TestBit4( const Value : Word; const Bit : TBitRange ) : Boolean;
2680: Function TestBit5( const Value : Cardinal; const Bit : TBitRange ) : Boolean;
2681: Function TestBit6( const Value : Integer; const Bit : TBitRange ) : Boolean;
2682: Function TestBit7( const Value : Int64; const Bit : TBitRange ) : Boolean;
2683: Function TestBits( const Value, Mask : Byte ) : Boolean;
2684: Function Testbits1( const Value, Mask : Shortint ) : Boolean;
2685: Function TestBits2( const Value, Mask : Smallint ) : Boolean;
2686: Function Testbits3( const Value, Mask : Word ) : Boolean;
2687: Function Testbits4( const Value, Mask : Cardinal ) : Boolean;
2688: Function TestBits5( const Value, Mask : Integer ) : Boolean;
2689: Function Testbits6( const Value, Mask : Int64 ) : Boolean;
2690: Function TestFDIVInstruction : Boolean
2691: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2692: Function TextExtent( const Text : string ) : TSize
2693: function TextHeight(Text: string): Integer;
2694: Function TextIsSame( const A1 : string; const A2 : string ) : Boolean
2695: Function TextStartsWith( const S, SubS : string ) : Boolean
2696: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatingValue): Boolean)
2697: Function ConvInteger(i : integer):string;
2698: Function IntegerToText(i : integer):string;
2699: Function TEXTTOSHORTCUT( TEXT : String ) : TSHORTCUT
2700: function TextWidth(Text: string): Integer;
2701: Function ThreadCount : integer

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2702: function ThousandSeparator: char;
2703: Function Ticks : Cardinal;
2704: Function Time : TDateTime;
2705: function Time: TDateTime;
2706: function TimeGetTime: int64;
2707: Function TimeOf( const AValue : TDateTime ) : TDateTime;
2708: function TimeSeparator: char;
2709: function TimeStampToDateTIme( const TimeStamp: TTImeStamp) : TDateTime;
2710: Function TimeStampToMSecs( TimeStamp: TTImeStamp) : Comp;
2711: function TimeStampToMSecs( const TimeStamp: TTImeStamp): Comp;
2712: Function TimeToStr( DateTIme : TDateTime ) : string;
2713: function TimeToStr(const DateTIme: TDateTime): string;
2714: Function TimeZoneBias : TDateTime;
2715: Function ToCommon( const AValue : Double) : Double;
2716: function ToCommon(const AValue: Double): Double;
2717: Function Today : TDateTime;
2718: Function ToggleBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2719: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2720: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2721: Function ToggleBit3( const Value : Word; const Bit : TBitRange ) : Word;
2722: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2723: Function ToggleBit5( const Value : Integer; const Bit : TBitRange ) : Integer;
2724: Function ToggleBit6( const Value : Int64; const Bit : TBitRange ) : Int64;
2725: function TokenComponentIdent:string;
2726: Function TokenFloat : Extended;
2727: function TokenFloat:Extended;
2728: Function TokenInt : Longint;
2729: function TokenInt:LongInt;
2730: Function TokenString : string;
2731: function TokenString:String;
2732: Function TokenSymbolIs( const S : string) : Boolean;
2733: function TokenSymbolIs(S:String):Boolean;
2734: Function Tomorrow : TDateTime;
2735: Function ToRightOf( const pc : TControl; piSpace : Integer) : Integer;
2736: Function ToString : string;
2737: Function TotalVariance( const Data : array of Double) : Extended;
2738: Function Trace2( AURL : string) : string;
2739: Function TrackMenu( Button : TToolButton) : Boolean;
2740: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN) : INTEGER;
2741: Function TranslateURI( const URI : string) : string;
2742: Function TranslationMatchesLanguages( Exact : Boolean) : Boolean;
2743: Function TransparentStretchBlt( DstDC : HDC; DstX,DstY,DstW,DstH:Integer; SrcDC:HDC;SrcX,SrcY,SrcW,SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer ) : Boolean;
2744: Function Trim( S : string) : string;
2745: Function Trim( S : WideString) : WideString;
2746: Function Trim(s : AnyString) : AnyString;
2747: Function TrimAllOf( ATrim, AText : String) : String;
2748: Function TrimLeft( S : string) : string;
2749: Function TrimLeft( S : WideString) : WideString;
2750: function TrimLeft(const S: string): string;
2751: Function TrimRight( S : string) : string;
2752: Function TrimRight( S : WideString) : WideString;
2753: function TrimRight(const S: string): string;
2754: function TrueBoolStrs: array of string;
2755: Function Trunc(e : Extended) : Longint;
2756: Function Trunc64(e: extended): Int64;
2757: Function TruncPower( const Base, Exponent : Float) : Float;
2758: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily) : Boolean;
2759: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily) : Boolean;
2760: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2761: Function TryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime) : Boolean;
2762: Function TryEncodeDateMonthWeek( const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean;
2763: Function TryEncodeDateTime( const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out AValue:TDateTime):Boolean;
2764: Function TryEncodeDateWeek( const AY, AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean;
2765: Function TryEncodeDayOfWeekInMonth( const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out AVal:TDateTime):Bool;
2766: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2767: Function TryFloatToDateTIme( Value : Extended; AResult : TDateTime) : Boolean;
2768: Function TryJulianToDateTIme( const AValue : Double; out ADaTeTIme : TDateTime) : Boolean;
2769: Function TryLock : Boolean;
2770: Function TryModifiedJulianToDateTIme( const AValue : Double; out ADaTeTIme : TDateTime) : Boolean;
2771: Function TryRecodeDateTIme( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond , AMilliSecond : Word; out AResult : TDateTime) : Boolean;
2772: Function TryStrToBcd( const AValue : string; var Bcd : TBcd) : Boolean;
2773: Function TryStrToConv( AText : string; out AValue : Double; out ATyPe : TConvType) : Boolean;
2774: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2775: Function TryStrToDateTIme( S : string; Value : TDateTime) : Boolean;
2776: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2777: Function TryStrToInt( const S: AnsiString; var I: Integer): Boolean;
2778: Function TryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2779: Function TwoByteToWord( AByte1, AByte2 : Byte) : Word;
2780: Function TwoCharToWord( AChar1, AChar2 : Char) : Word;
2781: Function TwoToY( const Y : Float) : Float;
2782: Function UCS4StringToWideString( const S : UCS4String) : WideString;
2783: Function UIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean;
2784: function Unassigned: Variant;
2785: Function UndoLastChange( FollowChange : Boolean) : Boolean;
2786: function UniCodeToStr(Value: string): string;

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2787: Function UnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
2788: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean)
2789: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal) : TDateTime
2790: Function UnixPathToDosPath( const Path : string) : string
2791: Function UnixToDateTime( const AValue : Int64) : TDateTime
2792: function UnixToDateTime(U: Int64): TDateTime;
2793: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
2794: Function UnlockResource( ResData: HGLOBAL) : LongBool
2795: Function UnlockVolume( var Handle : THandle) : Boolean
2796: Function UnMaskString( Mask, Value : String) : String
2797: function UpCase(ch : Char ) : Char;
2798: Function UpCaseFirst( const AStr : string) : string
2799: Function UpCaseFirstWord( const AStr : string): string
2800: Function UpdateAction( Action : TBasicAction) : Boolean
2801: Function UpdateKind : TUUpdateKind
2802: Function UPDATESTATUS : TUUPDATESTATUS
2803: Function UpperCase( S : string) : string
2804: Function Uppercase(s : AnyString) : AnyString;
2805: Function URLDecode( ASrc : string) : string
2806: Function URLEncode( const ASrc : string) : string
2807: Function UseRightToLeftAlignment : Boolean
2808: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment) : Boolean
2809: Function UseRightToLeftReading : Boolean
2810: Function UTF8CharLength( Lead : Char) : Integer
2811: Function UTF8CharSize( Lead : Char) : Integer
2812: Function UTF8Decode( const S : UTF8String) : WideString
2813: Function UTF8Encode( const WS : WideString) : UTF8String
2814: Function UTF8LowerCase( const S : UTF8String) : UTF8String
2815: Function Utf8ToAnsi( const S : UTF8String) : string
2816: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer) : string
2817: Function UTF8UpperCase( const S : UTF8String) : UTF8String
2818: Function ValidFieldIndex( FieldIndex : Integer) : Boolean
2819: Function ValidParentForm(control: TControl): TForm
2820: Function Value : Variant
2821: Function ValueExists( const Section, Ident : string) : Boolean
2822: Function ValueOf( const Key : string) : Integer
2823: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2824: Function VALUEOFKEY( const AKEY : VARIANT) : VARIANT
2825: Function VarArrayFromStrings( Strings : TStrings) : Variant
2826: Function VarArrayFromWideStrings( Strings : TWideStrings) : Variant
2827: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2828: Function VarFMTBcd : TVarType
2829: Function VarFMTBcdCreate1 : Variant;
2830: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word) : Variant;
2831: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word) : Variant;
2832: Function VarFMTBcdCreate4( const ABcd : TBcd) : Variant;
2833: Function Variance( const Data : array of Double) : Extended
2834: Function VariantAdd2( const V1 : Variant; const V2 : Variant) : Variant
2835: Function VariantAnd2( const V1 : Variant; const V2 : Variant) : Variant
2836: Function VariantDiv2( const V1 : Variant; const V2 : Variant) : Variant
2837: Function VariantGetElement( const V : Variant; i1 : integer) : Variant;
2838: Function VariantGetElement1( const V : Variant; i1, i2 : integer) : Variant;
2839: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer) : Variant;
2840: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer) : Variant;
2841: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer) : Variant;
2842: Function VariantMod2( const V1 : Variant; const V2 : Variant) : Variant
2843: Function VariantMul2( const V1 : Variant; const V2 : Variant) : Variant
2844: Function VariantNeg( const V1 : Variant) : Variant
2845: Function VariantNot( const V1 : Variant) : Variant
2846: Function VariantOr2( const V1 : Variant; const V2 : Variant) : Variant
2847: Function VariantShl2( const V1 : Variant; const V2 : Variant) : Variant
2848: Function VariantShr2( const V1 : Variant; const V2 : Variant) : Variant
2849: Function VariantSub2( const V1 : Variant; const V2 : Variant) : Variant
2850: Function VariantXor2( const V1 : Variant; const V2 : Variant) : Variant
2851: function VarIsEmpty(const V: Variant): Boolean;
2852: Function VarIsFMTBcd( const AValue : Variant) : Boolean;
2853: function VarIsNull(const V: Variant): Boolean;
2854: Function VarToBcd( const AValue : Variant) : TBcd
2855: function VarType(const V: Variant): TVarType;
2856: Function VarType( const V : Variant) : TVarType
2857: Function VarAsType( const V : Variant; AVarType : TVarType) : Variant
2858: Function VarIsType( const V : Variant; AVarType : TVarType) : Boolean;
2859: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType) : Boolean;
2860: Function VarIsByRef( const V : Variant) : Boolean
2861: Function VarIsEmpty( const V : Variant) : Boolean
2862: Procedure VarCheckEmpty( const V : Variant)
2863: Function VarIsNull( const V : Variant) : Boolean
2864: Function VarIsClear( const V : Variant) : Boolean
2865: Function VarIsCustom( const V : Variant) : Boolean
2866: Function VarIsOrdinal( const V : Variant) : Boolean
2867: Function VarIsFloat( const V : Variant) : Boolean
2868: Function VarIsNumeric( const V : Variant) : Boolean
2869: Function VarIsStr( const V : Variant) : Boolean
2870: Function VarToStr( const V : Variant) : string
2871: Function VarToStrDef( const V : Variant; const ADefault : string) : string
2872: Function VarToWideStr( const V : Variant) : WideString
2873: Function VarToWideStrDef( const V : Variant; const ADefault : WideString) : WideString
2874: Function VarToDateTime( const V : Variant) : TDateTime
2875: Function VarFromDateTime( const DateTime : TDateTime) : Variant

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2876: Function VarInRange( const AValue, AMin, AMax : Variant) : Boolean
2877: Function VarEnsureRange( const AValue, AMin, AMax : Variant) : Variant
2878: TVariantRelationship', '( vrEqual, vrLessThan, vrGreaterThanOrEqual, vrNotEqual )
2879: Function VarSameValue( const A, B : Variant) : Boolean
2880: Function VarCompareValue( const A, B : Variant) : TVariantRelationship
2881: Function VarIsEmptyParam( const V : Variant) : Boolean
2882: Function VarIsError( const V : Variant; out AResult : HRESULT) : Boolean;
2883: Function VarIsError1( const V : Variant) : Boolean;
2884: Function VarAsError( AResult : HRESULT) : Variant
2885: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant)
2886: Function VarIsArray( const A : Variant) : Boolean;
2887: Function VarIsArray1( const A : Variant; AResolveByRef : Boolean) : Boolean;
2888: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType) : Variant
2889: Function VarArrayOf( const Values : array of Variant) : Variant
2890: Function VarArrayRef( const A : Variant) : Variant
2891: Function VarTypeIsValidArrayType( const AVarType : TVarType) : Boolean
2892: Function VarTypeIsValidElementType( const AVarType : TVarType) : Boolean
2893: Function VarArrayDimCount( const A : Variant) : Integer
2894: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer
2895: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer
2896: Function VarArrayLock( const A : Variant) : __Pointer
2897: Procedure VarArrayUnlock( const A : Variant)
2898: Function VarArrayGet( const A : Variant; const Indices : array of Integer) : Variant
2899: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer)
2900: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer)
2901: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer)
2902: Function Unassigned : Variant
2903: Function Null : Variant
2904: Function VectorAdd( const V1, V2 : TFloatPoint) : TFLOATPOINT
2905: function VectorAdd(const V1,V2: TFLOATPOINT): TFLOATPOINT;
2906: Function VectorDot( const V1, V2 : TFLOATPOINT) : Double
2907: function VectorDot(const V1,V2: TFLOATPOINT): Double;
2908: Function VectorLengthSqr( const V : TFLOATPOINT) : Double
2909: function VectorLengthSqr(const V: TFLOATPOINT): Double;
2910: Function VectorMult( const V : TFLOATPOINT; const s : Double) : TFLOATPOINT
2911: function VectorMult(const V: TFLOATPOINT; const s: Double): TFLOATPOINT;
2912: Function VectorSubtract( const V1, V2 : TFLOATPOINT) : TFLOATPOINT
2913: function VectorSubtract(const V1,V2: TFLOATPOINT): TFLOATPOINT;
2914: Function Verify( AUserName : String) : String
2915: Function Versine( X : Float) : Float
2916: function VersionCheck: boolean;
2917: function VersionCheckAct: string;
2918: Function VersionLanguageID( const LangIdRec : TLangIdRec) : string
2919: Function VersionLanguageName( const LangId : Word) : string
2920: Function VersionResourceAvailable( const FileName : string) : Boolean
2921: Function Visible : Boolean
2922: function VolumeID(DriveChar: Char): string
2923: Function WaitFor( const AString : string) : string
2924: Function WaitFor( const TimeOut : Cardinal) : TJclWaitResult
2925: Function WaitFor1 : TWaitResult;
2926: Function WaitForData( Timeout : Longint) : Boolean
2927: Function WebColorNameToColor( WebColorName : string) : TColor
2928: Function WebColorStrToColor( WebColor : string) : TColor
2929: Function WebColorToRGB( WebColor : Integer) : Integer
2930: Function wGet(aURL, afile: string): boolean;'
2931: Function wGet2(aURL, afile: string): boolean;' //without file open
2932: Function WebGet(aURL, afile: string): boolean;
2933: Function WebExists: boolean; //alias to isinternet
2934: Function WeekOf( const AValue : TDateTime) : Word
2935: Function WeekOfTheMonth( const AValue : TDateTime) : Word;
2936: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word) : Word;
2937: Function WeekOfTheYear( const AValue : TDateTime) : Word;
2938: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word) : Word;
2939: Function WeeksBetween( const ANow, AThen : TDateTime) : Integer
2940: Function WeeksInAYear( const AYear : Word) : Word
2941: Function WeeksInYear( const AValue : TDateTime) : Word
2942: Function WeekSpan( const ANow, AThen : TDateTime) : Double
2943: Function WideAdjustLineBreaks( const S : WideString; Style : TTTextLineBreakStyle) : WideString
2944: Function WideCat( const x, y : WideString) : WideString
2945: Function WideCompareStr( S1, S2 : WideString) : Integer
2946: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2947: Function WideCompareText( S1, S2 : WideString) : Integer
2948: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2949: Function WideCopy( const src : WideString; index, count : Integer) : WideString
2950: Function WideDequotedStr( const S : WideString; AQuote : WideChar) : WideString
2951: Function WideEqual( const x, y : WideString) : Boolean
2952: function WideFormat(const Format: WideString; const Args: array of const): WideString)
2953: Function WideGreater( const x, y : WideString) : Boolean
2954: Function WideLength( const src : WideString) : Integer
2955: Function WideLess( const x, y : WideString) : Boolean
2956: Function WideLowerCase( S : WideString) : WideString
2957: function WideLowerCase(const S: WideString): WideString
2958: Function WidePos( const src, sub : WideString) : Integer
2959: Function WideQuotedStr( const S : WideString; Quote : WideChar) : WideString
2960: Function WideReplaceStr( const AText, AFromText, AToText : WideString) : WideString
2961: Function WideReplaceText( const AText, AFromText, AToText : WideString) : WideString
2962: Function WideSameStr( S1, S2 : WideString) : Boolean
2963: function WideSameStr(const S1: WideString; const S2: WideString): Boolean)
2964: Function WideSameText( S1, S2 : WideString) : Boolean

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2965: function WideSameText( const S1: WideString; const S2: WideString): Boolean
2966: Function WideStringReplace( const S,OldPattern, NewPattern: Widestring; Flags: TReplaceFlags): Widestring
2967: Function WideStringToUCS4String( const S : WideString) : UCS4String
2968: Function WideUpperCase( S : WideString) : WideString
2969: Function Win32BackupFile( const FileName : string; Move : Boolean) : Boolean
2970: function Win32Check(RetVal: boolean): boolean
2971: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
2972: Function Win32RestoreFile( const FileName : string) : Boolean
2973: Function Win32Type : TIidWin32Type
2974: Function WinColor( const Color32 : TColor32) : TColor
2975: function winexec(FileName: pchar; showCmd: integer): integer;
2976: Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
2977: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
2978: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer) : Boolean
2979: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64) : Boolean
2980: Function WithinPastMilliSeconds( const ANow, AThen : TDateTime; const AMilliSeconds : Int64) : Boolean
2981: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64) : Boolean
2982: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer) : Boolean
2983: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASeconds : Int64) : Boolean
2984: Function WithinPastWeeks( const ANow, AThen : TDateTime; const AWeeks : Integer) : Boolean
2985: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer) : Boolean
2986: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar) : DWORD
2987: Function WordToStr( const Value : Word) : String
2988: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint) : Boolean
2989: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string) : Boolean
2990: Procedure GetWordGridFormatValues( Proc : TGetStrProc)
2991: Function WorkArea : Integer
2992: Function WrapText( Line : string; MaxCol : Integer) : string;
2993: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer) : string;
2994: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint) : HResult
2995: function Write(Buffer:String;Count:LongInt):LongInt
2996: Function WriteClient( var Buffer, Count : Integer) : Integer
2997: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean) : Cardinal
2998: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string) : Boolean
2999: Function WriteString( const AString : string) : Boolean
3000: Function WStrGet(var S : AnyString; I : Integer) : WideChar;
3001: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list) : Integer
3002: Function wsprintf( Output : PChar; Format : PChar) : Integer
3003: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string) : string
3004: Function XmlTimeToStr( const XmlTime : string; const Format : string) : string
3005: Function XorDecode( const Key, Source : string) : string
3006: Function XorEncode( const Key, Source : string) : string
3007: Function XorString( const Key, Src : ShortString) : ShortString
3008: Function Yield : Bool
3009: Function YearOf( const AValue : TDateTime) : Word
3010: Function YearsBetween( const ANow, AThen : TDateTime) : Integer
3011: Function YearSpan( const ANow, AThen : TDateTime) : Double
3012: Function Yesterday : TDateTime
3013: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3014: Function( const Name : string; Proc : TUserFunction)
3015: Function using Special_Scholz from 3.8.5.0
3016: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3017: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3018: Function FloatToTime2Dec(value:Extended):Extended;
3019: Function MinToStd(value:Extended):Extended;
3020: Function MinToStdAsString(value:Extended):String;
3021: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3022: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3023: Function Round2Dec (zahl:Extended):Extended;
3024: Function GetAngle(x,y:Extended):Double;
3025: Function AddAngle(a1,a2:Double):Double;
3026:
3027: ****
3028: unit UPSI_StText;
3029: ****
3030: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
3031: Function TextFileSize( var F : TextFile) : LongInt
3032: Function TextPos( var F : TextFile) : LongInt
3033: Function TextFlush( var F : TextFile) : Boolean
3034:
3035: ****
3036: from JvVCLUtils;
3037: ****
3038: { Windows resources (bitmaps and icons) VCL-oriented routines }
3039: procedure DrawBitmapTransparent(Dest: TCanvas; DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3040: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX,
  DstY:Int;SrcRect:TRect;Bitmap:TBitmap;TransparColor:TColor);
3041: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3042: function MakeBitmap(ResID: PChar): TBitmap;
3043: function MakeBitmapID(ResID: Word): TBitmap;
3044: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3045: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3046: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3047: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3048: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3049: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3050: function AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);

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3052: {$IFDEF WIN32}
3053: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
3054:   X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3055: {$ENDIF}
3056: function MakeIcon(ResID: PChar): TIcon;
3057: function MakeIconID(ResID: Word): TIcon;
3058: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3059: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3060: {$IFDEF WIN32}
3061: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3062: {$ENDIF}
3063: { Service routines }
3064: procedure NotImplemented;
3065: procedure ResourceNotFound(ResID: PChar);
3066: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3067: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3068: function PaletteColor(Color: TColor): Longint;
3069: function WidthOf(R: TRect): Integer;
3070: function HeightOf(R: TRect): Integer;
3071: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3072: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3073: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3074: procedure Delay(MSecs: Longint);
3075: procedure CenterControl(Control: TControl);
3076: Function PaletteEntries( Palette : HPALETTE ) : Integer
3077: Function WindowClassName( Wnd : HWND ) : string
3078: Function ScreenWorkArea : TRect
3079: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer )
3080: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean )
3081: Procedure ActivateWindow( Wnd : HWND )
3082: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer )
3083: Procedure CenterWindow( Wnd : HWND )
3084: Procedure ShadeRect( DC : HDC; const Rect : TRect )
3085: Procedure KillMessage( Wnd : HWND; Msg : Cardinal )
3086: Function DialogsToPixelsX( Dlgs : Word ) : Word
3087: Function DialogsToPixelsY( Dlgs : Word ) : Word
3088: Function PixelsToDialogsX( Pixs : Word ) : Word
3089: Function PixelsToDialogsY( Pixs : Word ) : Word
3090: {$IFDEF WIN32}
3091: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3092: function MakeVariant(const Values: array of Variant): Variant;
3093: {$ENDIF}
3094: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3095: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3096: function MsgDlg(const Msg:string; ATType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3097: {$IFDEF CBuilder}
3098: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3099: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3100: {$ELSE}
3101: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3102: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3103: {$ENDIF CBuilder}
3104: function IsForegroundTask: Boolean;
3105: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3106: function GetAveCharSize(Canvas: TCanvas): TPoint;
3107: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3108: procedure FreeUnusedOle;
3109: procedure Beep;
3110: function GetWindowsVersionJ: string;
3111: function LoadDLL(const LibName: string): THandle;
3112: function RegisterServer(const ModuleName: string): Boolean;
3113: {$IFDEF WIN32}
3114: function IsLibrary: Boolean;
3115: {$ENDIF}
3116: { Gradient filling routine }
3117: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3118: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3119: { String routines }
3120: function GetEnvVar(const VarName: string): string;
3121: function AnsiUpperFirstChar(const S: string): string;
3122: function StringToPChar(var S: string): PChar;
3123: function StrPAalloc(const S: string): PChar;
3124: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3125: function DropT(const S: string): string;
3126: { Memory routines }
3127: function AllocMemo(Size: Longint): Pointer;
3128: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3129: procedure FreeMemo(var fpBlock: Pointer);
3130: function GetMemoSize(fpBlock: Pointer): Longint;
3131: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3132: {$IFNDEF COMPILER5_UP}
3133: procedure FreeAndNil(var Obj);
3134: {$ENDIF}
3135: // from PNGloader
3136: Function OptimizeForPNG(Image:TLinearBitmap;QuantizationSteps:Integer;TransparentColor:TColor):Integer
3137: Procedure TransformRGB2LOCO( Image : TLinearBitmap)
3138: Procedure TransformLOCO2RGB( Image : TLinearBitmap)
3139: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)

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3140: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : 
  TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3141:   Function IsAnAllResult( const AModalResult : TModalResult) : Boolean
3142:   Function InitWndProc( HWindow : HWnd; Message, WParam : Longint; LParam : Longint) : Longint
3143:   AddConstantN('CTL3D_ALL','LongWord').SetUInt($FFFF);
3144: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)
3145: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint) : Longint
3146: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3147: Procedure SetIMEMode( hWnd : HWND; Mode : TImeMode)
3148: Procedure SetIMEName( Name : TImeName)
3149: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean) : Boolean
3150: Function Imm32GetContext( hWnd : HWND) : HIMC
3151: Function Imm32ReleaseContext( hWnd : HWND; hIMC : HIMC) : Boolean
3152: Function Imm32GetConversionStatus( hIMC : HIMC; var Conversion, Sentence : longword) : Boolean
3153: Function Imm32SetConversionStatus( hIMC : HIMC; Conversion, Sentence : longword) : Boolean
3154: Function Imm32SetOpenStatus( hIMC : HIMC; fOpen : Boolean) : Boolean
3155: // Function Imm32SetCompositionWindow( hIMC : HIMC; lpCompForm : PCOMPOSITIONFORM) : Boolean
3156: //Function Imm32SetCompositionFont( hIMC : HIMC; lpLogFont : PLOGFONTA) : Boolean
3157: Function Imm32GetCompositionString(hIMC:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3158: Function Imm32IsIME( hkl : longword) : Boolean
3159: Function Imm32NotifyIME( hIMC : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3160: Procedure DragDone( Drop : Boolean)
3161:
3162:
3163: //*****added from jvvcutils
3164: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3165: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3166: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3167: function IsPositiveResult(Value: TModalResult): Boolean;
3168: function IsNegativeResult(Value: TModalResult): Boolean;
3169: function IsAbortResult(const Value: TModalResult): Boolean;
3170: function StripAllFromResult(const Value: TModalResult): TModalResult;
3171: // returns either BrightColor or DarkColor depending on the luminance of AColor
3172: // This function gives the same result (AFAIK) as the function used in Windows to
3173: // calculate the desktop icon text color based on the desktop background color
3174: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3175: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3176:
3177: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3178:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3179:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3180:   var LinkName: string; Scale: Integer = 100); overload;
3181: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3182:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3183:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3184:   var LinkName: string; Scale: Integer = 100); overload;
3185: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3186:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3187: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3188:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3189:   Scale: Integer = 100): string;
3190: function HTMLPlainText(const Text: string): string;
3191: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3192:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3193: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3194:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3195: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3196: function HTMLPrepareText(const Text: string): string;
3197:
3198: ***** uPSI_JvAppUtils;
3199: Function GetDefaultSection( Component : TComponent ) : string
3200: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean)
3201: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string )
3202: Function GetDefaultIniName : string
3203: //'OnGetDefaultIniName', 'OnGetDefaultIniName');
3204: Function GetDefaultIniRegKey : string
3205: Function FindForm( FormClass : TFormClass ) : TForm
3206: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm
3207: Function ShowDialog( FormClass : TFormClass ) : Boolean
3208: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm
3209: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean)
3210: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean)
3211: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile)
3212: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string)
3213: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string)
3214: Function GetUniqueFileNameInDir( const Path, FileNameMask : string ) : string
3215: Function StrToIniStr( const Str : string ) : string
3216: Function IniStrToStr( const Str : string ) : string
3217: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string
3218: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string)
3219: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint
3220: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint )
3221: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean
3222: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean )
3223: Procedure IniReadSections( IniFile : TObject; Strings : TStrings)
3224: Procedure IniEraseSection( IniFile : TObject; const Section : string )
3225: Procedure IniDeleteKey( IniFile : TObject; const Section, Ident : string )
3226: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint )
3227: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint )

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3228: Procedure AppTaskbarIcons( AppOnly : Boolean)
3229: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string)
3230: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string)
3231: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject)
3232: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject)
3233: ***** uPSI_JvDBUtils;
3234: Function CreateLocate( DataSet : TDataSet) : TJvLocateObject
3235: Function IsDataSetEmpty( DataSet : TDataSet) : Boolean
3236: Procedure RefreshQuery( Query : TDataSet)
3237: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3238: Function DataSetSectionName( DataSet : TDataSet) : string
3239: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string)
3240: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool)
3241: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
  Options: TLocateOptions) : Boolean
3242: Procedure SaveFields( DataSet : TDataSet; IniFile : TIniFile)
3243: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIniFile; RestoreVisible : Boolean)
3244: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean)
3245: Function ConfirmDelete : Boolean
3246: Procedure ConfirmDataSetCancel( DataSet : TDataSet)
3247: Procedure CheckRequiredField( Field : TField)
3248: Procedure CheckRequiredFields( const Fields : array of TField)
3249: Function DateToSQL( Value : TDateTime) : string
3250: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string) : string
3251: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string) : string
3252: Function FormatSQLNumericRange(const FieldName:string;LowVal,HighVal,LowEmpty,
  HighEmpty:Double;Inclusive:Bool):string
3253: Function StrMaskSQL( const Value : string) : string
3254: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3255: Function FormatAnsiSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3256: Procedure _DBError( const Msg : string)
3257: Const ('TrueExpr','String '0=0
3258: Const ('sdfStandard16','String ''''''mm''/''dd''/''YYYY'''')
3259: Const ('sdfStandard32','String ''''''dd/mm/yyyy'''')
3260: Const ('sdfOracle','String ''TO_DATE('''dd/mm/YYYY'''', ''DD/MM/YYYY'')')
3261: Const ('sdfInterbase','String ''CAST('''mm''/''dd''/''yyyy''' AS DATE)'')
3262: Const ('sdfMSSQL','String ''CONVERT(datetime, ''''mm''/''dd''/''yyyy'''', 103)'')
3263: AddTypeS('Largeint', 'Longint'
3264: addTypeS('TIEFException', '(ErNoImport, erCannotImport, erInvalidType, ErInternalError, '+
3265:   'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
3266:   'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
3267:   'erVersionError, ErDivideByZero, ErMathError,erCouldNotCallProc, erOutOfRecordRange, '+
3268:   'erOutOfMemory,erException,erNullPointerException,erNullVariantError,erInterfaceNotSupportedError);
3269: (*-----*)
3270: procedure SIRегистre_JclIniFiles(CL: TPSPascalCompiler);
3271: begin
3272:   Function JIniReadBool( const FileName, Section, Line : string) : Boolean
3273:   Function JIniReadInteger( const FileName, Section, Line : string) : Integer
3274:   Function JIniReadString( const FileName, Section, Line : string) : string
3275:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3276:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3277:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3278:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3279:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3280: end;
3281: (* == compile-time registration functions == *)
3282: (*-----*)
3283: (*-----*)
3284: procedure SIRегистre_JclDateTime(CL: TPSPascalCompiler);
3285: begin
3286:   'UnixTimeStart','LongInt'( 25569);
3287:   Function JEncodeDate( const Year : Integer; Month, Day : Word) : TDateTime
3288:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word);
3289:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word);
3290:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer);
3291:   Function CenturyOfDate( const Date : TDateTime) : Integer
3292:   Function CenturyBaseYear( const Date : TDateTime) : Integer
3293:   Function DayOfDate( const Date : TDateTime) : Integer
3294:   Function MonthOfDate( const Date : TDateTime) : Integer
3295:   Function YearOfDate( const Date : TDateTime) : Integer
3296:   Function JDayOfTheYear( const Date : TDateTime; var Year : Integer) : Integer;
3297:   Function DayOfTheYear1( const Date : TDateTime) : Integer;
3298:   Function DayOfTheYearToDate( const Year, Day : Integer) : TDateTime
3299:   Function HourOfDay( const Date : TDateTime) : Integer
3300:   Function MinuteOfDay( const Date : TDateTime) : Integer
3301:   Function SecondOfDay( const Date : TDateTime) : Integer
3302:   Function GetISOYearNumberOfDays( const Year : Word) : Word
3303:   Function IsISOLongYear( const Year : Word) : Boolean;
3304:   Function IsISOLongYear1( const Date : TDateTime) : Boolean;
3305:   Function ISODayOfWeek( const Date : TDateTime) : Word
3306:   Function JISOWeekNumber( Date : TDateTime; var YearOfWeekNumber, WeekDay : Integer) : Integer;
3307:   Function ISOWeekNumber1( Date : TDateTime; var YearOfWeekNumber : Integer) : Integer;
3308:   Function ISOWeekNumber2( Date : TDateTime) : Integer;
3309:   Function ISOWeekToDate( const Year, Week, Day : Integer) : TDateTime
3310:   Function JIsLeapYear( const Year : Integer) : Boolean;
3311:   Function IsLeapYear1( const Date : TDateTime) : Boolean;
3312:   Function JDaysInMonth( const Date : TDateTime) : Integer
3313:   Function Make4DigitYear( Year, Pivot : Integer) : Integer
3314:   Function JMakeYear4Digit( Year, WindowsillYear : Integer) : Integer

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3315: Function JEasterSunday( const Year : Integer ) : TDateTime // TDosDateTime', 'Integer
3316: Function JFormatDateTime( Form : string; DateTime : TDateTime ) : string
3317: Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3318: Function FATDatesEqual( const FileTime1, FileTime2 : TFileTime ) : Boolean;
3319: Function HoursToMSEcs( Hours : Integer ) : Integer
3320: Function MinutesToMSEcs( Minutes : Integer ) : Integer
3321: Function SecondsToMSEcs( Seconds : Integer ) : Integer
3322: Function TimeOfDateToSeconds( DateTime : TDateTime ) : Integer
3323: Function TimeOfDateToMSEcs( DateTime : TDateTime ) : Integer
3324: Function DateTimeToLocalDateTime( DateTime : TDateTime ) : TDateTime
3325: Function LocalDateTimeToDate( DateTime : TDateTime ) : TDateTime
3326: Function DateToDosDateTime( const Date : TDateTime ) : TDosDateTime
3327: Function JDATimeToFileTime( DateTime : TDateTime ) : TFileTime
3328: Function JDATimeToSystemTime( DateTime : TDateTime ) : TSystemTime;
3329: Procedure DateTimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime );
3330: Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3331: Function DosDateTimeToDate( const DosTime : TDosDateTime ) : TDateTime
3332: Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3333: Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3334: Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3335: Function DosDateTimeToStr( DateTime : Integer ) : string
3336: Function JFileTimeToDate( const FileTime : TFileTime ) : TDateTime
3337: Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3338: Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3339: Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3340: Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3341: Procedure FileTimeToSystemTime1( const FileTime : TFileTime; var ST : TSystemTime );
3342: Function FileTimeToStr( const FileTime : TFileTime ) : string
3343: Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3344: Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3345: Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3346: Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3347: Function CreationDateOfFile( const Sr : TSearchRec ) : TDateTime
3348: Function LastAccessDateOfFile( const Sr : TSearchRec ) : TDateTime
3349: Function LastWriteDateOfFile( const Sr : TSearchRec ) : TDateTime
3350: TJclUnixTime32', 'Longword
3351: Function JDATimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3352: Function JUnixTimeToDate( const UnixTime : TJclUnixTime32 ) : TDateTime
3353: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3354: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3355: Function JNullStamp : TTimeStamp
3356: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3357: Function JEQualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3358: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3359: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3360: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3361: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3362: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3363: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3364: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3365: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3366: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3367: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3368: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3369: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3370: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3371: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3372: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3373: FindClass('TOBJECT'), 'EJclDateTimeError
3374: end;
3375:
3376: procedure SJRegister_JclMiscel2(CL: TPSPascalCompiler);
3377: begin
3378: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3379: Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3380: Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3381: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3382: Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3383: TJclKillLevel', '( k1Normal, k1NoSignal, k1TimeOut )
3384: Function ExitWindows( ExitCode : Cardinal ) : Boolean
3385: Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3386: Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3387: Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3388: Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3389: Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3390: Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3391: Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;;
3392: Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;;
3393: Function AbortShutDown : Boolean;
3394: Function AbortShutDown1( const MachineName : string ) : Boolean;
3395: TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3396: TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3397: Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3398: FindClass('TOBJECT'), 'EJclCreateProcessError
3399: Procedure CreateProcAsUser( const UserDomain, UserName, Password, CommandLine : string )
3400: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar );
3401: // with Add(EJclCreateProcessError) do
3402: end;

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3403:
3404:
3405: procedure SIRegister_JclAnsiStrings(CL: TPSPPascalCompiler);
3406: begin
3407:   //''AnsiSigns','Set').SetSet(['-', '+']);
3408:   'C1_UPPER','LongWord( $0001);
3409:   'C1_LOWER','LongWord( $0002);
3410:   'C1_DIGIT','LongWord').SetUInt( $0004);
3411:   'C1_SPACE','LongWord').SetUInt( $0008);
3412:   'C1_PUNCT','LongWord').SetUInt( $0010);
3413:   'C1_CNTRL','LongWord').SetUInt( $0020);
3414:   'C1_BLANK','LongWord').SetUInt( $0040);
3415:   'C1_XDIGIT','LongWord').SetUInt( $0080);
3416:   'C1_ALPHA','LongWord').SetUInt( $0100);
3417:   AnsiChar', 'Char
3418:   Function StrIsAlpha( const S : AnsiString) : Boolean
3419:   Function StrIsAlphaNum( const S : AnsiString) : Boolean
3420:   Function StrIsAlphaNumUnderscore( const S : AnsiString) : Boolean
3421:   Function StrContainsChars(const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean) : Boolean
3422:   Function StrConsistsOfNumberChars( const S : AnsiString) : Boolean
3423:   Function StrIsDigit( const S : AnsiString) : Boolean
3424:   Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet) : Boolean
3425:   Function StrSame( const S1, S2 : AnsiString) : Boolean
3426:   //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar) : AnsiString
3427:   Function StrCharPosLower( const S : AnsiString; CharPos : Integer) : AnsiString
3428:   Function StrCharPosUpper( const S : AnsiString; CharPos : Integer) : AnsiString
3429:   Function StrDoubleQuote( const S : AnsiString) : AnsiString
3430:   Function StrEnsureNoPrefix( const Prefix, Text : AnsiString) : AnsiString
3431:   Function StrEnsureNoSuffix( const Suffix, Text : AnsiString) : AnsiString
3432:   Function StrEnsurePrefix( const Prefix, Text : AnsiString) : AnsiString
3433:   Function StrEnsureSuffix( const Suffix, Text : AnsiString) : AnsiString
3434:   Function StrEscapedToString( const S : AnsiString) : AnsiString
3435:   Function JStrLower( const S : AnsiString) : AnsiString
3436:   Procedure StrLowerInPlace( var S : AnsiString)
3437:   //Procedure StrLowerBuff( S : PAnsiChar)
3438:   Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer);
3439:   Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar) : AnsiString
3440:   Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar) : AnsiString
3441:   Function StrProper( const S : AnsiString) : AnsiString
3442:   //Procedure StrProperBuff( S : PAnsiChar)
3443:   Function StrQuote( const S : AnsiString; C : AnsiChar) : AnsiString
3444:   Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3445:   Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3446:   Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3447:   Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar) : AnsiString
3448:   Function StrReplaceChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3449:   Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;
3450:   Function StrRepeat( const S : AnsiString; Count : Integer) : AnsiString
3451:   Function StrRepeatLength( const S : AnsiString; const L : Integer) : AnsiString
3452:   Function StrReverse( const S : AnsiString) : AnsiString
3453:   Procedure StrReverseInPlace( var S : AnsiString)
3454:   Function StrSingleQuote( const S : AnsiString) : AnsiString
3455:   Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet) : AnsiString
3456:   Function StrStringToEscaped( const S : AnsiString) : AnsiString
3457:   Function StrStripNonNumberChars( const S : AnsiString) : AnsiString
3458:   Function StrToHex( const Source : AnsiString) : AnsiString
3459:   Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar) : AnsiString
3460:   Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3461:   Function StrTrimCharRight( const S : AnsiString; C : AnsiChar) : AnsiString
3462:   Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet) : AnsiString
3463:   Function StrTrimQuotes( const S : AnsiString) : AnsiString
3464:   Function JStrUpper( const S : AnsiString) : AnsiString
3465:   Procedure StrUpperInPlace( var S : AnsiString)
3466:   //Procedure StrUpperBuff( S : PAnsiChar)
3467:   Function StrOemToAnsi( const S : AnsiString) : AnsiString
3468:   Function StrAnsiToOem( const S : AnsiString) : AnsiString
3469:   Procedure StrAddRef( var S : AnsiString)
3470:   Function StrAllocSize( const S : AnsiString) : Longint
3471:   Procedure StrDecRef( var S : AnsiString)
3472:   //Function StrLen( S : PAnsiChar) : Integer
3473:   Function StrLength( const S : AnsiString) : Longint
3474:   Function StrRefCount( const S : AnsiString) : Longint
3475:   Procedure StrResetLength( var S : AnsiString)
3476:   Function StrCharCount( const S : AnsiString; C : AnsiChar) : Integer
3477:   Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet) : Integer
3478:   Function StrStrCount( const S, SubS : AnsiString) : Integer
3479:   Function StrCompare( const S1, S2 : AnsiString) : Integer
3480:   Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer) : Integer
3481:   //Function StrFillChar( const C : AnsiChar; Count : Integer) : AnsiString;
3482:   Function StrFillChar1( const C : Char; Count : Integer) : AnsiString;
3483:   Function StrFillChar( const C: Char; Count: Integer): string';
3484:   Function IntFillChar( const I: Integer; Count: Integer): string');
3485:   Function ByteFillChar( const B: Byte; Count: Integer): string';
3486:   Function ArrFillChar( const AC: Char; Count: Integer): TCharArray;';
3487:   Function ArrByteFillChar( const AB: Char; Count: Integer): TByteArray;
3488:   Function StrFind( const Substr, S : AnsiString; const Index : Integer) : Integer
3489:   //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString) : Boolean
3490:   Function StrIndex( const S : AnsiString; const List : array of AnsiString) : Integer
3491:   Function StrILastPos( const SubStr, S : AnsiString) : Integer

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3492: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3493: Function StrIsOneOf( const S : AnsiString; const List : array of AnsiString ) : Boolean
3494: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3495: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3496: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3497: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3498: Function StrNPos( const S, SubStr : AnsiString; N : Integer ) : Integer
3499: Function StrPrefixIndex( const S : AnsiString; const Prefixes : array of AnsiString ) : Integer
3500: Function StrSearch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3501: //Function StrAfter( const SubStr, S : AnsiString ) : AnsiString
3502: //Function StrBefore( const SubStr, S : AnsiString ) : AnsiString
3503: Function StrBetween( const S : AnsiString; const Start, Stop : AnsiChar ) : AnsiString
3504: Function StrChopRight( const S : AnsiString; N : Integer ) : AnsiString
3505: Function StrLeft( const S : AnsiString; Count : Integer ) : AnsiString
3506: Function StrMid( const S : AnsiString; Start, Count : Integer ) : AnsiString
3507: Function StrRestOf( const S : AnsiString; N : Integer ) : AnsiString
3508: Function StrRight( const S : AnsiString; Count : Integer ) : AnsiString
3509: Function CharEqualNoCase( const C1, C2 : AnsiChar ) : Boolean
3510: Function CharIsAlpha( const C : AnsiChar ) : Boolean
3511: Function CharIsAlphaNum( const C : AnsiChar ) : Boolean
3512: Function CharIsBlank( const C : AnsiChar ) : Boolean
3513: Function CharIsControl( const C : AnsiChar ) : Boolean
3514: Function CharIsDelete( const C : AnsiChar ) : Boolean
3515: Function CharIsDigit( const C : AnsiChar ) : Boolean
3516: Function CharIsLower( const C : AnsiChar ) : Boolean
3517: Function CharIsNumberChar( const C : AnsiChar ) : Boolean
3518: Function CharIsPrintable( const C : AnsiChar ) : Boolean
3519: Function CharIsPunctuation( const C : AnsiChar ) : Boolean
3520: Function CharIsReturn( const C : AnsiChar ) : Boolean
3521: Function CharIsSpace( const C : AnsiChar ) : Boolean
3522: Function CharIsUpper( const C : AnsiChar ) : Boolean
3523: Function CharIsWhiteSpace( const C : AnsiChar ) : Boolean
3524: Function CharType( const C : AnsiChar ) : Word
3525: Function CharHex( const C : AnsiChar ) : Byte
3526: Function CharLower( const C : AnsiChar ) : AnsiChar
3527: Function CharUpper( const C : AnsiChar ) : AnsiChar
3528: Function CharToggleCase( const C : AnsiChar ) : AnsiChar
3529: Function CharPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3530: Function CharLastPos( const S : AnsiString; const C : AnsiChar; const Index : Integer ) : Integer
3531: Function CharIPos( const S : AnsiString; C : AnsiChar; const Index : Integer ) : Integer
3532: Function CharReplace( var S : AnsiString; const Search, Replace : AnsiChar ) : Integer
3533: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3534: Procedure StrToStrings( S, Sep : AnsiString; const List : TStrings; const AllowEmptyString : Boolean )
3535: Function StringsToStr( const List:TStrings;const Sep:AnsiString;const AllowEmptyString:Bool ):AnsiString;
3536: Procedure TrimStrings( const List : TStrings; DeleteIfEmpty : Boolean )
3537: Procedure TrimStringsRight( const List : TStrings; DeleteIfEmpty : Boolean )
3538: Procedure TrimStringsLeft( const List : TStrings; DeleteIfEmpty : Boolean )
3539: Function AddStringToStrings( const S:AnsiString;Strings:TStrings; const Unique:Boolean ):Boolean
3540: Function BooleanToStr( B : Boolean ) : AnsiString
3541: Function FileToString( const FileName : AnsiString ) : AnsiString
3542: Procedure StringToFile( const FileName, Contents : AnsiString; Append : Boolean )
3543: Function StrToken( var S : AnsiString; Separator : AnsiChar ) : AnsiString
3544: Procedure StrTokens( const S : AnsiString; const List : TStrings )
3545: Procedure StrTokenToStrings( S : AnsiString; Separator : AnsiChar; const List : TStrings )
3546: //Function StrWord( var S : PAnsiChar; out Word : AnsiString ) : Boolean
3547: Function StrToFloatSafe( const S : AnsiString ) : Float
3548: Function StrToIntSafe( const S : AnsiString ) : Integer
3549: Procedure StrNormIndex( const StrLen : Integer; var Index : Integer; var Count : Integer );
3550: Function ArrayOf( List : TStrings ) : TDynStringArray;
3551: EJclStringError', 'EJclError
3552: function IsClass(Address: TObject): Boolean;
3553: function IsObject(Address: TObject): Boolean;
3554: // Console Utilities
3555: //Function ReadKey: Char;
3556: function IntToStrZeroPad(Value, Count: Integer): AnsiString;
3557: function JclGUIDToString(const GUID: TGUID): string;
3558: function JclStringToGUID(const S: string): TGUID;
3559:
3560: end;
3561:
3562:
3563: ***** uPSI_JvDBUtil;
3564: Procedure ExecuteSQLScript(Base:TDataBase; const Script: string; const Commit:TCommit;OnProgress:TOnProgress; const UserData : Integer)
3565: Function GetQueryResult( const DatabaseName, SQL : string ) : Variant
3566: Function GetStoredProcedureResult( const ADatabaseName, AStoredProcName : string; AParams : array of Variant; const AResultName : string ) : Variant
3567: //Function StrFieldDesc( Field : FLDesc ) : string
3568: Function Var2Type( V : Variant; const VarType : Integer ) : Variant
3569: Procedure CopyRecord( DataSet : TDataSet )
3570: //Procedure AddReference( Tbl : TTable; RefName : string; RefField : Word; MasterTable : string; MasterField : Word; ModOp, DelOp : RINTQual )
3571: Procedure AddMasterPassword( Table : TTable; pswd : string )
3572: Procedure PackTable( Table : TTable )
3573: Procedure PackEncryptedTable( Table : TTable; pswd : string )
3574: Function EncodeQuotes( const S : string ) : string
3575: Function Cmp( const S1, S2 : string ) : Boolean
3576: Function SubStr( const S : string; const Index : Integer; const Separator : string ) : string
3577: Function SubStrEnd( const S : string; const Index : Integer; const Separator : string ) : string

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3578: Function ReplaceString( S : string; const OldPattern, NewPattern : string) : string
3579: Procedure GetXYByPos( const S : string; const Pos : Integer; var X, Y : Integer)
3580: *****uPSI_JvJvBDEUtils*****
3581: //JvBDEUtils
3582: Function CreateDbLocate : TJvLocateObject
3583: //Function CheckOpen( Status : DBIResult) : Boolean
3584: Procedure FetchAllRecords( DataSet : TBDEDataSet)
3585: Function TransActive( Database : TDatabase) : Boolean
3586: Function AsyncQrySupported( Database : TDatabase) : Boolean
3587: Function GetQuoteChar( Database : TDatabase) : string
3588: Procedure ExecuteQuery( const DbName, QueryText : string)
3589: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string)
3590: Function FieldLogicMap( FldType : TFieldType) : Integer
3591: Function FieldSubtypeMap( FldType : TFieldType) : Integer Value : string; Buffer : Pointer)
3592: Function GetAliasPath( const AliasName : string) : string
3593: Function IsDirectory( const DatabaseName : string) : Boolean
3594: Function GetBdeDirectory : string
3595: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent) : Boolean
3596: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string) : Boolean
3597: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string) : Boolean
3598: Function DataSetRecNo( DataSet : TDataSet) : Longint
3599: Function DataSetRecordCount( DataSet : TDataSet) : Longint
3600: Function DataSetPositionStr( DataSet : TDataSet) : string
3601: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean)
3602: Function CurrentRecordDeleted( DataSet : TBDEDataSet) : Boolean
3603: Function IsFilterApplicable( DataSet : TDataSet) : Boolean
3604: Function IsBookmarkStable( DataSet : TBDEDataSet) : Boolean
3605: Procedure SetIndex( Table : TTable; const IndexFieldNames : string)
3606: Procedure RestoreIndex( Table : TTable)
3607: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const)
3608: Procedure PackTable( Table : TTable)
3609: Procedure ReindexTable( Table : TTable)
3610: Procedure BdefFlushBuffers
3611: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer) : Pointer
3612: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string)
3613: Procedure DbNotSupported
3614: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint)
3615: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
  AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter,AsciiSeparator:Char;MaxRecordCount:Longint);
3616: Procedure
  ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3617: Procedure InitRSRUN(Database: TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3618: *****uPSI_JvDateUtil*****
3619: function CurrentYear: Word;
3620: function IsLeapYear(AYear: Integer): Boolean;
3621: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3622: function FirstDayOfPrevMonth: TDateTime;
3623: function LastDayOfPrevMonth: TDateTime;
3624: function FirstDayOfNextMonth: TDateTime;
3625: function ExtractDay(ADate: TDateTime): Word;
3626: function ExtractMonth(ADate: TDateTime): Word;
3627: function ExtractYear(ADate: TDateTime): Word;
3628: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3629: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3630: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3631: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3632: function ValidDate(ADate: TDateTime): Boolean;
3633: procedure DateDiff(Datel, Date2: TDateTime; var Days, Months, Years: Word);
3634: function MonthsBetween(Datel, Date2: TDateTime): Double;
3635: function DaysInPeriod(Datel, Date2: TDateTime): Longint;
3636: { Count days between Datel and Date2 + 1, so if Datel = Date2 result = 1 }
3637: function DaysBetween(Datel, Date2: TDateTime): Longint;
3638: { The same as previous but if Date2 < Datel result = 0 }
3639: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3640: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3641: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3642: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3643: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3644: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3645: { String to date conversions }
3646: function GetDateOrder(const DateFormat: string): TDateOrder;
3647: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3648: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3649: function StrToDateFmtDef(const DateFormat, S: string; TDateTime);
3650: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3651: function DefDateFormat(FourDigitYear: Boolean): string;
3652: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3653: -----
3654: ***** JvUtils*****
3655: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3656: function GetWordOnPos(const S: string; const P: Integer): string;
3657: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3658: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3659: { SubStr returns substring from string, S, separated with Separator string}
3660: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3661: { SubStrEnd same to previous function but Index numerated from the end of string }
3662: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3663: { Subword returns next Word from string, P, and offsets Pointer to the end of Word, P2 }

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3664: function SubWord(P: PChar; var P2: PChar): string;
3665: { NumberByWord returns the text representation of
3666:   the number, N, in normal russian language. Was typed from Monitor magazine }
3667: function NumberByWord(const N: Longint): string;
3668: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3669: //the symbol Pos is pointed. Lines separated with #13 symbol }
3670: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3671: { GetXYByPos is same to previous function, but returns X position in line too}
3672: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3673: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3674: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3675: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3676: function ConcatSep(const S, S2, Separator: string): string;
3677: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3678: function ConcatLeftSep(const S, S2, Separator: string): string;
3679: { MinimizeString truns long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3680: function MinimizeString(const S: string; const MaxLen: Integer): string;
3681: { Next 4 function for russian chars transliterating.
3682:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3683: procedure Dos2Win(var S: string);
3684: procedure Win2Dos(var S: string);
3685: function Dos2WinRes(const S: string): string;
3686: function Win2DosRes(const S: string): string;
3687: function Win2Koi(const S: string): string;
3688: { Spaces returns string consists on N space chars }
3689: function Spaces(const N: Integer): string;
3690: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3691: function AddSpaces(const S: string; const N: Integer): string;
3692: { function LastDate for russian users only } { returns date relative to current date: '' }
3693: function LastDate(const Dat: TDateTime): string;
3694: { CurrencyToStr format currency, Cur, using ffcurrency float format}
3695: function CurrencyToStr(const Cur: currency): string;
3696: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3697: function Cmp(const S1, S2: string): Boolean;
3698: { StringCat add S2 string to S1 and returns this string }
3699: function StringCat(var S1: string; S2: string): string;
3700: { HasChar returns True, if Char, Ch, contains in string, S }
3701: function HasChar(const Ch: Char; const S: string): Boolean;
3702: function HasAnyChar(const Chars: string; const S: string): Boolean;
3703: function CharInSet(const Ch: Char; const SetOfChar: TSetofChar): Boolean;
3704: function CountOfChar(const Ch: Char; const S: string): Integer;
3705: function DefStr(const S: string; Default: string): string;
3706: {**** files routines}
3707: { GetWinDir returns Windows folder name }
3708: function GetWinDir: TFileName;
3709: function GetSysDir: String;
3710: { GetTempDir returns Windows temporary folder name }
3711: function GetTempDir: string;
3712: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3713: function GenTempFileName(FileName: string): string;
3714: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3715: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3716: { ClearDir clears folder Dir }
3717: function ClearDir(const Dir: string): Boolean;
3718: { DeleteDir clears and than delete folder Dir }
3719: function DeleteDir(const Dir: string): Boolean;
3720: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3721: function FileEquMask(FileName, Mask: TFileName): Boolean;
3722: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3723:   Masks must be separated with comma (';') }
3724: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3725: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3726: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3727: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3728: { FileGetInfo fills SearchRec record for specified file attributes}
3729: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3730: { HasSubFolder returns True, if folder APath contains other folders }
3731: function HasSubFolder(APath: TFileName): Boolean;
3732: { IsEmptyFolder returns True, if there are no files or folders in given folder, APPath}
3733: function IsEmptyFolder(APath: TFileName): Boolean;
3734: { AddSlash add slash Char to Dir parameter, if needed }
3735: procedure AddSlash(var Dir: TFileName);
3736: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3737: function AddSlash2(const Dir: TFileName): string;
3738: { AddPath returns FileName with Path, if FileName not contain any path }
3739: function AddPath(const FileName, Path: TFileName): TFileName;
3740: function AddPaths(const PathList, Path: string): string;
3741: function ParentPath(const Path: TFileName): TFileName;
3742: function FindInPath(const FileName, PathList: string): TFileName;
3743: function FindinPaths(const fileName,paths: String): String;
3744: {$IFNDEF BCB1}
3745: { BrowseForFolder displays Browse For Folder dialog }
3746: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3747: {$ENDIF BCB1}
3748: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean;
3749: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean;
3750: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean

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3751: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3752:
3753: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3754: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3755: { HasParam returns True, if program running with specified parameter, Param }
3756: function HasParam(const Param: string): Boolean;
3757: function HasSwitch(const Param: string): Boolean;
3758: function Switch(const Param: string): string;
3759: { ExePath returns ExtractFilePath(ParamStr(0)) }
3760: function ExePath: TFileName;
3761: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3762: function FileTimeToDate(const FT: TFileTime): TDateTime;
3763: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3764: {**** Graphic routines }
3765: { TTFontSelected returns True, if True Type font is selected in specified device context }
3766: function TTFontSelected(const DC: HDC): Boolean;
3767: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3768: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3769: {**** Windows routines }
3770: { SetWindowTop put window to top without recreating window }
3771: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3772: {**** other routines }
3773: { KeyPressed returns True, if Key VK is now pressed }
3774: function KeyPressed(VK: Integer): Boolean;
3775: procedure SwapInt(var Int1, Int2: Integer);
3776: function IntPower(Base, Exponent: Integer): Integer;
3777: function ChangeTopException(E: TObject): TObject;
3778: function StrToBool(const S: string): Boolean;
3779: {$IFDEF COMPILER3_UP}
3780: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3781:   Length of MaxLen bytes. The compare operation is controlled by the
3782:   current Windows locale. The return value is the same as for CompareStr. }
3783: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3784: function AnsiStrICmp(S1, S2: PChar): Integer;
3785: {$ENDIF}
3786: function Var2Type(V: Variant; const VarType: Integer): Variant;
3787: function VarToInt(V: Variant): Integer;
3788: function VarToFloat(V: Variant): Double;
3789: { following functions are not documented because they are don't work properly , so don't use them }
3790: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3791: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3792: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3793: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3794: function GetParameter: string;
3795: function GetLongFileName(FileName: string): string;
3796: {* from FileCtrl}
3797: function DirectoryExists(const Name: string): Boolean;
3798: procedure ForceDirectories(Dir: string);
3799: {# from FileCtrl}
3800: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3801: function GetComputerID: string;
3802: function GetComputerName: string;
3803: {**** string routines }
3804: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
3805:   same Index.Also see RAUtilsW.ReplaceSokr1 function }
3806: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3807: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3808:   in the list, Words, and if finds, replaces this Word with string from another list, Frases, with the
3809:   same Index, and then update NewSelStart variable }
3810: function ReplaceSokr(S:string;PosBeg:Len:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3811: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3812: function CountOfLines(const S: string): Integer;
3813: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3814: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3815:   Note: If strings SQL already contains where-statement, it must be started on begining of any line }
3816: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3817: {**** files routines - }
3818: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3819:   Resource can be compressed using MS Compress program}
3819: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3820: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3821: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3822: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3823: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3824: { IniReadSection read section, Section, from ini-file,
3825:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3826:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3827: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3828: { LoadTextFile load text file, FileName, into string }
3829: function LoadTextFile(const FileName: TFileName): string;
3830: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3831: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3832: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3833: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3834: {$IFDEF COMPILER3_UP}
3835: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3836: function TargetFileName(const FileName: TFileName): TFileName;
3837: { return filename ShortCut linked to }

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3838: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3839: {$ENDIF _COMPILER3_UP}
3840: {**** Graphic routines - }
3841: { LoadIconToImage loads two icons from resource named NameRes, into two image lists ALarge and ASmall}
3842: procedure LoadIconToImage(ALarge, ASmall: TImageList; const NameRes: string);
3843: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3844: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3845: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3846: function RATextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
3847: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3848: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3849: { Cinema draws some visual effect }
3850: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3851: { Roughed fills rect with special 3D pattern }
3852: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3853: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
  and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
3854: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3855: { TextWidth calculate text width for writing using standard desktop font }
3856: function TextWidth(AString: string): Integer;
3857: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3858: function DefineCursor(Identifier: PChar): TCursor;
3859: {**** other routines - }
3860: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3861: function FindFormByClass(FormClass: TFormClass): TForm;
3862: function FindFormByClassName(FormClassName: string): TForm;
3863: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
  having Tag property value, equal to Tag parameter }
3864: function FindByTag(WinControl: TWinControl; ComponentClass: TComponentClass; const Tag: Integer): TComponent;
3865: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3866: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3867: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3868: function RBTAG(Parent: TWinControl): Integer;
3869: { AppMinimized returns True, if Application is minimized }
3870: { MessageBox is Application.MessageBox with string (not PChar) parameters.
  if Caption parameter = '', it replaced with Application.Title }
3871: function MessageBoxJ(const Msg: string; Caption: string; const Flags: Integer): Integer;
3872: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3873: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; DefButton: TMsgDlgBtn; HelpContext: Integer; Control: TWinControl): Integer;
3874: { Delay stop program execution to MSec msec }
3875: procedure Delay(MSec: Longword);
3876: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3877: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3878: procedure EnableMenuItem(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3879: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3880: function PanelBorder(Parent: TCustomPanel): Integer;
3881: function Pixels(Control: TControl; APixels: Integer): Integer;
3882: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3883: procedure Error(const Msg: string);
3884: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3885: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>'}
3886: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): string;
3887: function ItemHtWidth(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): Integer;
3888: function ItemHtPlain(const Text: string): string;
3889: { ClearList - clears list of TObject }
3890: procedure ClearList(List: TList);
3891: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3892: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3893: { RTTI support }
3894: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3895: function GetPropStr(Obj: TObject; const PropName: string): string;
3896: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3897: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3898: procedure PrepareIniSection(SS: TStrings);
3899: { following functions are not documented because they are don't work properly, so don't use them }
3900: {$IFDEF _COMPILER2_}
3901: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3902: {$ENDIF _COMPILER2_}
3903: begin
3904: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3905: begin
3906: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3907: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3908: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
  Accept:Bool;Sorted:Bool;
3909: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3910: Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)
3911: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3912: Function BoxGetFirstSelection( List : TWinControl ) : Integer
3913: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3914: end;
3915: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);

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3925: begin
3926:   Const('MaxInitStrNum','LongInt'( 9));
3927:   Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
3928:     : array of AnsiString; MaxSplit : Integer ) : Integer
3929:   Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
3930:     string; MaxSplit : Integer ) : Integer
3931:   Function JvAnsiStrStrip( S : AnsiString ) : AnsiString
3932:   Function JvStrStrip( S : string ) : string
3933:   Function GetString( var Source : AnsiString; const Separator : AnsiString ) : AnsiString
3934:   Function PadString( const S : AnsiString; Len : Integer; PadChar : AnsiChar ) : AnsiString
3935:   Function BuildPathName( const PathName, FileName : AnsiString ) : AnsiString
3936:   Function StrEatWhiteSpace( const S : string ) : string
3937:   Function HexToAscii( const S : AnsiString ) : AnsiString
3938:   Function AsciiToHex( const S : AnsiString ) : AnsiString
3939:   Function StripQuotes( const S1 : AnsiString ) : AnsiString
3940:   Function ValidNumericLiteral( S1 : PAnsiChar ) : Boolean
3941:   Function ValidIntLiteral( S1 : PAnsiChar ) : Boolean
3942:   Function ValidHexLiteral( S1 : PAnsiChar ) : Boolean
3943:   Function HexPCharToInt( S1 : PAnsiChar ) : Integer
3944:   Function ValidStringLiteral( S1 : PAnsiChar ) : Boolean
3945:   Function JvValidIdentifierAnsi( S1 : PAnsiChar ) : Boolean
3946:   Function JvValidIdentifier( S1 : String ) : Boolean
3947:   Function JvEndChar( X : AnsiChar ) : Boolean
3948:   Procedure JvGetToken( S1, S2 : PAnsiChar )
3949:   Function IsExpressionKeyword( S1 : PAnsiChar ) : Boolean
3950:   Function IsKeyword( S1 : PAnsiChar ) : Boolean
3951:   Function JvValidVarReference( S1 : PAnsiChar ) : Boolean
3952:   Function GetParenthesis( S1, S2 : PAnsiChar ) : Boolean
3953:   Procedure JvGetVarReference( S1, S2, SIdx : PAnsiChar )
3954:   Procedure JvEatWhitespaceChars( S1 : PAnsiChar );
3955:   Procedure JvEatWhitespaceChars1( S1 : PWideChar );
3956:   Function GetTokenCount : Integer
3957:   Procedure ResetTokenCount
3958: end;
3959:
3960: procedure SIRegister_JvDBQueryParamsForm(CL: TPSPPascalCompiler);
3961: begin
3962:   SIRegister_TJvQueryParamsDialog(CL);
3963:   Function EditQueryParams( DataSet : TDataSet; List : TParams; AHelpContext : THelpContext ) : Boolean
3964:   end;
3965:
3966: ***** JvStringUtil / JvStringUtilities *****
3967: function FindNotBlankCharPos(const S: string): Integer;
3968: function AnsiChangeCase(const S: string): string;
3969: function GetWordOnPos(const S: string; const P: Integer): string;
3970: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3971: function Cmp(const S1, S2: string): Boolean;
3972: { Spaces returns string consists on N space chars }
3973: function Spaces(const N: Integer): string;
3974: { HasChar returns True, if char, Ch, contains in string, S }
3975: function HasChar(const Ch: Char; const S: string): Boolean;
3976: function HasAnyChar(const Chars: string; const S: string): Boolean;
3977: { SubStr returns substring from string, S, separated with Separator string}
3978: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3979: { SubStrEnd same to previous function but Index numerated from the end of string }
3980: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3981: { ReplaceString searches for all substrings, OldPattern, in a string, S, replaces them with NewPattern }
3982: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3983: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3984: { GetXYByPos is same to previous function, but returns X position in line too}
3985: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3986: { AddSlash returns string with added slash char to Dir parameter, if needed }
3987: function AddSlash2(const Dir: TFileName): string;
3988: { AddPath returns FileName with Path, if FileName not contain any path }
3989: function AddPath(const FileName, Path: TFileName): TFileName;
3990: { ExePath returns ExtractFilePath(ParamStr(0)) }
3991: function ExePath: TFileName;
3992: function LoadTextFile(const FileName: TFileName): string;
3993: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3994: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3995: function ConcatSep(const S, S2, Separator: string): string;
3996: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3997: function FileEquMask(FileName, Mask: TFileName): Boolean;
3998: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3999:   Masks must be separated with comma (',') }
4000: function FileEquMasks(FileName, Masks: TFileName): Boolean;
4001: function StringEndsWith(const Str, SubStr: string): Boolean;
4002: function ExtractFilePath2(const FileName: string): string;
4003: function StrToOem(const AnsiStr: string): string;
4004: { StrToOem translates a string from the Windows character set into the OEM character set. }
4005: function OemToAnsiStr(const OemStr: string): string;
4006: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4007: function IsEmptyStr(const S: string; const EmptyChars: TCharSet): Boolean;
4008: { EmptyStr returns true if the given string contains only character from the EmptyChars. }
4009: function ReplaceStr(const S, Srch, Replace: string): string;
4010: { Returns string with every occurrence of Srch string replaced with Replace string. }

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4011: function DelSpace(const S: string): string;
4012: { DelSpace return a string with all white spaces removed. }
4013: function DelChars(const S: string; Chr: Char): string;
4014: { DelChars return a string with all Chr characters removed. }
4015: function DelBSpace(const S: string): string;
4016: { DelBSpace trims leading spaces from the given string. }
4017: function DelESpace(const S: string): string;
4018: { DelESpace trims trailing spaces from the given string. }
4019: function DelRSpace(const S: string): string;
4020: { DelRSpace trims leading and trailing spaces from the given string. }
4021: function DelSpace1(const S: string): string;
4022: { DelSpace1 return a string with all non-single white spaces removed. }
4023: function Tab2Space(const S: string; Numb: Byte): string;
4024: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4025: function NPos(const C: string; S: string; N: Integer): Integer;
4026: { NPos searches for a N-th position of substring C in a given string. }
4027: function MakeStr(C: Char; N: Integer): string;
4028: function MS(C: Char; N: Integer): string;
4029: { MakeStr return a string of length N filled with character C. }
4030: function AddChar(C: Char; const S: string; N: Integer): string;
4031: { AddChar return a string left-padded to length N with characters c. }
4032: function AddCharR(C: Char; const S: string; N: Integer): string;
4033: { AddCharR return a string right-padded to length N with characters c. }
4034: function LeftStr(const S: string; N: Integer): string;
4035: { LeftStr return a string right-padded to length N with blanks. }
4036: function RightStr(const S: string; N: Integer): string;
4037: { RightStr return a string left-padded to length N with blanks. }
4038: function CenterStr(const S: string; Len: Integer): string;
4039: { CenterStr centers the characters in the string based upon the Len specified. }
4040: function CompStr(const S1, S2: string): Integer;
4041: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2,0 if S1 = S2,or 1 if S1>S2. }
4042: function CompText(const S1, S2: string): Integer;
4043: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4044: function Copy2Symb(const S: string; Symb: Char): string;
4045: { Copy2Symb returns a substring of a string S from begining to first character Symb. }
4046: function Copy2SymbDel(var S: string; Symb: Char): string;
4047: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4048: function Copy2Space(const S: string): string;
4049: { Copy2Space returns a substring of a string S from begining to first white space. }
4050: function Copy2SpaceDel(var S: string): string;
4051: { Copy2SpaceDel returns a substring of a string S from begining to first
4052:  white space and removes this substring from S. }
4053: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4054: { Returns string, with the first letter of each word in uppercase,
4055:  all other letters in lowercase. Words are delimited by WordDelims. }
4056: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4057: { WordCount given a set of word delimiters, returns number of words in S. }
4058: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4059: { Given a set of word delimiters, returns start position of N'th word in S. }
4060: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4061: function ExtractWordPos(N: Integer; const S:string; const WordDelims:TCharSet;var Pos: Integer): string;
4062: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4063: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4064:  delimiters, return the N'th word in S. }
4065: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4066: { ExtractSubstr given set of word delimiters,returns the substring from S,that started from position Pos.}
4067: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4068: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4069: function QuotedString(const S: string; Quote: Char): string;
4070: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4071: function ExtractQuotedString(const S: string; Quote: Char): string;
4072: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4073:  and reduces pairs of Quote characters within the quoted string to a single character. }
4074: function FindPart(const HelpWilds, InputStr: string): Integer;
4075: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4076: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4077: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4078: function XorString(const Key, Src: ShortString): ShortString;
4079: function XorEncode(const Key, Source: string): string;
4080: function XorDecode(const Key, Source: string): string;
4081: { ** Command line routines ** }
4082: {$IFNDEF COMPILER4_UP}
4083: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet;IgnoreCase: Boolean): Boolean;
4084: {$ENDIF}
4085: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4086: { ** Numeric string handling routines ** }
4087: function Numb2USA(const S: string): string;
4088: { Numb2USA converts numeric string S to USA-format. }
4089: function Dec2Hex(N: Longint; A: Byte): string;
4090: function D2H(N: Longint; A: Byte): string;
4091: { Dec2Hex converts the given value to a hexadecimal string representation
4092:  with the minimum number of digits (A) specified. }
4093: function Hex2Dec(const S: string): Longint;
4094: function H2D(const S: string): Longint;
4095: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4096: function Dec2Numb(N: Longint; A, B: Byte): string;
4097: { Dec2Numb converts the given value to a string representation with the
4098:  base equal to B and with the minimum number of digits (A) specified. }
4099: function Numb2Dec(S: string; B: Byte): Longint;

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4100: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4101: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4102: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4103: function IntToRoman(Value: Longint): string;
4104: { IntToRoman converts the given value to a roman numeric string representation. }
4105: function RomanToInt(const S: string): Longint;
4106: { RomanToInt converts the given string to an integer value. If the string
4107:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4108: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4109: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4110: ***** JvFileUtil *****
4111: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4112: procedure CopyFileEx(const FileName, DestName:string;OverwriteReadOnly,ShellDialog:Boolean;ProgressControl:
TControl);
4113: procedure MoveFile(const FileName, DestName: TFileName);
4114: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4115: {$IFDEF COMPILER4_UP}
4116: function GetFileSize(const FileName: string): Int64;
4117: {$ELSE}
4118: function GetFileSize(const FileName: string): Longint;
4119: {$ENDIF}
4120: function FileDateTime(const FileName: string): TDateTime;
4121: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4122: function DeleteFilesEx(const FileMask: string): Boolean;
4123: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4124: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4125: function NormalDir(const DirName: string): string;
4126: function RemoveBackSlash(const DirName: string): string;
4127: function ValidFileName(const FileName: string): Boolean;
4128: function DirExists(Name: string): Boolean;
4129: procedure ForceDirectories(Dir: string);
4130: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4131: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4132: {$IFDEF COMPILER4_UP}
4133: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4134: {$ENDIF}
4135: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4136: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4137: {$IFDEF COMPILER4_UP}
4138: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4139: {$ENDIF}
4140: function GetTempDir: string;
4141: function GetWindowsDir: string;
4142: function GetSystemDir: string;
4143: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4144: {$IFDEF WIN32}
4145: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4146: function ShortToLongFileName(const ShortName: string): string;
4147: function ShortToLongPath(const ShortName: string): string;
4148: function LongToShortFileName(const LongName: string): string;
4149: function LongToShortPath(const LongName: string): string;
4150: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4151: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4152: {$ENDIF WIN32}
4153: {$IFNDEF COMPILER3_UP}
4154: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4155: {$ENDIF}
4156: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4157: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4158: Function CreatePopUpCalculator( AOwner : TComponent ) : TWinControl;
4159: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4160:
4161: //*****procedure SIRegister_VarHlpr(CL: TPSPPascalCompiler);
4162: Procedure VariantClear( var V : Variant );
4163: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4164: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4165: Procedure VariantCpy( const src : Variant; var dst : Variant );
4166: Procedure VariantAdd( const src : Variant; var dst : Variant );
4167: Procedure VariantSub( const src : Variant; var dst : Variant );
4168: Procedure VariantMul( const src : Variant; var dst : Variant );
4169: Procedure VariantDiv( const src : Variant; var dst : Variant );
4170: Procedure VariantMod( const src : Variant; var dst : Variant );
4171: Procedure VariantAnd( const src : Variant; var dst : Variant );
4172: Procedure VariantOr( const src : Variant; var dst : Variant );
4173: Procedure VariantXor( const src : Variant; var dst : Variant );
4174: Procedure VariantShl( const src : Variant; var dst : Variant );
4175: Procedure VariantShr( const src : Variant; var dst : Variant );
4176: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4177: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4178: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4179: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4180: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4181: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4182: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4183: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4184: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4185: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4186: Function VariantNot( const V1 : Variant ) : Variant;
4187: Function VariantNeg( const V1 : Variant ) : Variant;

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4188: Function VariantGetElement( const V : Variant; i1 : integer) : Variant;
4189: Function VariantGetElement1( const V : Variant; i1, i2 : integer) : Variant;
4190: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer) : Variant;
4191: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer) : Variant;
4192: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer) : Variant;
4193: Procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer);
4194: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
4195: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
4196: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
4197: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
4198: end;
4199:
4200: *****unit uPSI_JvgUtils;*****
4201: function IsEven(I: Integer): Boolean;
4202: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4203: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4204: procedure SwapInt(var I1, I2: Integer);
4205: function Spaces(Count: Integer): string;
4206: function DupStr(const Str: string; Count: Integer): string;
4207: function DupChar(C: Char; Count: Integer): string;
4208: procedure Msg(const AMsg: string);
4209: function RectW(R: TRect): Integer;
4210: function RectH(R: TRect): Integer;
4211: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4212: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4213: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4214: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4215:   HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4216: procedure DrawTextInRect(DC: HDC; R: TRect; const Text:string;Style:TglTextStyle;Fnt:TFont;Flags: UINT);
4217: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4218:   Style: TglTextStyle; ADelinedated, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor: TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4219: procedure DrawBox(DC:HDC; var R:TRect; Style:TglBoxStyle;BackgrColor: Longint; ATransparent: Boolean);
4220: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4221:   BevelInner, BevelOuter: TPanelBevel; Bold:Boolean; BackgrColor: Longint;ATransparent: Boolean): TRect;
4222: procedure GradientBox(DC: HDC; R: TRect; Gradient: TJvgGradient;PenStyle, PenWidth: Integer);
4223: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4224: procedure DrawBitmapExt(DC: HDC; { DC - background & result }
4225:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4226:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4227:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4228: procedure CreateBitmapExt(DC: HDC; { DC - background & result }
4229:   SourceBitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4230:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4231:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4232: procedure BringParentWindowToTop(Wnd: TWInControl);
4233: function GetParentForm(Control: TControl): TForm;
4234: procedure GetWindowImageFrom(Control: TWInControl; X,Y:Integer;ADrawSelf,ADrawChildWindows:Boolean;DC:HDC);
4235: procedure GetWindowImage(Control: TWInControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4236: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4237: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4238: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4239: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4240: function CalcMathString(AExpression: string): Single;
4241: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4242: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4243: function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4244: procedure TypeStringOnKeyboard(const S: string);
4245: function NextStringGridCell( Grid: TStringGrid ): Boolean;
4246: procedure DrawTextExtAligned(Canvas:TCanvas;const
4247:   Text:string;R:TRect;Alignment:TglAlignment;WordWrap:Boolean);
4248: procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4249: procedure SaveComponentToTextFile(Component: TComponent; const FileName: string);
4250: function ComponentToString(Component: TComponent): string;
4251: procedure StringToComponent(Component: TComponent; const Value: string);
4252: function PlayWaveResource(const ResName: string): Boolean;
4253: function UserName: string;
4254: function CreateIniFileName: string;
4255: function ExpandString(const Str: string; Len: Integer): string;
4256: function Transliterate(const Str: string; RusToLat: Boolean): string;
4257: function IsSmallFonts: Boolean;
4258: function SystemColorDepth: Integer;
4259: function GetFileTypeJ(const FileName: string): TglFileType;
4260: Function GetFileType( hFile : THandle ) : DWORD';
4261: function FindControlAtPt(Control: TWInControl; Pt: TPoint; MinClass: TClass): TControl;
4262: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4263:
4264: { ****Utility routines of unit classes}
4265: function LineStart(Buffer, BufPos: PChar): PChar;
4266: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar;'+'
4267:   'Strings: TStrings): Integer
4268: Function TestStreamFormat( Stream : TStream ) : TStreamOriginalFormat
4269: Procedure RegisterClass( AClass : TPersistentClass )
4270: Procedure RegisterClasses( AClasses : array of TPersistentClass )
4271: Procedure RegisterClassAlias( AClass : TPersistentClass; const Alias : string )
4272: Procedure UnRegisterClass( AClass : TPersistentClass )
4273: Procedure UnRegisterClasses( AClasses : array of TPersistentClass )
4274: Procedure UnRegisterModuleClasses( Module : HMODULE )

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4275: Function FindGlobalComponent( const Name : string ) : TComponent
4276: Function IsUniqueGlobalComponentName( const Name : string ) : Boolean
4277: Function InitInheritedComponent( Instance : TComponent; RootAncestor : TClass ) : Boolean
4278: Function InitComponentRes( const ResName : string; Instance : TComponent ) : Boolean
4279: Function ReadComponentRes( const ResName : string; Instance : TComponent ) : TComponent
4280: Function ReadComponentResEx( HInstance : THandle; const ResName : string ) : TComponent
4281: Function ReadComponentResFile( const FileName : string; Instance : TComponent ) : TComponent
4282: Procedure WriteComponentResFile( const FileName : string; Instance : TComponent )
4283: Procedure GlobalFixupReferences
4284: Procedure GetFixupReferenceNames( Root : TComponent; Names : TStrings )
4285: Procedure GetFixupInstanceNames(Root: TComponent; const ReferenceRootName string; Names : TStrings)
4286: Procedure RedirectFixupReferences( Root : TComponent; const OldRootName, NewRootName : string )
4287: Procedure RemoveFixupReferences( Root : TComponent; const RootName : string )
4288: Procedure RemoveFixups( Instance : TPersistent )
4289: Function FindNestedComponent( Root : TComponent; const NamePath : string ) : TComponent
4290: Procedure BeginGlobalLoading
4291: Procedure NotifyGlobalLoading
4292: Procedure EndGlobalLoading
4293: Function GetUltimateOwner1( ACollection : TCollection ) : TPersistent;
4294: Function GetUltimateOwner( APersistent : TPersistent ) : TPersistent;
4295: // AddTypeS('TWindMethod', 'Procedure (var Message : TMessage)')
4296: //Function MakeObjectInstance( Method : TWndMethod ) : Pointer
4297: Procedure FreeObjectInstance( ObjectInstance : Pointer )
4298: // Function AllocateHWnd( Method : TWndMethod ) : HWND
4299: Procedure DeallocateHWnd( Wnd : HWND )
4300: Function AncestorIsValid( Ancestor : TPersistent; Root, RootAncestor : TComponent ) : Boolean
4301: ****unit uPSI_SqlTimSt and DB;*****
4302: Procedure VarSQLTimeStampCreate4( var aDest : Variant; const ASQLTimeStamp : TSQLOTimeStamp );
4303: Function VarSQLTimeStampCreate3: Variant;
4304: Function VarSQLTimeStampCreate2( const aValue : string ) : Variant;
4305: Function VarSQLTimeStampCreate1( const aValue : TDateTime ) : Variant;
4306: Function VarSQLTimeStampCreate( const ASQLTimeStamp : TSQLOTimeStamp ) : Variant;
4307: Function VarSQLTimeStamp : TVarType
4308: Function VarIsSQLTimeStamp( const aValue : Variant ) : Boolean;
4309: Function LocalToUTC( var TZInfo : TTimeZone; var Value : TSQLOTimeStamp ) : TSQLOTimeStamp //beta
4310: Function UTCToLocal( var TZInfo : TTimeZone; var Value : TSQLOTimeStamp ) : TSQLOTimeStamp //beta
4311: Function VarToSQLTimeStamp( const aValue : Variant ) : TSQLOTimeStamp
4312: Function SQLTimeStampToStr( const Format : string; DateTime : TSQLOTimeStamp ) : string
4313: Function SQLDayOfWeek( const DateTime : TSQLOTimeStamp ) : integer
4314: Function DateToSQLTimeStamp( const DateTime : TDateTime ) : TSQLOTimeStamp
4315: Function SQLTimeStampToDate( const DateTime : TSQLOTimeStamp ) : TDateTime
4316: Function TryStrToSQLTimeStamp( const S : string; var TimeStamp : TSQLOTimeStamp ) : Boolean
4317: Function StrToSQLTimeStamp( const S : string ) : TSQLOTimeStamp
4318: Procedure CheckSQLTimeStamp( const ASQLTimeStamp : TSQLOTimeStamp )
4319: Function ExtractFieldName( const Fields : string; var Pos : Integer ) : string;
4320: Function ExtractFieldName( const Fields : WideString; var Pos : Integer ) : WideString;
4321: //Procedure RegisterFields( const FieldClasses : array of TFieldClass )
4322: Procedure DatabaseError( const Message : WideString; Component : TComponent )
4323: Procedure DatabaseErrorFmt( const Message:WideString; const Args:array of const;Component:TComponent )
4324: Procedure DisposeMem( var Buffer, Size : Integer )
4325: Function BuffersEqual( Buf1, Buf2 : Pointer; Size : Integer ) : Boolean
4326: Function GetFieldProperty(DataSet:TDataSet; Control:TComponent; const FieldName: WideString): TField
4327: Function VarTypeToDataType( VarType : Integer ) : TFieldType
4328: ****unit JvStrings;*****
4329: {template functions}
4330: function ReplaceFirst(const SourceStr, FindStr, ReplaceStr: string): string;
4331: function ReplaceLast(const SourceStr, FindStr, ReplaceStr: string): string;
4332: function InsertLastBlock(var SourceStr: string; BlockStr: string): Boolean;
4333: function RemoveMasterBlocks(const SourceStr: string): string;
4334: function RemoveFields(const SourceStr: string): string;
4335: {http functions}
4336: function URLEncode(const Value: AnsiString): AnsiString; // Converts string To A URLEncoded string
4337: function URLDecode(const Value: AnsiString): AnsiString; // Converts string From A URLEncoded string
4338: {set functions}
4339: procedure SplitSet(AText: string; Alist: TStringList);
4340: function JoinSet(Alist: TStringList): string;
4341: function FirstOfSet(const AText: string): string;
4342: function LastOfSet(const AText: string): string;
4343: function CountOfSet(const AText: string): Integer;
4344: function SetRotateRight(const AText: string): string;
4345: function SetRotateLeft(const AText: string): string;
4346: function SetPick(const AText: string; AIIndex: Integer): string;
4347: function SetSort(const AText: string): string;
4348: function SetUnion(const Set1, Set2: string): string;
4349: function SetIntersect(const Set1, Set2: string): string;
4350: function SetExclude(const Set1, Set2: string): string;
4351: {replace any <,> etc by &lt;,&gt;}
4352: function XMLSafe(const AText: string): string;
4353: {simple hash, Result can be used in Encrypt}
4354: function Hash(const AText: string): Integer;
4355: { Base64 encode and decode a string }
4356: function B64Encode(const S: AnsiString): AnsiString;
4357: function B64Decode(const S: AnsiString): AnsiString;
4358: {Basic encryption from a Borland Example}
4359: function Encrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4360: function Decrypt(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4361: {Using Encrypt and Decrypt in combination with B64Encode and B64Decode}
4362: function EncryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;
4363: function DecryptB64(const InString: AnsiString; StartKey, MultKey, AddKey: Integer): AnsiString;

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4364: procedure CSVToTags(Src, Dst: TStringList);
4365: // converts a csv list to a tagged string list
4366: procedure TagsToCSV(Src, Dst: TStringList);
4367: // converts a tagged string list to a csv list
4368: // only fieldnames from the first record are scanned in the other records
4369: procedure ListSelect(Src, Dst: TStringList; const AKey, AValue: string);
4370: {selects akey=avalue from Src and returns recordset in Dst}
4371: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4372: {filters Src for akey=avalue}
4373: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4374: {orders a tagged Src list by akey}
4375: function PosStr(const FindString, SourceString: string;
4376: StartPos: Integer = 1): Integer;
4377: { PosStr searches the first occurrence of a substring FindString in a string
4378: given by SourceString with case sensitivity (upper and lower case characters
4379: are differed). This function returns the index value of the first character
4380: of a specified substring from which it occurs in a given string starting with
4381: StartPos character index. If a specified substring is not found Q_PosStr
4382: returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4383: function PosStrLast(const FindString, SourceString: string): Integer;
4384: {finds the last occurrence}
4385: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4386: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4387: { PosText searches the first occurrence of a substring FindString in a string
4388: given by SourceString without case sensitivity (upper and lower case characters are not differed). This
4389: function returns the index value of the first character of a specified substring from which it occurs in a
4390: given string starting with Start
4391: function PosTextLast(const FindString, SourceString: string): Integer;
4392: {finds the last occurrence}
4393: function NameValuesToXML(const AText: string): string;
4394: {$IFDEF MSWINDOWS}
4395: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4396: {$ENDIF MSWINDOWS}
4397: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4398: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4399: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4400: procedure SaveString(const AFile, AText: string);
4401: function LoadString(const AFile: string): string;
4402: function LoadStringOfFile(const AFile: string): string;
4403: function LoadStringFromFile(const AFile: string): string;
4404: function HexToColor(const AText: string): TColor;
4405: function UppercaseHTMLTags(const AText: string): string;
4406: function LowercaseHTMLTags(const AText: string): string;
4407: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4408: function RelativePath(const ASrc, ADst: string): string;
4409: function GetToken(var Start: Integer; const SourceText: string): string;
4410: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4411: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4412: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4413: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4414: // parses the beginning of an attribute: space + alpha character
4415: function ParseAttribute(var Start: Integer; const SourceText: string; var AName, AValue: string): Boolean;
4416: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4417: procedure ParseAttributes(const SourceText: string; Attributes: TStrings);
4418: // parses all name=value attributes to the attributes TStringList
4419: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4420: // checks if a name="value" pair exists and returns any value
4421: function GetStrValue(const AText, AName, ADefault: string): string;
4422: // retrieves string value from a line like:
4423: // name="jan verhoeven" email="jan1 dott verhoeven att wxs dott nl"
4424: // returns ADefault when not found
4425: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4426: // same for a color
4427: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4428: // same for an Integer
4429: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4430: // same for a float
4431: function GetBoolValue(const AText, AName: string): Boolean;
4432: // same for Boolean but without default
4433: function GetValue(const AText, AName: string): string;
4434: //retrieves string value from a line like: name="jan verhoeven" email="jan1 verhoeven att wxs dott nl"
4435: procedure SetValue(var AText: string; const AName, AValue: string);
4436: // sets a string value in a line
4437: procedure DeleteValue(var AText: string; const AName: string);
4438: // deletes a AName="value" pair from AText
4439: procedure GetNames(AText: string; AList: TStringList);
4440: // get a list of names from a string with name="value" pairs
4441: function GetHTMLColor(AColor: TColor): string;
4442: // converts a color value to the HTML hex value
4443: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4444: // finds a string backward case sensitive
4445: function BackPostText(Start: Integer; const FindString, SourceString: string): Integer;
4446: // finds a string backward case insensitive
4447: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4448: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4449: // finds a text range, e.g. <TD>....</TD> case sensitive
4450: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string);

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4451:  var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4452: // finds a text range, e.g. <TD>....</td> case insensitive
4453: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string;
4454:  var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4455: // finds a text range backward, e.g. <TD>....</TD> case sensitive
4456: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string;
4457:  var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4458: // finds a text range backward, e.g. <TD>....</td> case insensitive
4459: function PosTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4460:  var RangeEnd: Integer): Boolean;
4461: // finds a HTML or XML tag: <....>
4462: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4463:  var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4464: // finds the innerText between opening and closing tags
4465: function Easter(NYear: Integer): TDateTime;
4466: // returns the easter date of a year.
4467: function GetWeekNumber(Today: TDateTime): string;
4468: // gets a datecode. Returns year and weeknumber in format: YYWW
4469: function ParseNumber(const S: string): Integer;
4470: // parse number returns the last position, starting from 1
4471: function ParseDate(const S: string): Integer;
4472: // parse a SQL style date string from positions 1,
4473: // starts and ends with #
4474:
4475: *****unit JvJCLUtils;*****
4476:
4477: function VarIsInt(Value: Variant): Boolean;
4478: // VarIsInt returns VarIsOrdinal-[varBoolean]
4479: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4480: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4481: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4482: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4483: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4484: function GetWordOnPos(const S: string; const P: Integer): string;
4485: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4486: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4487: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4488: { GetWordOnPosEx working like GetWordOnPos function, but
4489:   also returns Word position in iBeg, iEnd variables }
4490: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4491: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4492: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4493: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4494: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4495: { GetEndPosCaret returns the caret position of the last char. For the position
4496:   after the last char of Text you must add 1 to the returned X value. }
4497: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4498: { GetEndPosCaret returns the caret position of the last char. For the position
4499:   after the last char of Text you must add 1 to the returned X value. }
4500: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4501: function SubStrBySeparator(const S: string; const Index: Integer; const
4502: Separator: string; StartIndex: Int=1): string;
4502: function SubStrBySeparatorW(const S: WideString; const Index: Int; const
4503: Separator: WideString; StartIndex: Int: WideString;
4504: { SubStrEnd same to previous function but Index numerated from the end of string }
4505: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4505: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4506: function SubWord(P: PChar; var P2: PChar): string;
4507: function CurrencyByWord(Value: Currency): string;
4508: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4509: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4510: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4511: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4512: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4513: { ReplaceString searches for all substrings, OldPattern,
4514:   in a string, S, and replaces them with NewPattern }
4515: function ReplaceString(S: string; const OldPattern, NewPattern: string; StartIndex: Integer = 1): string;
4516: function ReplaceStringW(S: WideString; const OldPattern, NewPattern:
4517: WideString; StartIndex: Integer=1): WideString;
4517: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4518: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4519: SUPPORTS_INLINE}
4520: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4520: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4521: SUPPORTS_INLINE}
4522: { Next 4 function for russian chars transliterating.
4523:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4524: procedure Dos2Win(var S: AnsiString);
4525: procedure Win2Dos(var S: AnsiString);
4526: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4527: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4528: function Win2Koi(const S: AnsiString): AnsiString;
4529: { FillString fills the string Buffer with Count Chars }
4530: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4531: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4532: { MoveString copies Count Chars from Source to Dest }
4533: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
4533: inline; {$ENDIF SUPPORTS_INLINE} overload;

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4534: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
4535:   DstStartIdx: Integer; Count: Integer);{$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4536: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4537: procedure FillWideChar(var Buffer; Count: Integer; const Value: WideChar);
4538: { MoveWideChar copies Count WideChars from Source to Dest }
4539: procedure MoveWideChar(const Source; var Dest; Count: Integer);{$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4540: { FillNativeChar fills Buffer with Count NativeChars }
4541: procedure FillNativeChar(var Buffer; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4542: { MoveWideChar copies Count WideChars from Source to Dest }
4543: procedure MoveNativeChar(const Source; var Dest; Count: Integer); // D2009 internal error {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4544: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4545: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4546: { Spaces returns string consists on N space chars }
4547: function Spaces(const N: Integer): string;
4548: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4549: function AddSpaces(const S: string; const N: Integer): string;
4550: function SpacesW(const N: Integer): WideString;
4551: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4552: { function LastDateRUS for russian users only }
4553: { returns date relative to current date: 'äää äiý fåçää' }
4554: function LastDateRUS(const Dat: TDateTime): string;
4555: { CurrencyToStr format Currency, Cur, using ffCurrency float format}
4556: function CurrencyToStr(const Cur: Currency): string;
4557: { HasChar returns True, if Char, Ch, contains in string, S }
4558: function HasChar(const Ch: Char; const S: string): Boolean;
4559: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4560: function HasAnyChar(const Chars: string; const S: string): Boolean;
4561: {$IFNDEF COMPILER12_UP}
4562: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4563: {$ENDIF -COMPILER12_UP}
4564: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4565: function CountOfChar(const Ch: Char; const S: string): Integer;
4566: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4567: { StrLICompW is a faster replacement for JclUnicode.StrLICompW }
4568: function StrLICompW(S1, S2: PWideChar; MaxLen: Integer): Integer;
4569: function StrPosW(S, SubStr: PWideChar): PWideChar;
4570: function StrLenW(S: PWideChar): Integer;
4571: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4572: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4573: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4574: TPixelFormat', ('( pfDevice, pflbit, pf4bit, pf8bit, pf24bit )
4575: TMappingMethod', '( mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTriple, mmGrayscale )
4576: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4577: Function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4578: Procedure SetBitmapPixelFormat( Bitmap : TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod )
4579: Function BitmapToMemoryStream(Bitmap: TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod) : TMemoryStream;
4580: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4581: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4582: Procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer )
4583: Function ScreenPixelFormat : TPixelFormat
4584: Function ScreenColorCount : Integer
4585: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic )
4586: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4587: // SIRegister_TJvGradient(CL);
4588:
4589: {***** files routines}
4590: procedure SetDelimitedText(List: TStrings; const Text: string; Delimiter: Char);
4591: const
4592: {$IFDEF MSWINDOWS}
4593: DefaultCaseSensitivity = False;
4594: {$ENDIF MSWINDOWS}
4595: {$IFDEF UNIX}
4596: DefaultCaseSensitivity = True;
4597: {$ENDIF UNIX}
4598: { GenTempFileName returns temporary file name on
4599:   drive, there FileName is placed }
4600: function GenTempFileName(FileName: string): string;
4601: { GenTempFileNameExt same to previous function, but
4602:   returning filename has given extension, FileExt }
4603: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4604: { ClearDir clears folder Dir }
4605: function ClearDir(const Dir: string): Boolean;
4606: { DeleteDir clears and then delete folder Dir }
4607: function DeleteDir(const Dir: string): Boolean;
4608: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4609: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4610: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4611:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4612: function FileEquMasks(FileName, Masks: TFileName;
4613: CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4614: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4615: {$IFDEF MSWINDOWS}
4616: { LZFileExpand expand file, FileSource,

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4617:   into FileDest. Given file must be compressed, using MS Compress program }
4618: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4619: {$ENDIF MSWINDOWS}
4620: { FileGetInfo fills SearchRec record for specified file attributes}
4621: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4622: { HasSubFolder returns True, if folder APath contains other folders }
4623: function HasSubFolder(APath: TFileName): Boolean;
4624: { IsEmptyFolder returns True, if there are no files or
4625:   folders in given folder, APath}
4626: function IsEmptyFolder(APath: TFileName): Boolean;
4627: { AddSlash returns string with added slash Char to Dir parameter, if needed }
4628: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4629: { AddPath returns FileName with Path, if FileName not contain any path }
4630: function AddPath(const FileName, Path: TFileName): TFileName;
4631: function AddPaths(const PathList, Path: string): string;
4632: function ParentPath(const Path: TFileName): TFileName;
4633: function FindInPath(const FileName, PathList: string): TFileName;
4634: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4635: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4636: { HasParam returns True, if program running with specified parameter, Param }
4637: function HasParam(const Param: string): Boolean;
4638: function HasSwitch(const Param: string): Boolean;
4639: function Switch(const Param: string): string;
4640: { ExePath returns ExtractFilePath(ParamStr(0)) }
4641: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4642: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4643: //function FileTimeToDateTime(const FT: TFileTime): TDateTime;
4644: procedure FileTimeToDosDateTimeDWord(const FT: TFileTime; out Dft: DWORD);
4645: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4646: {**** Graphic routines }
4647: { IsTTFFontSelected returns True, if True Type font is selected in specified device context }
4648: function IsTTFFontSelected(const DC: HDC): Boolean;
4649: function KeyPressed(VK: Integer): Boolean;
4650: Function isKeypressed: boolean; //true if key on memo2 (shell output) is pressed
4651: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4652: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4653: {**** Color routines }
4654: procedure RGBtoHSV(R, G, B: Integer; var H, S, V: Integer);
4655: function RGBtoBGR(Value: Cardinal): Cardinal;
4656: //function ColorToPrettyName(Value: TColor): string;
4657: //function PrettyNameToColor(const Value: string): TColor;
4658: {**** other routines }
4659: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4660: function IntPower(Base, Exponent: Integer): Integer;
4661: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4662: function StrToBool(const S: string): Boolean;
4663: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4664: function VarToInt(V: Variant): Integer;
4665: function VarToFloat(V: Variant): Double;
4666: { following functions are not documented because they not work properly sometimes, so do not use them }
4667: // (rom) ReplaceStrings1, GetSubStr removed
4668: function GetLongFileName(const FileName: string): string;
4669: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4670: function GetParameter: string;
4671: function GetComputerID: string;
4672: function GetComputerName: string;
4673: {**** string routines }
4674: { ReplaceAllStrings searches for all substrings, Words,
4675:   in a string, S, and replaces them with Frases with the same Index. }
4676: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4677: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4678:   in the list, Words, and if founds, replaces this Word with string from another list,Frases, with the
4679:   same Index, and then update NewSelStart variable }
4679: function ReplaceStrings(const S:string;PosBeg:Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4680: { CountOfLines calculates the lines count in a string, S,
4681:   each line must be separated from another with CrLf sequence }
4682: function CountOfLines(const S: string): Integer;
4683: { DeleteLines deletes all lines from strings which in the words, words.
4684:   The word of will be deleted from strings. }
4685: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4686: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4687:   Lines contained only spaces also deletes. }
4688: procedure DeleteEmptyLines(Ss: TStrings);
4689: { SQLAddWhere addes or modifies existing where-statement, where,
4690:   to the strings, SQL. Note: If strings SQL alreadly contains where-statement,
4691:   it must be started on the begining of any line }
4692: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4693: {**** files routines - }
4694: {$IFDEF MSWINDOWS}
4695: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4696:   Resource can be compressed using MS Compress program}
4697: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4698: function ResSaveToFileEx(Instance:HINST;Typ,Name:PChar;const Compressed:Boolean;const FileName:string):
4699: Boolean;
4700: {$ENDIF MSWINDOWS}
4701: { IniReadSection read section, Section, from ini-file,
4702:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4703:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}

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4704: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4705: { LoadTextFile load text file, FileName, into string }
4706: function LoadTextFile(const FileName: TFileName): string;
4707: procedure SaveTextfile(const FileName: TFileName; const Source: string);
4708: { ReadFolder reads files list from disk folder, Folder, that are equal to mask, Mask, into strings, FileList, }
4709: function ReadFolder(const Folder, Mask: TFileName; Filelist: TStrings): Integer;
4710: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4711: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4712: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4713: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
4714: function RATextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
4715: { RATextCalcHeight calculate needed height for
4716:   correct output, using RATextOut or RATextOutEx functions }
4717: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4718: { Cinema draws some visual effect }
4719: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}): TRect;
4720: { Roughed fills rect with special 3D pattern }
4721: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4722: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4723:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4724: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4725: function TextWidth(const AStr: string): Integer;
4726: { TextHeight calculate text height for writing using standard desktop font }
4727: function TextHeight(const AStr: string): Integer;
4728: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4729: procedure Error(const Msg: string);
4730: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4731:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4732: { example Text parameter: 'Item 1bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4733: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4734:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4735: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4736:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4737: function ItemHtPlain(const Text: string): string;
4738: { ClearList - clears list of TObject }
4739: procedure ClearList(List: TList);
4740: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4741: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
4742: { RTTI support }
4743: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4744: function GetPropStr(Obj: TObject; const PropName: string): string;
4745: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4746: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4747: procedure PrepareIniSection(Ss: TStrings);
4748: { following functions are not documented because they are don't work properly, so don't use them }
4749: // (rom) from JVBandWindows to make it obsolete
4750: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4751: // (rom) from JVBandUtils to make it obsolete
4752: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4753: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4754: function CreateIconFromClipboard: TIcon;
4755: { begin JvIconClipboardUtils } { Icon clipboard routines }
4756: function CF_ICON: Word;
4757: procedure AssignClipboardIcon(Icon: TIcon);
4758: { Real-size icons support routines (32-bit only) }
4759: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4760: function CreateRealSizeIcon(Icon: TIcon): HICON;
4761: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4762: {end JvIconClipboardUtils }
4763: function CreateScreenCompatibleDC: HDC;
4764: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4765: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4766: { begin JvRLE } // (rom) changed API for inclusion in JCL
4767: procedure RleCompressTo(InStream, OutStream: TStream);
4768: procedure RleDecompressTo(InStream, OutStream: TStream);
4769: procedure RleCompress(Stream: TStream);
4770: procedure RleDecompress(Stream: TStream);
4771: { end JvRLE } { begin JvDateUtil }
4772: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4773: function IsLeapYear(AYear: Integer): Boolean;
4774: function DaysInAMonth(const AYear, AMonth: Word): Word;
4775: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4776: function FirstDayOfPrevMonth: TDateTime;
4777: function LastDayOfPrevMonth: TDateTime;
4778: function FirstDayOfNextMonth: TDateTime;
4779: function ExtractDay(ADate: TDateTime): Word;
4780: function ExtractMonth(ADate: TDateTime): Word;
4781: function ExtractYear(ADate: TDateTime): Word;
4782: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4783: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$IFDEF SUPPORTS_INLINE}
4784: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4785: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4786: function ValidDate(ADate: TDateTime): Boolean;
4787: procedure DateDiff(Datel, Date2: TDateTime; var Days, Months, Years: Word);
4788: function MonthsBetween(Datel, Date2: TDateTime): Double;
4789: function DaysInPeriod(Datel, Date2: TDateTime): Longint;
4790: { Count days between Datel and Date2 + 1, so if Datel = Date2 result = 1 }

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4791: function DaysBetween(Date1, Date2: TDateTime): Longint;
4792: { The same as previous but if Date2 < Date1 result = 0 }
4793: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4794: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4795: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4796: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4797: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4798: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4799: { String to date conversions }
4800: function GetDateOrder(const DateFormat: string): TDateOrder;
4801: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4802: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4803: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4804: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4805: //function DefDateFormat(AFourDigitYear: Boolean): string;
4806: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4807: function FormatLongDate(Value: TDateTime): string;
4808: function FormatLongDateTime(Value: TDateTime): string;
4809: { end JvDateUtil }
4810: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4811: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4812: { begin JvStrUtils } { ** Common string handling routines ** }
4813: {$IFDEF UNIX}
4814: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4815: { const ToCode, FromCode: AnsiString}): Boolean;
4816: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4817: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4818: function OemStrToAnsi(const S: AnsiString): AnsiString;
4819: function AnsiStrToOem(const S: AnsiString): AnsiString;
4820: {$ENDIF UNIX}
4821: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4822: { StrToOem translates a string from the Windows character set into the OEM character set. }
4823: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4824: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4825: function IsEmptyStr(const S: string; const EmptyChars: TSys CharSet): Boolean;
4826: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4827: function ReplaceStr(const S, Srch, Replace: string): string;
4828: { Returns string with every occurrence of Srch string replaced with Replace string. }
4829: function DelSpace(const S: string): string;
4830: { DelSpace return a string with all white spaces removed. }
4831: function DelChars(const S: string; Chr: Char): string;
4832: { DelChars return a string with all Chr characters removed. }
4833: function DelBSpace(const S: string): string;
4834: { DelBSpace trims leading spaces from the given string. }
4835: function DelESpace(const S: string): string;
4836: { DelESpace trims trailing spaces from the given string. }
4837: function DelRSpace(const S: string): string;
4838: { DelRSpace trims leading and trailing spaces from the given string. }
4839: function DelSpacel(const S: string): string;
4840: { DelSpacel return a string with all non-single white spaces removed. }
4841: function Tab2Space(const S: string; Numb: Byte): string;
4842: { Tab2Space converts any tabulation character in the given string to the
4843: { Numb spaces characters. }
4844: function NPos(const C: string; S: string; N: Integer): Integer;
4845: { NPos searches for a N-th position of substring C in a given string. }
4846: function MakeStr(C: Char; N: Integer): string; overload;
4847: {$IFNDEF COMPILER12_UP}
4848: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4849: {$ENDIF !COMPILER12_UP}
4850: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4851: { MakeStr return a string of length N filled with character C. }
4852: function AddChar(C: Char; const S: string; N: Integer): string;
4853: { AddChar return a string left-padded to length N with characters C. }
4854: function AddCharR(C: Char; const S: string; N: Integer): string;
4855: { AddCharR return a string right-padded to length N with characters C. }
4856: function LeftStr(const S: string; N: Integer): string;
4857: { LeftStr return a string right-padded to length N with blanks. }
4858: function RightStr(const S: string; N: Integer): string;
4859: { RightStr return a string left-padded to length N with blanks. }
4860: function CenterStr(const S: string; Len: Integer): string;
4861: { CenterStr centers the characters in the string based upon the Len specified. }
4862: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4863: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4864: { -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4865: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4866: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4867: function Copy2Symb(const S: string; Symb: Char): string;
4868: { Copy2Symb returns a substring of a string S from begining to first character Symb. }
4869: function Copy2SymbDel(var S: string; Symb: Char): string;
4870: { Copy2SymbDel returns a substring of a string S from begining to first
4871: { character Symb and removes this substring from S. }
4872: function Copy2Space(const S: string): string;
4873: { Copy2Space returns a substring of a string S from beginning to first white space. }
4874: function Copy2SpaceDel(var S: string): string;
4875: { Copy2SpaceDel returns a substring of a string S from begining to first
4876: { white space and removes this substring from S. }
4877: function AnsiProperCase(const S: string; const WordDelims: TSys CharSet): string;
4878: { Returns string, with the first letter of each word in uppercase,
4879: { all other letters in lowercase. Words are delimited by WordDelims. }

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4880: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4881: { WordCount given a set of word delimiters, returns number of words in S. }
4882: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4883: { Given a set of word delimiters, returns start position of N'th word in S. }
4884: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4885: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4886: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4887: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4888:   delimiters, return the N'th word in S. }
4889: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;
4890: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4891:   that started from position Pos. }
4892: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4893: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4894: function QuotedString(const S: string; Quote: Char): string;
4895: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4896: function ExtractQuotedString(const S: string; Quote: Char): string;
4897: { ExtractQuotedString removes the Quote characters from the beginning and
4898:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character. }
4899: function FindPart(const HelpWilds, InputStr: string): Integer;
4900: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4901: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4902: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4903: function XorString(const Key, Src: ShortString): ShortString;
4904: function XorEncode(const Key, Source: string): string;
4905: function XorDecode(const Key, Source: string): string;
4906: { ** Command line routines ** }
4907: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4908: { ** Numeric string handling routines ** }
4909: function Numb2USA(const S: string): string;
4910: { Numb2USA converts numeric string S to USA-format. }
4911: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4912: { Dec2Hex converts the given value to a hexadecimal string representation
4913:   with the minimum number of digits (A) specified. }
4914: function Hex2Dec(const S: string): Longint;
4915: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4916: function Dec2Numb(N: Int64; A, B: Byte): string;
4917: { Dec2Numb converts the given value to a string representation with the
4918:   base equal to B and with the minimum number of digits (A) specified. }
4919: function Numb2Dec(S: string; B: Byte): Int64;
4920: { Numb2Dec converts the given B-based numeric string to the corresponding
4921:   integer value. }
4922: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4923: { IntToBin converts the given value to a binary string representation
4924:   with the minimum number of digits specified. }
4925: function IntToRoman(Value: Longint): string;
4926: { IntToRoman converts the given value to a roman numeric string representation. }
4927: function RomanToInt(const S: string): Longint;
4928: { RomanToInt converts the given string to an integer value. If the string
4929:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4930: function FindNotBlankCharPos(const S: string): Integer;
4931: function FindNotBlankCharPosW(const S: WideString): Integer;
4932: function AnsiChangeCase(const S: string): string;
4933: function WideChangeCase(const S: string): string;
4934: function StartsText(const SubStr, S: string): Boolean;
4935: function EndsText(const SubStr, S: string): Boolean;
4936: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4937: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4938: {end JvStrUtils}
4939: {$IFDEF UNIX}
4940: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4941: {$ENDIF UNIX}
4942: { begin JvFileUtil }
4943: function FileDateTime(const FileName: string): TDateTime;
4944: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4945: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4946: function NormalDir(const DirName: string): string;
4947: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4948: function ValidFileName(const FileName: string): Boolean;
4949: {$IFDEF MSWINDOWS}
4950: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4951: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4952: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4953: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4954: {$ENDIF MSWINDOWS}
4955: function GetWindowsDir: string;
4956: function GetSystemDir: string;
4957: function ShortToLongFileName(const ShortName: string): string;
4958: function LongToShortFileName(const LongName: string): string;
4959: function ShortToLongPath(const ShortName: string): string;
4960: function LongToShortPath(const LongName: string): string;
4961: {$IFDEF MSWINDOWS}
4962: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4963: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4964: {$ENDIF MSWINDOWS}
4965: { end JvFileUtil }
4966: // Works like PtInRect but includes all edges in comparision
4967: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4968: // Works like PtInRect but excludes all edges from comparision

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4969: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4970: function FourDigitYear: Boolean; [$IFDEF SUPPORTS_DEPRECATED] deprecated; [$ENDIF]
4971: function IsFourDigitYear: Boolean;
4972: { moved from JvJVCLUtils }
4973: //Open an object with the shell (url or something like that)
4974: function OpenObject(const Value: string): Boolean; overload;
4975: function OpenObject(Value: PChar): Boolean; overload;
4976: [$IFDEF MSWINDOWS]
4977: //Raise the last Exception
4978: procedure RaiseLastWin32; overload;
4979: procedure RaiseLastWin32(const Text: string); overload;
4980: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
        significant 32 bits of a file's binary version number. Typically, this includes the major and minor
        version placed together in one 32-bit Integer. I
4981: function GetFileVersion(const AFileName: string): Cardinal;
4982: [$EXTERNALSYM GetFileVersion]
4983: //Get version of Shell.dll
4984: function GetShellVersion: Cardinal;
4985: [$EXTERNALSYM GetShellVersion]
4986: // CD functions on HW
4987: procedure OpenCdDrive;
4988: procedure CloseCdDrive;
4989: // returns True if Drive is accessible
4990: function DiskInDrive(Drive: Char): Boolean;
4991: [$ENDIF MSWINDOWS]
4992: //Same as linux function ;
4993: procedure PError(const Text: string);
4994: // execute a program without waiting
4995: procedure Exec(const FileName, Parameters, Directory: string);
4996: // execute a program and wait for it to finish
4997: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
4998: // returns True if this is the first instance of the program that is running
4999: function FirstInstance(const ATitle: string): Boolean;
5000: // restores a window based on it's classname and Caption. Either can be left empty
5001: // to widen the search
5002: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
5003: // manipulate the traybar and start button
5004: procedure HideTraybar;
5005: procedure ShowTraybar;
5006: procedure ShowStartButton(Visible: Boolean = True);
5007: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
5008: procedure MonitorOn;
5009: procedure MonitorOff;
5010: procedure LowPower;
5011: // send a key to the window named AppName
5012: function SendKey(const AppName: string; Key: Char): Boolean;
5013: [$IFDEF MSWINDOWS]
5014: // returns a list of all win currently visible, the Objects property is filled with their window handle
5015: procedure GetVisibleWindows(List: TStrings);
5016: Function GetVisibleWindowsF( List : TStrings):TStrings';
5017: // associates an extension to a specific program
5018: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5019: procedure AddToRecentDocs(const FileName: string);
5020: function GetRecentDocs: TStringList;
5021: [$ENDIF MSWINDOWS]
5022: function CharIsMoney(const Ch: Char): Boolean;
5023: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5024: function IntToExtended(I: Integer): Extended;
5025: { GetChangedText works out the new text given the current cursor pos & the key pressed
      It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5027: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5028: function MakeYear4digit(Year, Pivot: Integer): Integer;
5029: //function StrIsInteger(const S: string): Boolean;
5030: function StrIsFloatMoney(const Ps: string): Boolean;
5031: function StrIsDateTime(const Ps: string): Boolean;
5032: function PreformatDateString(Ps: string): string;
5033: function BooleanToInteger(const B: Boolean): Integer;
5034: function StringToBoolean(const Ps: string): Boolean;
5035: function SafeStrToDate(const Ps: string): TDateTime;
5036: function SafeStrToDate(const Ps: string): TDateTime;
5037: function SafeStrToTime(const Ps: string): TDateTime;
5038: function StrDelete(const psSub, psMain: string): string;
5039: { returns the fractional value of pcValue}
5040: function TimeOnly(pcValue: TDateTime): TTIme;
5041: { returns the integral value of pcValue }
5042: function DateOnly(pcValue: TDateTime): TDate;
5043: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5044: const { TdateTime value used to signify Null value}
5045: NullEquivalentDate: TDateTime = 0.0;
5046: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5047: // Replacement for Win32Check to avoid platform specific warnings in D6
5048: function OSCheck(RetVal: Boolean): Boolean;
5049: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
      Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
      not be forced to use FileCtrl unnecessarily }
5050: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5053: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5054: { MinimizeString truncates long string, S, and appends...' symbols,if Length of S is more than MaxLen }
5055: function MinimizeString(const S: string; const MaxLen: Integer): string;

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5056: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5057: { 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.}
5058: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5059: {$ENDIF MSWINDOWS}
5060: procedure ResourceNotFound(ResID: PChar);
5061: function EmptyRect: TRect;
5062: function RectWidth(R: TRect): Integer;
5063: function RectHeight(R: TRect): Integer;
5064: function CompareRect(const R1, R2: TRect): Boolean;
5065: procedure RectNormalize(var R: TRect);
5066: function RectIsSquare(const R: TRect): Boolean;
5067: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5068: //IF AMaxSize = -1 ,then auto calc Square's max size
5069: {$IFDEF MSWINDOWS}
5070: procedure FreeUnusedOle;
5071: function GetWindowsVersion: string;
5072: function LoadDLL(const LibName: string): THandle;
5073: function RegisterServer(const ModuleName: string): Boolean;
5074: function UnregisterServer(const ModuleName: string): Boolean;
5075: {$ENDIF MSWINDOWS}
5076: { String routines }
5077: function GetEnvVar(const VarName: string): string;
5078: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5079: function StringToPChar(var S: string): PChar;
5080: function StrPAAlloc(const S: string): PChar;
5081: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5082: function DropT(const S: string): string;
5083: { Memory routines }
5084: function AllocMemo(Size: Longint): Pointer;
5085: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5086: procedure FreeMemo(var fpBlock: Pointer);
5087: function GetMemoSize(fpBlock: Pointer): Longint;
5088: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5089: { Manipulate huge pointers routines }
5090: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5091: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5092: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5093: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5094: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5095: function WindowClassName(Wnd: THandle): string;
5096: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5097: procedure ActivateWindow(Wnd: THandle);
5098: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5099: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5100: { SetWindowTop put window to top without recreating window }
5101: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5102: procedure CenterWindow(Wnd: THandle);
5103: function MakeVariant(const Values: array of Variant): Variant;
5104: { Convert dialog units to pixels and backwards }
5105: {$IFDEF MSWINDOWS}
5106: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5107: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5108: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5109: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5110: {$ENDIF MSWINDOWS}
5111: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5112: {$IFDEF BCB}
5113: function FindPrevInstance(const MainFormClass: ShortString;const ATitle: string): THandle;
5114: function ActivatePrevInstance(const MainFormClass: ShortString;const ATitle: string): Boolean;
5115: {$ELSE}
5116: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5117: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5118: {$ENDIF BCB}
5119: {$IFDEF MSWINDOWS}
5120: { BrowseForFolderNative displays Browse For Folder dialog }
5121: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5122: {$ENDIF MSWINDOWS}
5123: procedure AntiAlias(Clip: TBitmap);
5124: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5125: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5126:   ABitmap: TBitmap; const SourceRect: TRect);
5127: function IsTrueType(const FontName: string): Boolean;
5128: // Removes all non-numeric characters from AValue and returns the resulting string
5129: function TextToValText(const AValue: string): string;
5130: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean;
5131: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings );
5132: Function ReplaceRegExpr( const ARegExpr,AInputStr,
      AReplaceStr:RegExprString;AUseSubstitution:bool):RegExprString;
5133: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString;
5134: Function RegExprSubExpressions( const ARegExpr:string; ASubExps:TStrings; AExtendedSyntax : boolean ) :
5135: *****unit uPSI_JvTFUtils;
5136: *****unit uPSI_JvTFUtils;
5137: Function JExtractYear( ADate : TDateTime ) : Word;
5138: Function JExtractMonth( ADate : TDateTime ) : Word;
5139: Function JExtractDay( ADate : TDateTime ) : Word;
5140: Function ExtractHours( ATime : TDateTime ) : Word;

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5141: Function ExtractMins( ATime : TDateTime ) : Word
5142: Function ExtractSecs( ATime : TDateTime ) : Word
5143: Function ExtractMSecs( ATime : TDateTime ) : Word
5144: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5145: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5146: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5147: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )
5148: Procedure IncDOW( var DOW : TTFFDayOfWeek; N : Integer )
5149: Procedure IncDays( var ADate : TDateTime; N : Integer )
5150: Procedure IncWeeks( var ADate : TDateTime; N : Integer )
5151: Procedure IncMonths( var ADate : TDateTime; N : Integer )
5152: Procedure IncYears( var ADate : TDateTime; N : Integer )
5153: Function EndOfMonth( ADate : TDateTime ) : TDateTime
5154: Function IsFirstOfMonth( ADate : TDateTime ) : Boolean
5155: Function IsEndOfMonth( ADate : TDateTime ) : Boolean
5156: Procedure EnsureMonth( Month : Word )
5157: Procedure EnsureDOW( DOW : Word )
5158: Function EqualDates( D1, D2 : TDateTime ) : Boolean
5159: Function Lesser( N1, N2 : Integer ) : Integer
5160: Function Greater( N1, N2 : Integer ) : Integer
5161: Function GetDivLength( TotalLength, DivCount, DivNum : Integer ) : Integer
5162: Function GetDivNum( TotalLength, DivCount, X : Integer ) : Integer
5163: Function GetDivStart( TotalLength, DivCount, DivNum : Integer ) : Integer
5164: Function DOWToBorl( ADOW : TTFFDayOfWeek ) : Integer
5165: Function BorlToDOW( BorlDOW : Integer ) : TTFFDayOfWeek
5166: Function DateToDOW( ADate : TDateTime ) : TTFFDayOfWeek
5167: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop : Integer; var TextBounds : TRect;
  AFont : TFont; AAngle : Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5168: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
  HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string )
5169: Function JRectWidth( ARect : TRect ) : Integer
5170: Function JRectHeight( ARect : TRect ) : Integer
5171: Function JEmptyRect : TRect
5172: Function IsClassByName( Obj : TObject; ClassName : string ) : Boolean
5173:
5174: procedure SIRegister_MSysUtils(CL: TPPascalCompiler);
5175: begin
5176:   Procedure HideTaskBarButton( hWindow : HWND )
5177:   Function msLoadStr( ID : Integer ) : String
5178:   Function msFormat( fmt : String; params : array of const ) : String
5179:   Function msFileExists( const FileName : String ) : Boolean
5180:   Function msIntToStr( Int : Int64 ) : String
5181:   Function msStrPas( const Str : PChar ) : String
5182:   Function msRenameFile( const OldName, NewName : String ) : Boolean
5183:   Function CutFileName( s : String ) : String
5184:   Function GetVersionInfo( var VersionString : String ) : DWORD
5185:   Function FormatTime( t : Cardinal ) : String
5186:   Function msCreateDir( const Dir : string ) : Boolean
5187:   Function SetAutoRun( NeedAutoRun : Boolean; AppName : String ) : Boolean
5188:   Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword ) : DWORD
5189:   Function msStrLen( Str : PChar ) : Integer
5190:   Function msDirectoryExists( const Directory : String ) : Boolean
5191:   Function GetFolder( hWnd : HWND; RootDir : Integer; Caption : String ) : String
5192:   Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte ) : LongBool
5193:   Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
5194:   Procedure SetEditWndProc( hWnd : HWND; ptr : TObject )
5195:   Function GetTextFromFile( Filename : String ) : string
5196:   Function IsTopMost( hWnd : HWND ) : Bool // 'IWA_ALPHA', 'LongWord').SetUInt( $00000002 );
5197:   Function msStrToIntDef( const s : String; const i : Integer ) : Integer
5198:   Function msStrToInt( s : String ) : Integer
5199:   Function GetItemText( hDlg : THandle; ID : DWORD ) : String
5200: end;
5201:
5202: procedure SIRegister_ESBMaths2(CL: TPPascalCompiler);
5203: begin
5204:   //TDynFloatArray', 'array of Extended
5205:   TDynLWordArray', 'array of LongWord
5206:   TDynLIntArray', 'array of LongInt
5207:   TDynFloatMatrix', 'array of TDynFloatArray
5208:   TDynLWordMatrix', 'array of TDynLWordArray
5209:   TDynLIntArray', 'array of TDynLIntArray
5210:   Function SquareAll( const X : TDynFloatArray ) : TDynFloatArray
5211:   Function InverseAll( const X : TDynFloatArray ) : TDynFloatArray
5212:   Function LnAll( const X : TDynFloatArray ) : TDynFloatArray
5213:   Function Log10All( const X : TDynFloatArray ) : TDynFloatArray
5214:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended ) : TDynFloatArray
5215:   Function AddVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5216:   Function SubVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5217:   Function MultVectors( const X, Y : TDynFloatArray ) : TDynFloatArray
5218:   Function DotProduct( const X, Y : TDynFloatArray ) : Extended
5219:   Function MNorm( const X : TDynFloatArray ) : Extended
5220:   Function MatrixIsRectangular( const X : TDynFloatMatrix ) : Boolean
5221:   Procedure MatrixDimensions( const X : TDynFloatMatrix; var Rows, Columns : LongWord; var Rectangular : Boolean );
5222:   Function MatrixIsSquare( const X : TDynFloatMatrix ) : Boolean
5223:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix ) : Boolean
5224:   Function AddMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix
5225:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix )
5226:   Function SubtractMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix
5227:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix )

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5228: Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended ) : TDynFloatMatrix
5229: Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended );
5230: Function MultiplyMatrices( const X, Y : TDynFloatMatrix ) : TDynFloatMatrix;
5231: Function TransposeMatrix( const X : TDynFloatMatrix ) : TDynFloatMatrix;
5232: Function GrandMean( const X : TDynFloatMatrix; var N : LongWord ) : Extended
5233: end;
5234:
5235: procedure SIRegister_ESBMaths(CL: TPSPascalCompiler);
5236: begin
5237:   'ESBMinSingle','Single').setExtended( 1.5e-45 );
5238:   'ESBMaxSingle','Single').setExtended( 3.4e+38 );
5239:   'ESBMinDouble','Double').setExtended( 5.0e-324 );
5240:   'ESBMaxDouble','Double').setExtended( 1.7e+308 );
5241:   'ESBMinExtended','Extended').setExtended( 3.6e-4951 );
5242:   'ESBMaxExtended','Extended').setExtended( 1.1e+4932 );
5243:   'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807 );
5244:   'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807 );
5245:   'ESBSqrt2','Extended').setExtended( 1.4142135623730950488 );
5246:   'ESBSqrt3','Extended').setExtended( 1.7320508075688772935 );
5247:   'ESBSqrt5','Extended').setExtended( 2.2360679774997896964 );
5248:   'ESBSqrt10','Extended').setExtended( 3.1622776601683793320 );
5249:   'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729 );
5250:   'ESBCbrt2','Extended').setExtended( 1.2599210498948731648 );
5251:   'ESBCbrt3','Extended').setExtended( 1.44224957037408323 );
5252:   'ESBCbrt10','Extended').setExtended( 2.1544346900318837219 );
5253:   'ESBCbrt100','Extended').setExtended( 4.6415888336127788924 );
5254:   'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630 );
5255:   'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440 );
5256:   'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451 );
5257:   'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928 );
5258:   'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695 );
5259:   'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147 );
5260:   'ESBe','Extended').setExtended( 2.7182818284590452354 );
5261:   'ESBe2','Extended').setExtended( 7.3890560989306502272 );
5262:   'ESBePi','Extended').setExtended( 23.140692632779269006 );
5263:   'ESBePiOn2','Extended').setExtended( 4.8104773809653516555 );
5264:   'ESBePiOn4','Extended').setExtended( 2.1932800507380154566 );
5265:   'ESBLn2','Extended').setExtended( 0.69314718055994530942 );
5266:   'ESBLn10','Extended').setExtended( 2.30258509299404568402 );
5267:   'ESBLnPi','Extended').setExtended( 1.1447298858490017414 );
5268:   'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478 );
5269:   'ESBLog2Base10','Extended').setExtended( 0.30102999566398119521 );
5270:   'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730 );
5271:   'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339 );
5272:   'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765 );
5273:   'ESBPi','Extended').setExtended( 3.1415926535897932385 );
5274:   'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1 );
5275:   'ESBTwoPi','Extended').setExtended( 6.2831853071795864769 );
5276:   'ESBThreePi','Extended').setExtended( 9.4247779607693797153 );
5277:   'ESBPi2','Extended').setExtended( 9.8696044010893586188 );
5278:   'ESBPiToE','Extended').setExtended( 22.459157718361045473 );
5279:   'ESBPiOn2','Extended').setExtended( 1.5707963267948966192 );
5280:   'ESBPiOn3','Extended').setExtended( 1.0471975511965977462 );
5281:   'ESBPiOn4','Extended').setExtended( 0.7853981633974483096 );
5282:   'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577 );
5283:   'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846 );
5284:   'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0 );
5285:   'ESBOneRadian','Extended').setExtended( 57.295779513082320877 );
5286:   'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2 );
5287:   'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4 );
5288:   'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6 );
5289:   'ESBGamma','Extended').setExtended( 0.57721566490153286061 );
5290:   'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1 );
5291: //LongWord', 'Cardinal
5292: TBitList', 'Word
5293: Function UMul( const Num1, Num2 : LongWord ) : LongWord
5294: Function UMulDiv2p32( const Num1, Num2 : LongWord ) : LongWord
5295: Function UMulDiv( const Num1, Num2, Divisor : LongWord ) : LongWord
5296: Function UMulMod( const Num1, Num2, Modulus : LongWord ) : LongWord
5297: Function SameFloat( const X1, X2 : Extended ) : Boolean
5298: Function FloatIsZero( const X : Extended ) : Boolean
5299: Function FloatIsPositive( const X : Extended ) : Boolean
5300: Function FloatIsNegative( const X : Extended ) : Boolean
5301: Procedure IncLim( var B : Byte; const Limit : Byte )
5302: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt )
5303: Procedure IncLimW( var B : Word; const Limit : Word )
5304: Procedure IncLimI( var B : Integer; const Limit : Integer )
5305: Procedure IncLimL( var B : LongInt; const Limit : Longint )
5306: Procedure DecLim( var B : Byte; const Limit : Byte )
5307: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt )
5308: Procedure DecLimW( var B : Word; const Limit : Word )
5309: Procedure DecLimI( var B : Integer; const Limit : Integer )
5310: Procedure DecLimL( var B : LongInt; const Limit : LongInt )
5311: Function MaxB( const B1, B2 : Byte ) : Byte
5312: Function MinB( const B1, B2 : Byte ) : Byte
5313: Function MaxSI( const B1, B2 : ShortInt ) : ShortInt
5314: Function MinSI( const B1, B2 : ShortInt ) : ShortInt
5315: Function MaxW( const B1, B2 : Word ) : Word
5316: Function MinW( const B1, B2 : Word ) : Word

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5317: Function esbMaxI( const B1, B2 : Integer ) : Integer
5318: Function esbMinI( const B1, B2 : Integer ) : Integer
5319: Function MaxL( const B1, B2 : LongInt ) : LongInt
5320: Function MinL( const B1, B2 : LongInt ) : LongInt
5321: Procedure SwapB( var B1, B2 : Byte )
5322: Procedure SwapSI( var B1, B2 : ShortInt )
5323: Procedure SwapW( var B1, B2 : Word )
5324: Procedure SwapI( var B1, B2 : SmallInt )
5325: Procedure SwapL( var B1, B2 : LongInt )
5326: Procedure SwapI32( var B1, B2 : Integer )
5327: Procedure SwapC( var B1, B2 : LongWord )
5328: Procedure SwapInt64( var X, Y : Int64 )
5329: Function esbSign( const B : LongInt ) : ShortInt
5330: Function Max4Word( const X1, X2, X3, X4 : Word ) : Word
5331: Function Min4Word( const X1, X2, X3, X4 : Word ) : Word
5332: Function Max3Word( const X1, X2, X3 : Word ) : Word
5333: Function Min3Word( const X1, X2, X3 : Word ) : Word
5334: Function MaxBArray( const B : array of Byte ) : Byte
5335: Function MaxWArray( const B : array of Word ) : Word
5336: Function MaxSIArry( const B : array of ShortInt ) : ShortInt
5337: Function MaxIArray( const B : array of Integer ) : Integer
5338: Function MaxLArray( const B : array of LongInt ) : LongInt
5339: Function MinBArray( const B : array of Byte ) : Byte
5340: Function MinWArray( const B : array of Word ) : Word
5341: Function MinSIArry( const B : array of ShortInt ) : ShortInt
5342: Function MinIArray( const B : array of Integer ) : Integer
5343: Function MinLArray( const B : array of LongInt ) : LongInt
5344: Function SumBArray( const B : array of Byte ) : Byte
5345: Function SumBArray2( const B : array of Byte ) : Word
5346: Function SumSIArry( const B : array of ShortInt ) : ShortInt
5347: Function SumSIArry2( const B : array of ShortInt ) : Integer
5348: Function SumWArray( const B : array of Word ) : Word
5349: Function SumWArray2( const B : array of Word ) : LongInt
5350: Function SumIArray( const B : array of Integer ) : Integer
5351: Function SumLArray( const B : array of LongInt ) : LongInt
5352: Function SumLWArray( const B : array of LongWord ) : LongWord
5353: Function ESBdigts( const X : LongWord ) : Byte
5354: Function BitsHighest( const X : LongWord ) : Integer
5355: Function ESBbitsNeeded( const X : LongWord ) : Integer
5356: Function esbGCD( const X, Y : LongWord ) : LongWord
5357: Function esbLCM( const X, Y : LongInt ) : Int64
5358: //Function esbLCM( const X, Y : LongInt ) : LongInt
5359: Function RelativePrime( const X, Y : LongWord ) : Boolean
5360: Function Get87ControlWord : TBitList
5361: Procedure Set87ControlWord( const CWord : TBitList )
5362: Procedure SwapExt( var X, Y : Extended )
5363: Procedure SwapDbl( var X, Y : Double )
5364: Procedure SwapSing( var X, Y : Single )
5365: Function esbSgn( const X : Extended ) : ShortInt
5366: Function Distance( const X1, Y1, X2, Y2 : Extended ) : Extended
5367: Function ExtMod( const X, Y : Extended ) : Extended
5368: Function ExtRem( const X, Y : Extended ) : Extended
5369: Function CompMOD( const X, Y : Comp ) : Comp
5370: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended )
5371: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended )
5372: Function DMS2Extended( const Degs, Mins, Secs : Extended ) : Extended
5373: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended )
5374: Function MaxExt( const X, Y : Extended ) : Extended
5375: Function MinExt( const X, Y : Extended ) : Extended
5376: Function MaxEArray( const B : array of Extended ) : Extended
5377: Function MinEArray( const B : array of Extended ) : Extended
5378: Function MaxSArray( const B : array of Single ) : Single
5379: Function MinSArray( const B : array of Single ) : Single
5380: Function MaxCArray( const B : array of Comp ) : Comp
5381: Function MinCArray( const B : array of Comp ) : Comp
5382: Function SumSArray( const B : array of Single ) : Single
5383: Function SumEArray( const B : array of Extended ) : Extended
5384: Function SumSqEArray( const B : array of Extended ) : Extended
5385: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended ) : Extended
5386: Function SumXYEArray( const X, Y : array of Extended ) : Extended
5387: Function SumCArray( const B : array of Comp ) : Comp
5388: Function FactorialX( A : LongWord ) : Extended
5389: Function PermutationX( N, R : LongWord ) : Extended
5390: Function esbbinomialCoeff( N, R : LongWord ) : Extended
5391: Function IsPositiveEArray( const X : array of Extended ) : Boolean
5392: Function esbGeometricMean( const X : array of Extended ) : Extended
5393: Function esbHarmonicMean( const X : array of Extended ) : Extended
5394: Function ESEMean( const X : array of Extended ) : Extended
5395: Function esbSampleVariance( const X : array of Extended ) : Extended
5396: Function esbPopulationVariance( const X : array of Extended ) : Extended
5397: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended )
5398: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended )
5399: Function GetMedian( const SortedX : array of Extended ) : Extended
5400: Function GetMode( const SortedX : array of Extended; var Mode : Extended ) : Boolean
5401: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended )
5402: Function ESBMagnitude( const X : Extended ) : Integer
5403: Function ESBTan( Angle : Extended ) : Extended
5404: Function ESBCot( Angle : Extended ) : Extended
5405: Function ESBCossec( const Angle : Extended ) : Extended

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5406: Function ESBSec( const Angle : Extended ) : Extended
5407: Function ESBArcTan( X, Y : Extended ) : Extended
5408: Procedure ESBsinCos( Angle : Extended; var SinX, CosX : Extended)
5409: Function ESBArcCos( const X : Extended ) : Extended
5410: Function ESBArcSin( const X : Extended ) : Extended
5411: Function ESBArcSec( const X : Extended ) : Extended
5412: Function ESBArcCosec( const X : Extended ) : Extended
5413: Function ESBLog10( const X : Extended ) : Extended
5414: Function ESBLog2( const X : Extended ) : Extended
5415: Function ESBLogBase( const X, Base : Extended ) : Extended
5416: Function Pow2( const X : Extended ) : Extended
5417: Function IntPow( const Base : Extended; const Exponent : LongWord ) : Extended
5418: Function ESBIntPower( const X : Extended; const N : LongInt ) : Extended
5419: Function XtoY( const X, Y : Extended ) : Extended
5420: Function esbTenToY( const Y : Extended ) : Extended
5421: Function esbTwoToY( const Y : Extended ) : Extended
5422: Function LogXtoBaseY( const X, Y : Extended ) : Extended
5423: Function esbISqrt( const I : LongWord ) : Longword
5424: Function ILog2( const I : LongWord ) : LongWord
5425: Function IGreatestPowerOf2( const N : LongWord ) : LongWord
5426: Function ESBArCosh( X : Extended ) : Extended
5427: Function ESBArSinh( X : Extended ) : Extended
5428: Function ESBArTanh( X : Extended ) : Extended
5429: Function ESBcosh( X : Extended ) : Extended
5430: Function ESBsinh( X : Extended ) : Extended
5431: Function ESBTanh( X : Extended ) : Extended
5432: Function InverseGamma( const X : Extended ) : Extended
5433: Function esbGamma( const X : Extended ) : Extended
5434: Function esbLnGamma( const X : Extended ) : Extended
5435: Function esbBeta( const X, Y : Extended ) : Extended
5436: Function IncompleteBeta( X : Extended; P, Q : Extended ) : Extended
5437: end;
5438:
5439: *****Integer Huge Cardinal Utils*****
5440: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean) : uint64
5441: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean) : uint32
5442: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean) : uint64
5443: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean) : uint32
5444: Function BitCount_8( Value : byte ) : integer
5445: Function BitCount_16( Value : uint16 ) : integer
5446: Function BitCount_32( Value : uint32 ) : integer
5447: Function BitCount_64( Value : uint64 ) : integer
5448: Function CountSetBits_64( Value : uint64 ) : integer TPrimalityTestNoticeProc',
5449: Procedure ( CountPrimalityTests : integer )
5450: Function gcd( a, b : THugeCardinal ) : THugeCardinal
5451: Function lcm( a, b : THugeCardinal ) : THugeCardinal
5452: Function isCoPrime( a, b : THugeCardinal ) : boolean
5453: Function isProbablyPrime(p: THugeCardinal;OnProgress: TProgress; var wasAborted: boolean): boolean
5454: Function hasSmallFactor( p : THugeCardinal ) : boolean
5455: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
      TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
      NumbersTested: integer ) : boolean
5456: Function Inverse( Prime, Modulus : THugeCardinal ) : THugeCardinal
5457: Const ('StandardExponent','LongInt'( 65537 );
5458: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
      Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
      Numbers
5459: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal ) : boolean'
5460:
5461: procedure SIRegister_xrtl_math_Integer(CL: TPSPPascalCompiler);
5462: begin
5463:   AddTypeS('TXRTLInteger', 'array of Integer
5464:   AddClassN(FindClass('TOBJECT'), 'EXRTLMathException
5465:   (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument
5466:   AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero
5467:   AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument
5468:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix
5469:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit
5470:   AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument
5471:   'BitsPerByte','LongInt'( 8 );
5472:   BitsPerDigit','LongInt'( 32 );
5473:   SignBitMask , 'LongWord( $80000000 );
5474:   Function XRTLAdjustBits( const ABits : Integer ) : Integer
5475:   Function XRTLlength( const AInteger : TXRTLInteger ) : Integer
5476:   Function XRTLDataBits( const AInteger : TXRTLInteger ) : Integer
5477:   Procedure XRTLBBitPosition( const BitIndex : Integer; var Index, Mask : Integer )
5478:   Procedure XRTLBBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer )
5479:   Procedure XRTLBBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer )
5480:   Function XRTLBBitGet( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Integer
5481:   Function XRTLBGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Boolean
5482:   Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int;var AResult:TXRTLInteger):Int;
5483:   Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5484:   Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5485:   Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5486:   Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5487:   Procedure XRTLOR( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5488:   Procedure XRTLAND( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5489:   Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5490:   Function XRTLSign( const AInteger : TXRTLInteger ) : Integer

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5491: Procedure XRTLZero( var AInteger : TXRTLInteger)
5492: Procedure XRTLOne( var AInteger : TXRTLInteger)
5493: Procedure XRTLMOne( var AInteger : TXRTLInteger)
5494: Procedure XRTLTTwo( var AInteger : TXRTLInteger)
5495: Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5496: Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5497: Procedure XRTLFULLSum( const A, B, C : Integer; var Sum, Carry : Integer)
5498: Function XRTLAdd( const AInteger1 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5499: Function XRTLAdd1( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5500: Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer;
5501: Function XRTLSub1( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5502: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger) : Integer;
5503: Function XRTLCompare1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64) : Integer;
5504: Function XRTLUMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5505: Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer
5506: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger) : Integer
5507: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger)
5508: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5509: Procedure XRTLSqrt( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5510: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5511: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHIGHApproxResult:TXRTLInteger)
5512: Procedure XRTLURootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHIGHApproxResult:TXRTLInteger);
5513: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5514: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult:TXRTLInteger)
5515: Procedure XRTLSSLBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5516: Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5517: Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5518: Procedure XRTLSDL( const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger)
5519: Procedure XRTLSSDL( const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5520: Procedure XRTLRCDL( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5521: Procedure XRTLSSLBR( const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5522: Procedure XRTLSABR( const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5523: Procedure XRTLRCBR( const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5524: Procedure XRTLSSLDR( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5525: Procedure XRTLSSADR( const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5526: Procedure XRTLRCDR( const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger)
5527: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer) : string
5528: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer) : string
5529: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer) : string
5530: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger)
5531: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger)
5532: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer)
5533: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger);
5534: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger);
5535: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger);
5536: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger)
5537: Procedure XRTLSplit( const AInteger : TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5538: Function XRTLGetMSBitIndex( const AInteger : TXRTLInteger) : Integer
5539: Procedure XRTLMInMax( const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger)
5540: Procedure XRTLMIn( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5541: Procedure XRTLMIn1( const AInteger1: TXRTLInteger;const AInteger2:Int64;var AResult : TXRTLInteger);
5542: Procedure XRTLMMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger);
5543: Procedure XRTLMMax1( const AInteger1:TXRTLInteger; const AInteger2:Int64; var AResult:TXRTLInteger);
5544: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5545: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger)
5546: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger)
5547: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger)
5548: end;
5549:
5550: procedure SIRegister_JvXPCoreUtils(CL: TPSPPascalCompiler);
5551: begin
5552:   Function JvXPMETHODSEqual( const Method1, Method2 : TMethod) : Boolean
5553:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer)
5554:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap);
5555:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect)
5556:   Procedure JvXPDrawBoundLines(const ACan:TCanvas;const BoundLns:TJvXPBoundLns;const
      ACColor:TColor;Rect:TRect;
5557:   Procedure JvXPConvertToGray2( Bitmap : TBitmap)
5558:   Procedure JvXPRENDERText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer)
5559:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool;
5560:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const ACOLOR : TColor)
5561:   Procedure JvXPSetDrawFlags(const AAlignment: TAlignment;const AWordWrap: Boolean; var Flags : Integer)
5562:   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)
5563: end;
5564:
5565:
5566: procedure SIRegister_uwinstr(CL: TPSPPascalCompiler);
5567: begin
5568:   Function StrDec( S : String) : String
5569:   Function uIsNumeric( var S : String; var X : Float) : Boolean
5570:   Function ReadNumFromEdit( Edit : TEdit) : Float

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5571: Procedure WriteNumToFile( var F : Text; X : Float)
5572: end;
5573:
5574: procedure SIRegister_utexplot(CL: TPPascalCompiler);
5575: begin
5576:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean) : Boolean
5577:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
5578:   Procedure TeX_LeaveGraphics( Footer : Boolean)
5579:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5580:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5581:   Procedure TeX_SetGraphTitle( Title : String)
5582:   Procedure TeX_SetOxTitle( Title : String)
5583:   Procedure TeX_SetOyTitle( Title : String)
5584:   Procedure TeX_PlotOxAxis
5585:   Procedure TeX_PlotOyAxis
5586:   Procedure TeX_PlotGrid( Grid : TGrid)
5587:   Procedure TeX_WriteGraphTitle
5588:   Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5589:   Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5590:   Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5591:   Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5592:   Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5593:   Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5594:   Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5595:   Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5596:   Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5597:   Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5598:   Function Xcm( X : Float) : Float
5599:   Function Ycm( Y : Float) : Float
5600: end;
5601:
5602: *-----*)
5603: procedure SIRegister_VarRecUtils(CL: TPPascalCompiler);
5604: begin
5605:   TConstArray', 'array of TVarRec
5606:   Function CopyVarRec( const Item : TVarRec) : TVarRec
5607:   Function CreateConstArray( const Elements : array of const) : TConstArray
5608:   Procedure FinalizeVarRec( var Item : TVarRec)
5609:   Procedure FinalizeConstArray( var Arr : TConstArray)
5610: end;
5611:
5612: procedure SIRegister_StStrS(CL: TPPascalCompiler);
5613: begin
5614:   Function HexBS( B : Byte) : ShortString
5615:   Function HexWS( W : Word) : ShortString
5616:   Function HexLS( L : LongInt) : ShortString
5617:   Function HexPtrS( P : Pointer) : ShortString
5618:   Function BinaryBS( B : Byte) : ShortString
5619:   Function BinaryWS( W : Word) : ShortString
5620:   Function BinaryLS( L : LongInt) : ShortString
5621:   Function OctalBS( B : Byte) : ShortString
5622:   Function OctalWS( W : Word) : ShortString
5623:   Function OctalLS( L : LongInt) : ShortString
5624:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5625:   Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5626:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5627:   Function Str2RealS( const S : ShortString; var R : Double) : Boolean
5628:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5629:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5630:   Function Long2StrS( L : LongInt) : ShortString
5631:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5632:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5633:   Function ValPrepS( const S : ShortString) : ShortString
5634:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5635:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5636:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5637:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5638:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5639:   Function TrimLeadS( const S : ShortString) : ShortString
5640:   Function TrimTrails( const S : ShortString) : ShortString
5641:   Function TrimS( const S : ShortString) : ShortString
5642:   Function TrimSpacesS( const S : ShortString) : ShortString
5643:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5644:   Function Centers( const S : ShortString; Len : Cardinal) : ShortString
5645:   Function EntabS( const S : ShortString; TabsSize : Byte) : ShortString
5646:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5647:   Function ScrambleS( const S : ShortString) : ShortString
5648:   Function SubstituteS( const S, FromStr,ToStr : ShortString) : ShortString
5649:   Function Filters( const S, Filters : ShortString) : ShortString
5650:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5651:   Function CharCounts( const S : ShortString; C : AnsiChar) : Byte
5652:   Function WordCounts( const S, WordDelims : ShortString) : Cardinal
5653:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5654:   Function ExtractWordsS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5655:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5656:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5657:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5658: Procedure WordWrapS(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)

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5659: Function CompStringS( const S1, S2 : ShortString ) : Integer
5660: Function CompUCStringS( const S1, S2 : ShortString ) : Integer
5661: Function SoundexS( const S : ShortString ) : ShortString
5662: Function MakeLetterSetS( const S : ShortString ) : Longint
5663: Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable )
5664: Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5665: Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5666: Function DefaultExtensions( const Name, Ext : ShortString ) : ShortString
5667: Function ForceExtensionS( const Name, Ext : ShortString ) : ShortString
5668: Function JustFilenameS( const PathName : ShortString ) : ShortString
5669: Function JustNameS( const PathName : ShortString ) : ShortString
5670: Function JustExtensionS( const Name : ShortString ) : ShortString
5671: Function JustPathnameS( const PathName : ShortString ) : ShortString
5672: Function AddBackSlashS( const DirName : ShortString ) : ShortString
5673: Function CleanPathNameS( const PathName : ShortString ) : ShortString
5674: Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal ) : Boolean
5675: Function CommaizeS( L : LongInt ) : ShortString
5676: Function CommaizeChS( L : Longint; Ch : AnsiChar ) : ShortString
5677: Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr:SString;Sep,
DecPt:Char):ShortString;
5678: Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5679: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal ) : Boolean
5680: Function StrStPosS( const P, S : ShortString; var Pos : Cardinal ) : Boolean
5681: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5682: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal ) : ShortString
5683: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal ) : ShortString
5684: Function StrChDeleteS( const S : ShortString; Pos : Cardinal ) : ShortString
5685: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5686: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5687: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5688: Function CopyLeftS( const S : ShortString; Len : Cardinal ) : ShortString
5689: Function CopyMidS( const S : ShortString; First, Len : Cardinal ) : ShortString
5690: Function CopyRightS( const S : ShortString; First : Cardinal ) : ShortString
5691: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal ) : ShortString
5692: Function CopyFromNthWordS(const S,WordDelims:string;const AWord:String;N:Card;var
SubString:ShortString):Bool;
5693: Function DeleteFromNthWordS(const S,WordDelims:String;AWord:ShortString;N:Card;var
SubStr:ShortString):Bool;
5694: Function CopyFromToWordS(const S,WordDelims,Word1,Word2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5695: Function DeleteFromToWordsS(const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5696: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean ) : ShortString
5697: Function DeleteWithinS( const S, Delimiter : ShortString ) : ShortString
5698: Function ExtractTokensS(const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings):Cardinal
5699: Function IsChAlphaS( C : Char ) : Boolean
5700: Function IsChNumericS( C : Char; const Numbers : ShortString ) : Boolean
5701: Function IsChAlphaNumerics( C : Char; const Numbers : ShortString ) : Boolean
5702: Function IsStrAlphaS( const S : Shortstring ) : Boolean
5703: Function IsStrNumericS( const S, Numbers : ShortString ) : Boolean
5704: Function IsStrAlphaNumericS( const S, Numbers : ShortString ) : Boolean
5705: Function LastWordsS( const S, WordDelims, AWord : ShortString; var Position : Cardinal ) : Boolean
5706: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal ) : Boolean
5707: Function LastStringS( const S, AString : ShortString; var Position : Cardinal ) : Boolean
5708: Function LeftTrimCharsS( const S, Chars : ShortString ) : ShortString
5709: Function KeepCharsS( const S, Chars : ShortString ) : ShortString
5710: Function RepeatStringS(const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5711: Function ReplaceStringS(const S,OldStr,NewStr:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5712: Function ReplaceStringAllS(const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5713: Function ReplaceWordS(const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var
Replacements:Cardinal):ShortString
5714: Function ReplaceWordAllS(const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5715: Function RightTrimCharsS( const S, Chars : ShortString ) : ShortString
5716: Function StrWithinS(const S,SearchStr : ShortString;Start:Cardinal;var Position:Cardinal):boolean
5717: Function TrimCharsS( const S, Chars : ShortString ) : ShortString
5718: Function WordPosS(const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5719: end;
5720:
5721:
5722: *****unit uPSI_StUtils; from Systools4*****
5723: Function SignI( L : LongInt ) : Integer
5724: Function SignF( F : Extended ) : Integer
5725: Function MinWord( A, B : Word ) : Word
5726: Function MidWord( W1, W2, W3 : Word ) : Word
5727: Function MaxWord( A, B : Word ) : Word
5728: Function MinLong( A, B : LongInt ) : LongInt
5729: Function MidLong( L1, L2, L3 : LongInt ) : LongInt
5730: Function MaxLong( A, B : LongInt ) : LongInt
5731: Function MinFloat( F1, F2 : Extended ) : Extended
5732: Function MidFloat( F1, F2, F3 : Extended ) : Extended
5733: Function MaxFloat( F1, F2 : Extended ) : Extended
5734: Function MakeInteger16( H, L : Byte ) : SmallInt

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5735: Function MakeWordS( H, L : Byte ) : Word
5736: Function SwapNibble( B : Byte ) : Byte
5737: Function SwapWord( L : LongInt ) : LongInt
5738: Procedure SetFlag( var Flags : Word; FlagMask : Word )
5739: Procedure ClearFlag( var Flags : Word; FlagMask : Word )
5740: Function FlagIsSet( Flags, FlagMask : Word ) : Boolean
5741: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte )
5742: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte )
5743: Function ByteFlagIsSet( Flags, FlagMask : Byte ) : Boolean
5744: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt )
5745: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt )
5746: Function LongFlagIsSet( Flags, FlagMask : LongInt ) : Boolean
5747: Procedure ExchangeBytes( var I, J : Byte )
5748: Procedure ExchangeWords( var I, J : Word )
5749: Procedure ExchangeLongInts( var I, J : LongInt )
5750: Procedure ExchangeStructs( var I, J, Size : Cardinal )
5751: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word )
5752: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal )
5753: Function AddWordToPtr( P : __Pointer; W : Word ) : __Pointer
5754: //*****unit uPSI_StFIN;*****
5755: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis) : Extended
5756: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
  Par:Extended;Frequency:TStFrequency; Basis: TStBasis) : Extended
5757: Function BondDuration( Settlement,Maturity:TStDate;Rate,
  Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended;
5758: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis):
  Extended
5759: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
  Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5760: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
  Integer; Frequency : TStFrequency; Timing : TStPaymentTime ) : Extended
5761: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis ) : LongInt
5762: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer ) : Extended
5763: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis) : Extended;
5764: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer ) : Extended
5765: Function DollarToDecimalText( DecDollar : Extended ) : string
5766: Function DollarToFraction( DecDollar : Extended; Fraction : Integer ) : Extended
5767: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer ) : string
5768: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended
5769: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
  PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5770: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5771: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5772: Function InterestRateS(NPeriods:Int;Pmt,PV,
  FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5773: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5774: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5775: Function IsCardValid( const S : string ) : Boolean
5776: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
  Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5777: Function ModifiedIRR(const Values:array of Double; FinanceRate,ReinvestRate: Extended) : Extended
5778: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended) : Extended
5779: Function NetPresentValueS( Rate : Extended; const Values : array of Double ) : Extended
5780: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5781: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency ) : Extended
5782: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5783: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5784: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
  : TStPaymentTime ) : Extended
5785: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5786: Function PresentValueS( Rate : Extended; NPeriods : Integer; Pmt, FV : Extended; Frequency : TStFrequency;
  Timing : TStPaymentTime ) : Extended
5787: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5788: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5789: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5790: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5791: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5792: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
  Factor : Extended; NoSwitch : boolean ) : Extended
5793: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5794: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
  Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5795: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5796:
5797: //*****unit unit uPSI_StAstroP;
5798: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5799: //*****unit unit uPSI_StStat; Statistic Package of SysTools*****
5800: Function AveDev( const Data : array of Double ) : Double
5801: Function AveDev16( const Data, NData : Integer ) : Double
5802: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5803: Function Correlation( const Data1, Data2 : array of Double ) : Double
5804: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5805: Function Covariance( const Data1, Data2 : array of Double ) : Double
5806: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5807: Function DevSq( const Data : array of Double ) : Double
5808: Function DevSql6( const Data, NData : Integer ) : Double
5809: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5810: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5811: Function GeometricMeanS( const Data : array of Double ) : Double

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5812: Function GeometricMean16( const Data, NData : Integer) : Double
5813: Function HarmonicMeanS( const Data : array of Double) : Double
5814: Function HarmonicMean16( const Data, NData : Integer) : Double
5815: Function Largest( const Data : array of Double; K : Integer) : Double
5816: Function Largest16( const Data, NData : Integer; K : Integer) : Double
5817: Function MedianS( const Data : array of Double) : Double
5818: Function Median16( const Data, NData : Integer) : Double
5819: Function Mode( const Data : array of Double) : Double
5820: Function Model16( const Data, NData : Integer) : Double
5821: Function Percentile( const Data : array of Double; K : Double) : Double
5822: Function Percentile16( const Data, NData : Integer; K : Double) : Double
5823: Function PercentRank( const Data : array of Double; X : Double) : Double
5824: Function PercentRank16( const Data, NData : Integer; X : Double) : Double
5825: Function Permutations( Number, NumberChosen : Integer) : Extended
5826: Function Combinations( Number, NumberChosen : Integer) : Extended
5827: Function Factorials( N : Integer) : Extended
5828: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean) : Integer
5829: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean) : Integer
5830: Function Smallest( const Data : array of Double; K : Integer) : Double
5831: Function Smallest16( const Data, NData : Integer; K : Integer) : Double
5832: Function TrimMean( const Data : array of Double; Percent : Double) : Double
5833: Function TrimMean16( const Data, NData : Integer; Percent : Double) : Double
5834: AddTypes('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB' + '1 : Double; R2 : Double; sigma :Double; SSr: double; SSe: Double; F0 : Double; df : Integer; end
5835: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool;
5836: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool;
5837: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5838: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5839: Function Intercept( const KnownY : array of Double; const KnownX : array of Double) : Double
5840: Function RSquared( const KnownY : array of Double; const KnownX : array of Double) : Double
5841: Function Slope( const KnownY : array of Double; const KnownX : array of Double) : Double
5842: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double) : Double
5843: Function BetaDist( X, Alpha, Beta, A, B : Single) : Single
5844: Function BetaInv( Probability, Alpha, Beta, A, B : Single) : Single
5845: Function BinomDist( NumbersS, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5846: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single) : Integer
5847: Function ChiDist( X : Single; DegreesFreedom : Integer) : Single
5848: Function ChiInv( Probability : Single; DegreesFreedom : Integer) : Single
5849: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5850: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5851: Function FINv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5852: Function LogNormDist( X, Mean, StandardDev : Single) : Single
5853: Function LogInv( Probability, Mean, StandardDev : Single) : Single
5854: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5855: Function NormInv( Probability, Mean, StandardDev : Single) : Single
5856: Function NormSDist( Z : Single) : Single
5857: Function NormSInv( Probability : Single) : Single
5858: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5859: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5860: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5861: Function Erfc( X : Single) : Single
5862: Function GammaLn( X : Single) : Single
5863: Function LargestSort( const Data : array of Double; K : Integer) : Double
5864: Function LargestSort( const Data : array of double; K : Integer) : Double
5865: Function SmallestSort( const Data : array of double; K : Integer) : Double
5866:
5867: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5868:   Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt) : LongInt
5869:   Function MinimumHeapToUse( RecLen : Cardinal) : LongInt
5870:   Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt) : TMergeInfo
5871:   Function DefaultMergeName( MergeNum : Integer) : string
5872:   Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5873:
5874: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5875: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5876: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5877: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5878: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5879: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5880: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5881: Function LunarPhase( UT : TStDateTimeRec) : Double
5882: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5883: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5884: Function FirstQuarter( D : TStDate) : TStLunarRecord
5885: Function FullMoon( D : TStDate) : TStLunarRecord
5886: Function LastQuarter( D : TStDate) : TStLunarRecord
5887: Function NewMoon( D : TStDate) : TStLunarRecord
5888: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5889: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5890: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5891: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5892: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5893: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5894: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5895: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5896: Function Siderealtime( UT : TStDateTimeRec) : Double
5897: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5898: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec

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5899: Function SEaster( Y, Epoch : Integer ) : TStDate
5900: Function DateToAJD( D : TDateTime ) : Double
5901: Function HoursMin( RA : Double ) : ShortString
5902: Function DegrMin( DC : Double ) : ShortString
5903: Function AJDToDate( D : Double ) : TDateTime
5904:
5905: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5906: Function CurrentDate : TStDate
5907: Function StValidDate( Day, Month, Year, Epoch : Integer ) : Boolean
5908: Function DMYtoStDate( Day, Month, Year, Epoch : Integer ) : TStDate
5909: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer )
5910: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer ) : TStDate
5911: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer ) : TStDate
5912: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer )
5913: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType ) : TStDate
5914: Function WeekofYear( Julian : TStDate ) : Byte
5915: Function AstJulianDate( Julian : TStDate ) : Double
5916: Function AstJulianDateToStDate( AstJulian : Double; Truncate : Boolean ) : TStDate
5917: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime ) : Double
5918: Function StDayOfWeek( Julian : TStDate ) : TStDayType
5919: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer ) : TStDayType
5920: Function StIsLeapYear( Year : Integer ) : Boolean
5921: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer ) : Integer
5922: Function ResolveEpoch( Year, Epoch : Integer ) : Integer
5923: Function ValidTime( Hours, Minutes, Seconds : Integer ) : Boolean
5924: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte )
5925: Function HMSToStTime( Hours, Minutes, Seconds : Byte ) : TStTime
5926: Function CurrentTime : TStTime
5927: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte )
5928: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5929: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5930: Function RoundToNearestHour( T : TStTime; Truncate : Boolean ) : TStTime
5931: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean ) : TStTime
5932: Procedure DateTimeDiff( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt )
5933: Procedure IncDateTime( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt )
5934: Function DateToString( const Picture, DS : string; H, M, S, Epoch : integer ) : Double
5943: Function MonthToString( const Month : Integer ) : string
5944: Function DateStringToStDate( const Picture, S : string; Epoch : Integer ) : TStDate
5945: Function DateStringToDMY( const Picture,S:string;Epoch:Integer; var D, M, Y : Integer ):Boolean
5946: Function StDateToString( const Picture : string; const Julian : TStDate; Pack : Boolean ) : string
5947: Function DayOfWeekToString( const WeekDay : TStDayType ) : string
5948: Function DMYToDateString( const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
5949: Function CurrentDateString( const Picture : string; Pack : Boolean ) : string
5950: Function CurrentTimeString( const Picture : string; Pack : Boolean ) : string
5951: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer ) : Boolean
5952: Function TimeStringToStTime( const Picture, S : string ) : TStTime
5953: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5954: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5955: Function DateStringIsBlank( const Picture, S : string ) : Boolean
5956: Function InternationalDate( ForceCentury : Boolean ) : string
5957: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean ) : string
5958: Function InternationalTime( ShowSeconds : Boolean ) : string
5959: Procedure ResetInternationalInfo
5960:
5961: procedure SIRegister_StBase(CL: TPSPascalCompiler);
5962: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer ) : Boolean
5963: Function AnsiUpperCaseShort32( const S : string ) : string
5964: Function AnsiCompareTextShort32( const S1, S2 : string ) : Integer
5965: Function AnsiCompareStrShort32( const S1, S2 : string ) : Integer
5966: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer ) : Longint
5967: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
5968: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte )
5969: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal )
5970: Function UpCase( C : AnsiChar ) : AnsiChar
5971: Function LoCase( C : AnsiChar ) : AnsiChar
5972: Function CompareLetterSets( Set1, Set2 : Longint ) : Cardinal
5973: Function CompStruct( const S1, S2, Size : Cardinal ) : Integer
5974: Function Search( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5975: Function StSearch( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi ):Boolean
5976: Function SearchUC( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi ):Boolean
5977: Function IsOrInheritsFrom( Root, Candidate : TClass ) : boolean
5978: Procedure RaiseContainerError( Code : longint )
5979: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const )
5980: Function ProductOverflow( A, B : LongInt ) : Boolean
5981: Function StNewStr( S : string ) : PShortString
5982: Procedure StDisposeStr( PS : PShortString )
5983: Procedure VallongInt( S : ShortString; var LI : Longint; var ErrorCode : integer )
5984: Procedure ValSmallInt( const S : ShortString; var SI : smallint; var ErrorCode : integer )
5985: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer )
5986: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt )
5987: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt )

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5988: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string)
5989:
5990: procedure SIRegister_usvd(CL: TPSPPascalCompiler);
5991: begin
5992:   Procedure SV_DecomP( A : TMatrix; Lb, Ubl, Ub2 : Integer; S : TVector; V : TMatrix)
5993:   Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float)
5994:   Procedure SV_Solve(U:TMatrix; S:TVector;V:TMatrix;B:TVector;Lb,Ubl,Ub2:Integer;X:TVector);
5995:   Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ubl, Ub2 : Integer; A : TMatrix)
5996:   Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
5997: end;
5998:
5999: //*****unit unit ; StMath Package of SysTools*****
6000: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
6001: Function PowerS( Base, Exponent : Extended) : Extended
6002: Function StInvCos( X : Double) : Double
6003: Function StInvsin( Y : Double) : Double
6004: Function StInvTan2( X, Y : Double) : Double
6005: Function StTan( A : Double) : Double
6006: Procedure DumpException; //unit StExpEng;
6007: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
6008:
6009: //*****unit unit ; StCRC Package of SysTools*****
6010: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6011: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6012: Function Adler32OfFile( FileName : AnsiString) : LongInt
6013: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6014: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6015: Function Crc16OfFile( FileName : AnsiString) : Cardinal
6016: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6017: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6018: Function Crc32OfFile( FileName : AnsiString) : LongInt
6019: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6020: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6021: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
6022: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6023: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6024: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
6025:
6026: //*****unit unit ; StBCD Package of SysTools*****
6027: Function AddBcd( const B1, B2 : TbcdS) : TbcdS
6028: Function SubBcd( const B1, B2 : TbcdS) : TbcdS
6029: Function MulBcd( const B1, B2 : TbcdS) : TbcdS
6030: Function DivBcd( const B1, B2 : TbcdS) : TbcdS
6031: Function ModBcd( const B1, B2 : TbcdS) : TbcdS
6032: Function NegBcd( const B : TbcdS) : TbcdS
6033: Function AbsBcd( const B : TbcdS) : TbcdS
6034: Function FracBcd( const B : TbcdS) : TbcdS
6035: Function IntBcd( const B : TbcdS) : TbcdS
6036: Function RoundDigitsBcd( const B : TbcdS; Digits : Cardinal) : TbcdS
6037: Function RoundPlacesBcd( const B : TbcdS; Places : Cardinal) : TbcdS
6038: Function ValBcd( const S : string) : TbcdS
6039: Function LongBcd( L : LongInt) : TbcdS
6040: Function ExtBcd( E : Extended) : TbcdS
6041: Function ExpBcd( const B : TbcdS) : TbcdS
6042: Function LnBcd( const B : TbcdS) : TbcdS
6043: Function IntPowBcd( const B : TbcdS; E : LongInt) : TbcdS
6044: Function PowBcd( const B, E : TbcdS) : TbcdS
6045: Function SqrtBcd( const B : TbcdS) : TbcdS
6046: Function CmpBcd( const B1, B2 : TbcdS) : Integer
6047: Function EqDigitsBcd( const B1, B2 : TbcdS; Digits : Cardinal) : Boolean
6048: Function EqPlacesBcd( const B1, B2 : TbcdS; Digits : Cardinal) : Boolean
6049: Function IsIntBcd( const B : TbcdS) : Boolean
6050: Function TruncBcd( const B : TbcdS) : LongInt
6051: Function BcdExt( const B : TbcdS) : Extended
6052: Function RoundBcd( const B : TbcdS) : LongInt
6053: Function StrBcd( const B : TbcdS; Width, Places : Cardinal) : string
6054: Function StrExpBcd( const B : TbcdS; Width : Cardinal) : string
6055: Function FormatBcd( const Format : string; const B : TbcdS) : string
6056: Function StrGeneralBcd( const B : TbcdS) : string
6057: Function FloatFormBcd(const Mask:string;B:TbcdS;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6058: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6059:
6060: //*****unit unit ; StTxtDat; TStTextDataRecordSet Package of SysTools*****
6061: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6062: Function StFieldTypeToStr( FieldType : TStSchemaFieldType) : AnsiString
6063: Function StStrToFieldType( const S : AnsiString) : TStSchemaFieldType
6064: Function StDeEscape( const EscStr : AnsiString) : Char
6065: Function StDoEscape( Delim : Char) : AnsiString
6066: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char) : AnsiString
6067: Function AnsiHashText( const S : string; Size : Integer) : Integer
6068: Function AnsiHashStr( const S : string; Size : Integer) : Integer
6069: Function AnsiELFHashText( const S : string; Size : Integer) : Integer
6070: Function AnsiELFHashStr( const S : string; Size : Integer) : Integer
6071:
6072: //*****unit unit ; StNetCon Package of SysTools*****
6073: with AddClassN('FindClass(''TStComponent''),'TStNetConnection') do begin
6074:   Constructor Create( AOwner : TComponent)
6075:   Function Connect : DWord
6076:   Function Disconnect : DWord

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6077:     RegisterProperty('Password', 'String', iptrw);
6078:     Property('UserName', 'String', iptrw);
6079:     Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6080:     Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6081:     Property('LocalDevice', 'String', iptrw);
6082:     Property('ServerName', 'String', iptrw);
6083:     Property('ShareName', 'String', iptrw);
6084:     Property('OnConnect', 'TNotifyEvent', iptrw);
6085:     Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6086:     Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6087:     Property('OnDisconnect', 'TNotifyEvent', iptrw);
6088:     Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6089:     Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6090:   end;
6091: //***** Thread Functions Context of Win API --- more objects in SyncObjs.pas
6092: // /153 unit uPSI_SyncObjs; unit uPSIParallelJobs;
6093: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection );
6094: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection );
6095: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection );
6096: Function InitializeCriticalSectionAndSpinCount( var
6097:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD ) : BOOL;
6098: Function SetCriticalSectionSpinCount( var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD ) : DWORD;
6099: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL;
6100: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL;
6101: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL;
6102: Function SuspendThread( hThread : THandle ) : DWORD;
6103: Function ResumeThread( hThread : THandle ) : DWORD;
6104: Function CreateThread2( ThreadFunc: TThreadFunction2; thrid: DWord ) : THandle;
6105: Function GetCurrentThread : THandle;
6106: Procedure ExitThread( dwExitCode : DWORD );
6107: Function TerminateThread( hThread : THandle; dwExitCode : DWORD ) : BOOL;
6108: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL;
6109: Procedure EndThread(ExitCode: Integer);
6110: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD;
6111: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC;
6112: Procedure FreeProcInstance( Proc : FARPROC );
6113: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD );
6114: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL;
6115: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6116: Procedure ParallelJob1( ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6117: Procedure ParallelJob2( AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool );
6118: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection:boolean );
6119: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob);
6120: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6121: Function CurrentParallelJobInfo : TParallelJobInfo;
6122: Function ObtainParallelJobInfo : TParallelJobInfo;
6123: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo );
6124: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD ) : BOOL';
6125: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle ) : BOOL';
6126: Function DeviceIoControl( hDevice : THandle; dwIoControlCode : DWORD; lpInBuffer : TObject; nInBufferSize : DWORD; lpOutBuffer: TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped : TOVERLAPPED ) : BOOL';
6127: Function SetFileTime( hFile : THandle; lpCreationTime, lpLastAccessTime, lpLastWriteTime : TFILETIME ) : BOOL';
6128: Function DuplicateHandle( hSourceProcessHandle, hSourceHandle, hTargetProcessHandle : THandle; lpTargetHandle : THandle; dwDesiredAccess : DWORD; bInheritHandle : BOOL; dwOptions : DWORD ) : BOOL';
6129: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD ) : BOOL';
6130: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD ) : BOOL';
6131:
6132: *****unit uPSI_JclMime;
6133: Function MimeEncodeString( const S : AnsiString ) : AnsiString;
6134: Function MimeDecodeString( const S : AnsiString ) : AnsiString;
6135: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream );
6136: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream );
6137: Function MimeEncodedSize( const I : Cardinal ) : Cardinal;
6138: Function MimeDecodedSize( const I : Cardinal ) : Cardinal;
6139: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer );
6140: Function MimeDecode( var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6141: Function MimeDecodePartial( var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : Cardinal;
6142: Function MimeDecodePartialEnd( var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card ) : Cardinal;
6143:
6144: *****unit uPSI_JclPrint;
6145: Procedure DirectPrint( const Printer, Data : string );
6146: Procedure SetPrinterPixelsPerInch;
6147: Function GetPrinterResolution : TPoint;
6148: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer;
6149: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect );
6150:
6151:
6152: *****unit uPSI_ShLwApi;*****
6153: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar;
6154: Function StrChri( lpStart : PChar; wMatch : WORD ) : PChar;
6155: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer;
6156: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer;
6157: Function StrCSpn( lpStr_ , lpSet : PChar ) : Integer;
6158: Function StrCSpnI( lpStr1, lpSet : PChar ) : Integer;

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6159: Function StrDup( lpSrch : PChar ) : PChar
6160: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar
6161: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar
6162: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6163: Function StrIsIntlEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6164: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6165: Function StrPBrk( psz, pszSet : PChar ) : PChar
6166: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6167: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6168: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar
6169: Function StrSpn( psz, pszSet : PChar ) : Integer
6170: Function StrStr( lpFirst, lpSrch : PChar ) : PChar
6171: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar
6172: Function StrToInt( lpSrch : PChar ) : Integer
6173: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL
6174: Function StrTrim( psz : PChar; pszTrimChars : PChar ) : BOOL
6175: Function ChrCmpI( wl, w2 : WORD ) : BOOL
6176: Function ChrCmpIA( wl, w2 : WORD ) : BOOL
6177: Function ChrCmpIW( wl, w2 : WORD ) : BOOL
6178: Function StrIntEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6179: Function StrIntEqNI( s1, s2 : PChar; nChar : Integer ) : BOOL
6180: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer ) : PChar
6181: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6182: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6183: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6184: SZ_CONTENTTYPE_HTMLA', 'String 'text/html'
6185: SZ_CONTENTTYPE_HTMLW', 'String 'text/html'
6186: SZ_CONTENTTYPE_HTML', 'string SZ_CONTENTTYPE_HTMLA';
6187: SZ_CONTENTTYPE_CDFA', 'String 'application/x-cdf'
6188: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf'
6189: SZ_CONTENTTYPE_CDF', 'string SZ_CONTENTTYPE_CDFA';
6190: Function PathIsHTMLFile( pszPath : PChar ) : BOOL
6191: STIF_DEFAULT', 'LongWord( $00000000);
6192: STIF_SUPPORT_HEX', 'LongWord( $00000001);
6193: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6194: Function StrNcpy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6195: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6196: Function PathAddBackslash( pszPath : PChar ) : PChar
6197: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6198: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL
6199: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6200: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6201: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6202: Function PathCompactPath( hdc : HDC; pszPath : PChar; dx : UINT ) : BOOL
6203: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6204: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6205: Function PathFileExists( pszPath : PChar ) : BOOL
6206: Function PathFindExtension( pszPath : PChar ) : PChar
6207: Function PathFindFileName( pszPath : PChar ) : PChar
6208: Function PathFindNextComponent( pszPath : PChar ) : PChar
6209: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6210: Function PathGetArgs( pszPath : PChar ) : PChar
6211: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6212: Function PathIsLFNfileSpec( lpName : PChar ) : BOOL
6213: Function PathGetCharType( ch : Char ) : UINT
6214: GCT_INVALID', 'LongWord( $0000);
6215: GCT_LFNCHAR', 'LongWord( $0001);
6216: GCT_SHORTCHAR', 'LongWord( $0002);
6217: GCT_WILD', 'LongWord( $0004);
6218: GCT_SEPARATOR', 'LongWord( $0008);
6219: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6220: Function PathIsDirectory( pszPath : PChar ) : BOOL
6221: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6222: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6223: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6224: Function PathIsRelative( pszPath : PChar ) : BOOL
6225: Function PathIsRoot( pszPath : PChar ) : BOOL
6226: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6227: Function PathIsUNC( pszPath : PChar ) : BOOL
6228: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6229: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6230: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6231: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6232: Function PathIsURL( pszPath : PChar ) : BOOL
6233: Function PathMakePretty( pszPath : PChar ) : BOOL
6234: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6235: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6236: Procedure PathQuoteSpaces( lpsz : PChar )
6237: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6238: Procedure PathRemoveArgs( pszPath : PChar )
6239: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6240: Procedure PathRemoveBlanks( pszPath : PChar )
6241: Procedure PathRemoveExtension( pszPath : PChar )
6242: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6243: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6244: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6245: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6246: Function PathSkipRoot( pszPath : PChar ) : PChar
6247: Procedure PathStripPath( pszPath : PChar )

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6248: Function PathStripToRoot( pszPath : PChar ) : BOOL
6249: Procedure PathUnquoteSpaces( lpsz : PChar )
6250: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6251: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6252: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD ) : BOOL
6253: Procedure PathUndecorate( pszPath : PChar )
6254: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6255: URL_SCHEME_INVALID', 'LongInt'( - 1);
6256: URL_SCHEME_UNKNOWN', 'LongInt'( 0 );
6257: URL_SCHEME_FTP', 'LongInt'( 1 );
6258: URL_SCHEME_HTTP', 'LongInt'( 2 );
6259: URL_SCHEME_GOPHER', 'LongInt'( 3 );
6260: URL_SCHEME_MAILTO', 'LongInt'( 4 );
6261: URL_SCHEME_NEWS', 'LongInt'( 5 );
6262: URL_SCHEME_NNTP', 'LongInt'( 6 );
6263: URL_SCHEME_TELNET', 'LongInt'( 7 );
6264: URL_SCHEME_WAIS', 'LongInt'( 8 );
6265: URL_SCHEME_FILE', 'LongInt'( 9 );
6266: URL_SCHEME_MK', 'LongInt'( 10 );
6267: URL_SCHEME_HTTPS', 'LongInt'( 11 );
6268: URL_SCHEME_SHELL', 'LongInt'( 12 );
6269: URL_SCHEME_SNEWS', 'LongInt'( 13 );
6270: URL_SCHEME_LOCAL', 'LongInt'( 14 );
6271: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15 );
6272: URL_SCHEME_VBSCRIPT', 'LongInt'( 16 );
6273: URL_SCHEME_ABOUT', 'LongInt'( 17 );
6274: URL_SCHEME_RES', 'LongInt'( 18 );
6275: URL_SCHEME_MAXVALUE', 'LongInt'( 19 );
6276: URL_SCHEME', 'Integer
6277: URL_PART_NONE', 'LongInt'( 0 );
6278: URL_PART_SCHEME', 'LongInt'( 1 );
6279: URL_PART_HOSTNAME', 'LongInt'( 2 );
6280: URL_PART_USERNAME', 'LongInt'( 3 );
6281: URL_PART_PASSWORD', 'LongInt'( 4 );
6282: URL_PART_PORT', 'LongInt'( 5 );
6283: URL_PART_QUERY', 'LongInt'( 6 );
6284: URL_PART', 'DWORD
6285: URLIS_URL', 'LongInt'( 0 );
6286: URLIS_OPAQUE', 'LongInt'( 1 );
6287: URLIS_NOHISTORY', 'LongInt'( 2 );
6288: URLIS_FILEURL', 'LongInt'( 3 );
6289: URLIS_APPLICABLE', 'LongInt'( 4 );
6290: URLIS_DIRECTORY', 'LongInt'( 5 );
6291: URLIS_HASQUERY', 'LongInt'( 6 );
6292: TUrlis', 'DWORD
6293: URL_UNESCAPE', 'LongWord( $10000000 );
6294: URL_ESCAPE_UNSAFE', 'LongWord( $20000000 );
6295: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000 );
6296: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6297: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000 );
6298: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000 );
6299: URL_DONT_SIMPLIFY', 'LongWord( $08000000 );
6300: URL_NO_META', 'longword( URL_DONT_SIMPLIFY );
6301: URL_UNESCAPE_INPLACE', 'LongWord( $00100000 );
6302: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000 );
6303: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000 );
6304: URL_INTERNAL_PATH', 'LongWord( $00800000 );
6305: URL_FILE_USE_PATHURL', 'LongWord( $00010000 );
6306: URL_ESCAPE_PERCENT', 'LongWord( $00001000 );
6307: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000 );
6308: URL_PARTFLAG_KEEPSCHEME', 'LongWord( $00000001 );
6309: URL_APPLY_DEFAULT', 'LongWord( $00000001 );
6310: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002 );
6311: URL_APPLY_GUESSFILE', 'LongWord( $00000004 );
6312: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008 );
6313: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL ) : Integer
6314: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6315: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6316: Function UrlIsOpaque( pszURL : PChar ) : BOOL
6317: Function UrlIsNoHistory( pszURL : PChar ) : BOOL
6318: Function UrlIsFileUrl( pszURL : PChar ) : BOOL
6319: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs ) : BOOL
6320: Function UrlGetLocation( psz1 : PChar ) : PChar
6321: Function UrlUnescape( pszUrl, pszUnescaped : PChar; pcchUnescaped:DWORD; dwFlags : DWORD ) : HRESULT
6322: Function UrlEscape(pszUrl: PChar; pszEscaped: PChar; pcchEscaped:DWORD; dwFlags : DWORD) : HRESULT
6323: Function UrlCreateFromPath(pszPath:PChar; pszUrl: PChar; pcchUrl: DWORD; dwFlags : DWORD) : HRESULT
6324: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD) : HRESULT
6325: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6326: Function UrlGetPart(pszIn: PChar; pszOut: PChar; pcchOut: DWORD; dwPart,dwFlags: DWORD) : HRESULT
6327: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD ) : HRESULT
6328: Function HashData( pbData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6329: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD ) : HRESULT
6330: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD ) : HRESULT
6331: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6332: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6333: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar ) : DWORD
6334: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD ) : Longint
6335: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : Pointer; pcbData : DWORD ) : Longint

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6336: Function SHQueryInfoKey(hKey:HKEY;pcSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6337: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD ) : DWORD
6338: Function SHRegGetPath(hKey:HKEY; ppszSubKey,ppszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6339: Function SHRegSetPath( hKey:HKEY; ppszSubKey, ppszValue, ppszPath : PChar; dwFlags : DWORD): DWORD
6340: SHREGDEL_DEFAULT', 'LongWord( $00000000);
6341: SHREGDEL_HKCU', 'LongWord( $00000001);
6342: SHREGDEL_HKLM', 'LongWord( $00000010);
6343: SHREGDEL_BOTH', 'LongWord( $00000011);
6344: SHREGENUM_DEFAULT', 'LongWord( $00000000);
6345: SHREGENUM_HKCU', 'LongWord( $00000001);
6346: SHREGENUM_HKLM', 'LongWord( $00000010);
6347: SHREGENUM_BOTH', 'LongWord( $00000011);
6348: SHREGSET_HKCU', 'LongWord( $00000001);
6349: SHREGSET_FORCE_HKCU', 'LongWord( $00000002);
6350: SHREGSET_HKLM', 'LongWord( $00000004);
6351: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6352: TSHRegDelFlags', 'DWORD
6353: TSHRegEnumFlags', 'DWORD
6354: HUSKEY', 'THandle
6355: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6356: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6357: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6358: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6359: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6360: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6361: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6362: ASSOCF_VERIFY', 'LongWord( $00000040);
6363: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6364: ASSOCF_NOFIXUPS', 'LongWord( $00000000);
6365: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6366: ASSOCF', 'DWORD
6367: ASSOCSTR_COMMAND', 'LongInt'( 1 );
6368: ASSOCSTR_EXECUTABLE', 'LongInt'( 2 );
6369: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3 );
6370: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4 );
6371: ASSOCSTR_NOOPEN', 'LongInt'( 5 );
6372: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6 );
6373: ASSOCSTR_DDECOMMAND', 'LongInt'( 7 );
6374: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8 );
6375: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9 );
6376: ASSOCSTR_DDETOPIC', 'LongInt'( 10 );
6377: ASSOCSTR_INFOTIP', 'LongInt'( 11 );
6378: ASSOCSTR_MAX', 'LongInt'( 12 );
6379: ASSOCSTR', 'DWORD
6380: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1 );
6381: ASSOCKEY_APP', 'LongInt'( 2 );
6382: ASSOCKEY_CLASS', 'LongInt'( 3 );
6383: ASSOCKEY_BASECLASS', 'LongInt'( 4 );
6384: ASSOCKEY_MAX', 'LongInt'( 5 );
6385: ASSOCKEY', 'DWORD
6386: ASSOCDATA_MSIDESCRIPTOR', 'LongInt'( 1 );
6387: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2 );
6388: ASSOCDATA_QUERYCLASSSTORE', 'LongInt'( 3 );
6389: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4 );
6390: ASSOCDATA_MAX', 'LongInt'( 5 );
6391: ASSOCDATA', 'DWORD
6392: ASSOCENUM_NONE', 'LongInt'( 0 );
6393: ASSOCENUM', 'DWORD
6394: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6395: SHACF_DEFAULT $00000000;
6396: SHACF_FILESYSTEM', 'LongWord( $00000001);
6397: SHACF_URLHISTORY', 'LongWord( $00000002);
6398: SHACF_URLMRU', 'LongWord( $00000004);
6399: SHACF_USETAB', 'LongWord( $00000008);
6400: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6401: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6402: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6403: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6404: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD ( $80000000 ) );
6405: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6406: Procedure SHSetThreadRef( punk : IUnknown )
6407: Procedure SHGetThreadRef( out ppunk : IUnknown )
6408: CTF_INSIST', 'LongWord( $00000001);
6409: CTF_THREAD_REF', 'LongWord( $00000002);
6410: CTF_PROCESS_REF', 'LongWord( $00000004);
6411: CTF_COINIT', 'LongWord( $00000008);
6412: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6413: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6414: Function ColorHLSToRGB( wHue, wLuminance, wSaturation : WORD ) : TColorRef
6415: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6416: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6417: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6418: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6419: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6420: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6421: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6422: Function SetRectEmpty( var lprc : TRect ) : BOOL
6423: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6424: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL

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6425: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6426: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6427:
6428: Function InitializeFlatSB( hWnd : HWND ) : Bool
6429: Procedure UninitializeFlatSB( hWnd : HWND )
6430: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6431: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6432: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6433: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6434: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6435: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6436: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6437:
6438:
6439: // **** 204 unit uPSI_ShellAPI;
6440: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6441: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6442: Procedure DragFinish( Drop : HDROP )
6443: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6444: Function ShellExecute( hWnd:HWND;Operation,FileName,Parameters,Directory:PChar>ShowCmd:Integer ):HINST
6445: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6446: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6447: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6448: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6449: Function ExtractIcon( hInst : HINST; lpszExefileName : PChar; nIconIndex : UINT ) : HICON
6450: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6451: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6452: Function ExtractIconEx(lpszFile:PChar;nIconIndex:Int;var phiconLarge,phiconSmall:HICON;nIcons:UINT):UINT;
6453: Procedure SHFreeNameMappings( hNameMappings : THandle )
6454:
6455: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001 );
6456: DLLVER_PLATFORM_NT', 'LongWord( $00000002 );
6457: DLLVER_MAJOR_MASK', 'LongWord( Int64( $FFFF000000000000 ) );
6458: DLLVER_MINOR_MASK', 'LongWord( Int64( $0000FFFF00000000 ) );
6459: DLLVER_BUILD_MASK', 'LongWord( Int64( $00000000FFFF0000 ) );
6460: DLLVER_QFE_MASK', 'LongWord( Int64( $00000000000FFF ) );
6461: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6462: Function SimpleXMLEncode( const S : string ) : string
6463: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6464: Function XMLEncode( const S : string ) : string
6465: Function XMLDecode( const S : string ) : string
6466: Function EntityEncode( const S : string ) : string
6467: Function EntityDecode( const S : string ) : string
6468:
6469: procedure RIRegister_CPort_Routines(S: TPSEexec);
6470: Procedure EnumComPorts( Ports : TStrings )
6471: Procedure ListComPorts( Ports : TStrings )
6472: Procedure ComPorts( Ports : TStrings ) //Alias to Arduino
6473: Function GetComPorts: TStringlist;
6474: Function StrToBaudRate( Str : string ) : TBaudRate
6475: Function StrToStopBits( Str : string ) : TStopBits
6476: Function StrToDataBits( Str : string ) : TDataBits
6477: Function StrToParity( Str : string ) : TParityBits
6478: Function StrToFlowControl( Str : string ) : TFlowControl
6479: Function BaudRateToStr( BaudRate : TBaudRate ) : string
6480: Function StopBitsToStr( StopBits : TStopBits ) : string
6481: Function DataBitsToStr( DataBits : TDataBits ) : string
6482: Function ParityToStr( Parity : TParityBits ) : string
6483: Function FlowControlToStr( FlowControl : TFlowControl ) : string
6484: Function ComErrorsToStr( Errors : TComErrors ) : String
6485:
6486: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
6487: Function DispatchMessage( const lpMsg : TMsg ) : Longint
6488: Function TranslateMessage( const lpMsg : TMsg ) : BOOL
6489: Function SetMessageQueue( cMessagesMax : Integer ) : BOOL
6490: Function PeekMessage( var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT ):BOOL
6491: Function GetMessagePos : DWORD
6492: Function GetMessageTime : Longint
6493: Function GetMessageExtraInfo : Longint
6494: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean ) : string
6495: Procedure JAddToRecentDocs( const Filename : string )
6496: Procedure ClearRecentDocs
6497: Function ExtractIconFromFile( FileName : string; Index : Integer ) : HICON
6498: Function CreateShellLink( const AppName, Desc : string; Dest : string ) : string
6499: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo )
6500: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo )
6501: Function RecycleFile( FileToRecycle : string ) : Boolean
6502: Function JCopyFile( FromFile, ToDir : string ) : Boolean
6503: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType ) : UInt
6504: Function ShellObjectTypeConstToEnum( ShellObjectType : UInt ) : TShellObjectType
6505: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : Boolean
6506: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : Boolean
6507: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : Boolean
6508: Function EnumServicesStatusExA(hSCManager: SC_HANDLE; InfoLevel: SC_ENUM_TYPE; dwServiceType: DWORD; dwServiceState: DWORD;lpServices:LPBYTE;cbBufSize:DWORD;var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD;pszGroupName: LP

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6509: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD;
6510: dwServiceState : DWORD; lpServices:LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,
6511: lpResumeHandle:DWORD; pszGroupName
6512: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD;
6513: dwServiceState : DWORD;lpServices : LPBYTE;cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,
6514: lpResumeHandle:DWORD; pszGroupName
6515: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR ) : BOOL
6516: ***** unit uPSI_JclPeImage;
6517: Function IsValidPeFile( const FileName : TFileName ) : Boolean
6518: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders ) : Boolean
6519: Function PeCreateNameHintTable( const FileName : TFileName ) : Boolean
6520: Function PeRebaseImage(const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6521: Function PeVerifyCheckSum( const FileName : TFileName ) : Boolean
6522: Function PeClearCheckSum( const FileName : TFileName ) : Boolean
6523: Function PeUpdateCheckSum( const FileName : TFileName ) : Boolean
6524: Function PeDoesExportFunction(const FileName:TFileName;const FuncName:string;Options:TJclSmartCompOptions):Bool;
6525: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6526: Function PeIsExportFunctionForwarded(const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6527: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions ) : Boolean
6528: Function PeDoesImportLibrary(const FileName:TFileName;const LibraryName:string;Recursive:Boolean):Boolean;
6529: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean ) : Boolean
6530: Function PeImportedFunctions(const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string;IncludeLibNames : Boolean): Boolean
6531: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6532: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6533: Function PeResourceKindNames(const FileN:TFileName;ResourceType:TJclPeResourceKind;const NamesList:TStrings):Bool
6534: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6535: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6536: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6537: Function PeCreateRequiredImportList(const FileName: TFileName; RequiredImportsList: TStrings): Boolean;
6538: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6539: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6540: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6541: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) : PImageSectionHeader
6542: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6543: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6544: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):Pointer;
6545: SIRegister_TJclPeSectionStream(CL);
6546: SIRegister_TJclPeMapImgHookItem(CL);
6547: SIRegister_TJclPeMapImgHooks(CL);
6548: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer;var NtHeaders:TImageNtHeaders):Boolean
6549: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6550: Type TJclBorUmSymbolKind', '(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6551: TJclBorUmSymbolModifier', '( smQualified, smLinkProc )
6552: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6553: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6554: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6555: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6556: Function PeBorUnmangleName( const Name : string; var Unmangled : string; var Description : TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6557: Function PeBorUmangleName1(const Name:string;var Unmangled:string;var Description:TJclBorUmDescription):TJclBorUmResult;
6558: Function PeBorUmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6559: Function PeBorUmangleName3( const Name : string ) : string;
6560: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6561: Function PeUmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6562:
6563:
6564: **** SysTools uPSI_StSystem; ****
6565: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6566: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6567: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6568: //Procedure EnumerateDirectories(const StartDir:AnsiStr;FL:TStrings;SubDirs:Bool,IncludeItem:TIncludeItemFunc);
6569: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
6570: IncludeItem:TIncludeItemFunc);
6571: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6572: Function FileMatchesMask( const FileName, FileMask : AnsiString ) : Boolean
6573: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6574: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6575: Function FlushOsBuffers( Handle : Integer ) : Boolean
6576: Function GetCurrentUser : AnsiString
6577: Function GetDiskClass( Drive : Char ) : DiskClass

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6577: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector,
  SectorsPerCluster:Cardinal):Bool;
6578: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var
  DiskSize:Double):Bool;
6579: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var
  DiskSize:Comp):Boolean;
6580:   { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6581: Function getDiskSpace2(const path: String; index: integer): int64;
6582: Function GetFileCreateDate( const FileName : AnsiString ) : TDateTime
6583: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime
6584: Function GetFileLastModify( const FileName : AnsiString ) : TDateTime
6585: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6586: Function GetLongPath( const APath : AnsiString ) : AnsiString
6587: Function GetMachineName : AnsiString
6588: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6589: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString
6590: Function GetShortPath( const APath : AnsiString ) : AnsiString
6591: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString
6592: Function GetTempFolder( aForceSlash : boolean ) : AnsiString
6593: Function StGetWindowsFolder( aForceSlash : boolean ) : AnsiString
6594: Function GetWorkingFolder( aForceSlash : boolean ) : AnsiString
6595: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6596: Function StIsDirectory( const DirName : AnsiString ) : Boolean
6597: Function IsDirectoryEmpty( const S : AnsiString ) : Integer
6598: Function IsDriveReady( Drive : Char ) : Boolean
6599: Function IsFile( const FileName : AnsiString ) : Boolean
6600: Function IsFileArchive( const S : AnsiString ) : Integer
6601: Function IsFileHidden( const S : AnsiString ) : Integer
6602: Function IsFileReadOnly( const S : AnsiString ) : Integer
6603: Function IsFileSystem( const S : AnsiString ) : Integer
6604: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6605: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char ) : Cardinal
6606: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean
6607: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6608: Procedure SplitPath( const APath : AnsiString; Parts : TStrings )
6609: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6610: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint
6611: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec
6612: Function ValidDrive( Drive : Char ) : Boolean
6613: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6614:
6615: //*****unit uPSI_JclLANMan;*****
6616: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6617: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6618: Function DeleteAccount( const Servername, Username : string ) : Boolean
6619: Function DeleteLocalAccount( Username : string ) : Boolean
6620: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6621: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6622: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6623: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6624: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6625: Function LocalGroupExists( const Group : string ) : Boolean
6626: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6627: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6628: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6629: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6630: Function IsLocalAccount( const AccountName : string ) : Boolean
6631: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6632: Function GetRandomString( NumChar : cardinal ) : string
6633:
6634: //*****unit uPSI_cUtils;*****
6635: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )'
6636: Function cIsWinNT : boolean
6637: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,
  Multitasking:Boolean)
6638: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6639: Function cRunAndGetOutput(Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
  CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean) : string
6640: Function cGetShortName( FileName : string ) : string
6641: Procedure cShowError( Msg : String )
6642: Function cCommaStrToStr( s : string; formatstr : string ) : string
6643: Function cIncludeQuoteIfSpaces( s : string ) : string
6644: Function cIncludeQuoteIfNeeded( s : string ) : string
6645: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6646: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6647: Function cBuildFilter( var value : string; const FLTStyle : TFLTSET ) : boolean;
6648: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6649: Function cCodeInstoStr( s : string ) : string
6650: Function cStrtoCodeIns( s : string ) : string
6651: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6652: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6653: Procedure cStrtoPoint( var pt : TPoint; value : string )
6654: Function cPointtoStr( const pt : TPoint ) : string
6655: Function cListtoStr( const List : TStrings ) : string
6656: Function ListtoStr( const List : TString ) : string
6657: Procedure StrtoList( s : string; const List : TStrings; const delimiter : char )
6658: Procedure cStrtoList( s : string; const List : TStrings; const delimiter : char )

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6659: Function cGetFileType( const FileName : string ) : TUnitType
6660: Function cGetExTyp( const FileName : string ) : TExUnitType
6661: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6662: Function cExpandFileto( const FileName : string; const BasePath : string ) : string
6663: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6664: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6665: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6666: Function cGenMakePath( FileName : String ) : String
6667: Function cGenMakePath2( FileName : String ) : String
6668: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean ) : String;
6669: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6670: Function cCalcMod( Count : Integer ) : Integer
6671: Function cGetString( FileName : string ) : string
6672: Function cCheckChangeDir( var Dir : string ) : boolean
6673: Function cGetAssociatedProgram( const Extension:string; var Filename,Description: string ):boolean
6674: Function cIsNumeric( s : string ) : boolean
6675: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6676: Function AttrToStr( const Attr : TSynHighlighterAttributes ) : string
6677: Function GetfileTyp( const FileName : string ) : TUnitType
6678: Function Atoi(const aStr: string): integer
6679: Function Itoa(const aint: integer): string
6680: Function Atof(const aStr: string): double';
6681: Function Atol(const aStr: string): longint';
6682:
6683:
6684: procedure SIRegister_cHTTPUtils(CL: TPSPascalCompiler);
6685: begin
6686:   FindClass('TOBJECT'), 'EHTTP
6687:   FindClass('TOBJECT'), 'EHTTPParser
6688:   //AnsiCharSet', 'set of AnsiChar
6689:   AnsiStringArray', 'array of AnsiString
6690:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6691:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6692:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'
6693:   +'TTPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6694:   +'CustomMinVersion : Integer; end
6695:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6696:   +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6697:   +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6698:   +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6699:   +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6700:   +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6701:   +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6702:   +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6703:   +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6704:   +'nection, hntOrigin, hntKeepAlive )
6705:   THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6706:   THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6707:   +' AnsiString; end
6708: //THTTPCustomHeader', '^THTTPCustomHeader // will not work
6709: THTTPContentLengthEnum', '( hcNone, hc1ByteCount )'
6710: THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6711: //THTTPContentLength', '^THTTPContentLength // will not work
6712: THTTPContentTypeMajor', '( hctmCustom, hctmText, hctmImage )'
6713: THTTPContentTypeEnum', '( hcNone, hctCustomParts, hctCustomStri'
6714:   +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6715:   +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6716:   +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScript, hctAppli'
6717:   +'cationCustom, hctAudioCustom, hctVideoCustom )'
6718: THTTPContentType', 'record Value : THTTPContentTypeEnum; CustomM'
6719:   +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6720:   +'CustomStr : AnsiString; end
6721: THTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )'
6722: THTTPDateField', 'record Value : THTTPDatefieldEnum; DayOfWeek :'
6723:   +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6724:   +' Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6725:   +'String; DateTime : DateTime; Custom : AnsiString; end
6726: THTTPTransferEncodingEnum', '( hteNone, hteCustom, htechunked )'
6727: THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnu'
6728:   +'m; Custom : AnsiString; end
6729: THTTPConnectionFieldEnum', '( hcfNone, hcfCustom, hcfClose, hcfKeepAlive )'
6730: THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6731:   +' Custom : AnsiString; end
6732: THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )'
6733: THTTPAgeField', 'record Value: THTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6734: THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )'
6735: THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6736:   +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )'
6737: THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6738:   +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6739:   +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )'
6740: THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end
6741: THTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6742:   +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )'
6743: THTTPContentEncoding', 'record Value:THTTPContentEncodingEnum;Custom:AnsiString; end;
6744: THTTPContentEncodingFieldEnum', '( hcefNone, hcefList )'
6745: THTTPContentEncodingField', 'record Value : THTTPContentEncoding'
6746:   +'FieldEnum; List : array of THTTPContentEncoding; end
6747: THTTPRetryAfterFieldEnum', '( hrafNone, hrafCustom, harfDate, harfSeconds )'

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6748: THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum;' +
6749:   +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6750: THTTPContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )'
6751: THTTPContentRangeField', 'record Value : THTTPContentRangeField;' +
6752:   +'num: ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6753: THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )'
6754: THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6755: THTTPSetCookieCustomFieldArray', 'array of THTTPSetCookieCustomField'
6756: THTTPSetCookieField', 'record Value : THTTPSetCookieFieldEnum; D' +
6757:   +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : ' +
6758:   +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSetCookie'
6759:   +'CustomFieldArray; Custom : AnsiString; end
6760: //THTTPSetCookieField', '^THTTPSetCookieField // will not work
6761: THTTPSetCookieFieldArray', 'array of THTTPSetCookieField
6762: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )'
6763: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6764: //THTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6765: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6766: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries' +
6767:   +' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6768: THTTPCommonHeaders', 'record TransferEncoding : THTTPTransferEnc' +
6769:   +'oding; ContentType : THTTPContentType; ContentLength : THTTPContentLength;' +
6770:   +' Connection : THTTPConnectionField; ProxyConnection : THTTPConnectionField' +
6771:   +' ; Date : THTTPDateField; ContentEncoding : THTTPContentEncodingField; end
6772: THTTPCustomHeaders', 'array of THTTPCustomHeader
6773: //THTTPFixedHeaders', 'array[THTTPHeaderNameEnum] of AnsiString
6774: THTTPFixedHeaders', 'array[0..42] of AnsiString
6775:   THTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC' +
6776:   +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )'
6777: THTTPMethod', 'record Value : THTTPMethodEnum; Custom : AnsiString; end
6778: THTTPRequestStartLine', 'record Method : THTTPMethod; URI : AnsiString; Version : THTTPVersion; end
6779: THTTPRequestHeader', 'record CommonHeaders : THTTPCommonHeaders;' +
6780:   +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo' +
6781:   +'kie : THTTPCookieField; IfModifiedSince : THTTPDateField; IfUnmodifiedSince : THTTPDateField; end
6782: //THTTPRequestHeader', '^THTTPRequestHeader // will not work
6783: THTTPRequest', 'record StartLine : THTTPRequestStartLine; Header' +
6784:   +' : THTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6785: THTTPResponseStartLineMessage', '( hsrmNone, hsrmCustom, hsrmOK )'
6786: THTTPResponseStartLine', 'record Version : THTTPVersion; Code : ' +
6787:   +'Integer; Msg : THTTPResponseStartLineMessage; CustomMsg : AnsiString; end
6788: THTTPResponseHeader', 'record CommonHeaders : THTTPCommonHeaders' +
6789:   +' FixedHeaders : THTTPFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co' +
6790:   +'okies : THTTPSetCookieFieldArray; Expires : THTTPDateField; LastModified : ' +
6791:   +' THTTPDateField; Age : THTTPAgeField; end
6792: //THTTPResponseHeader', '^THTTPResponseHeader // will not work
6793: THTTPResponse', 'record StartLine : THTTPResponseStartLine; Head' +
6794:   +' ; er : THTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6795: Function HTTPMessageHasContent( const H : THTTPCommonHeaders ) : Boolean
6796: Procedure InitHTTPRequest( var A : THTTPRequest )
6797: Procedure InitHTTPResponse( var A : THTTPResponse )
6798: Procedure ClearHTTPVersion( var A : THTTPVersion )
6799: Procedure ClearHTTPContentLength( var A : THTTPContentLength )
6800: Procedure ClearHTTPContentType( var A : THTTPContentType )
6801: Procedure ClearHTTPDateField( var A : THTTPDateField )
6802: Procedure ClearHTTPTransferEncoding( var A : THTTPTransferEncoding )
6803: Procedure ClearHTTPConnectionField( var A : THTTPConnectionField )
6804: Procedure ClearHTTPAgeField( var A : THTTPAgeField )
6805: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding )
6806: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField )
6807: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField )
6808: Procedure ClearHTTPSetCookieField( var A : THTTPSetCookieField )
6809: Procedure ClearHTTPCommonHeaders( var A : THTTPCommonHeaders )
6810: //Procedure ClearHTTPFixedHeaders( var A : THTTPFixedHeaders )
6811: Procedure ClearHTTPCustomHeaders( var A : THTTPCustomHeaders )
6812: Procedure ClearHTTPCookieField( var A : THTTPCookieField )
6813: Procedure ClearHTTPMethod( var A : THTTPMethod )
6814: Procedure ClearHTTPRequestStartLine( var A : THTTPRequestStartLine )
6815: Procedure ClearHTTPRequestHeader( var A : THTTPRequestHeader )
6816: Procedure ClearHTTPRequest( var A : THTTPRequest )
6817: Procedure ClearHTTPResponseStartLine( var A : THTTPResponseStartLine )
6818: Procedure ClearHTTPResponseHeader( var A : THTTPResponseHeader )
6819: Procedure ClearHTTPResponse( var A : THTTPResponse )
6820: THTTPStringOption', '( hsoNone )'
6821: THTTPStringOptions', 'set of THTTPStringOption
6822: FindClass('TOBJECT'), 'TansiStringBuilder
6823:
6824: Procedure BuildStrHTTPVersion( const A : THTTPVersion; const B : TAnsiStringBuilder; P : THTTPStringOptions );
6825: Procedure BuildStrHTTPContentLengthValue( const
6826:   A : THTTPContentLength; B : TAnsiStringBuilder; P : THTTPStringOptions )
6827: Procedure BuildStrHTTPContentLength( const A : THTTPContentLength;
6828:   B : TAnsiStringBuilder; P : THTTPStringOptions )
6829: Procedure BuildStrHTTPContentTypeValue( const A : THTTPContentType; B : TAnsiStringBuilder; const
6830:   P : THTTPStringOptions )
6831: Procedure BuildStrHTTPContentType( const A : THTTPContType; const B : TAnsiStringBuilder; const
6832:   P : THTTPStringOptions )
6833: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
6834:   B : TAnsiStringBuilder; const P : THTTPStringOptions )
6835: Procedure BuildStrHTTPDateFieldValue( const A : THTTPDateField; const B : TAnsiStringBuilder; const P : THTTPStringOptions )

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6831: Procedure BuildStrHTTPDateField(const A:THTTPDateField;const B:TAnsiStringBuilder;const
6832: P:THTTPStringOptions);
6833: Procedure BuildStrHTTPPTransferEncodingValue( const A : THTTPTransferEncoding; const B :
6834: TAnsiStringBuilder; const P : THTTPStringOptions)
6835: Procedure BuildStrHTTPPTransferEncoding( const A : THTTPTransferEncoding; const B : TAnsiStringBuilder;
6836: const P : THTTPStringOptions)
6837: Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TAnsiStringBuilder;
6838: const P : THTTPStringOptions)
6839: Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
6840: const P : THTTPStringOptions)
6841: Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
6842: const P : THTTPStringOptions)
6843: Procedure BuildStrHTTPPageField(const A:THTTPPageField;const B:TAnsiStringBuilder;const
6844: P:THTTPStringOptions);
6845: Procedure BuildStrHTTPContentEncoding( const A : THTTPContentEncoding; const B : TAnsiStringBuilder;
6846: const P : THTTPStringOptions)
6847: Procedure BuildStrHTTPContentEncodingField(const A:THTTPContentEncodingField;const
6848: B:TAnsiStringBuilder;const P:THTTPStringOptions)
6849: Procedure BuildStrHTTPProxyConnectionField(const A : THTTPProxyConnectionField; const B : TAnsiStringBuilder;
6850: const P : THTTPStringOptions)
6851: Procedure BuildStrHTTPCommonHeaders( const A : THTTPCommonHeaders; const B : TAnsiStringBuilder; const P
6852: : THTTPStringOptions)
6853: Procedure BuildStrHTTPFixedHeaders(const A:THTTPFixedHeaders;const B:TAnsiStrBuilder;const
6854: P:THTTPStringOptions)
6855: Procedure BuildStrHTTPCustomHeaders( const A : THTTPCustomHeaders; const B : TAnsiStringBuilder; const P
6856: : THTTPStringOptions)
6857: Procedure BuildStrHTTPSetCookieFieldValue( const A : THTTPSetCookieField; const B : TAnsiStringBuilder;
6858: const P : THTTPStringOptions)
6859: Procedure BuildStrHTTPCookieFieldValue( const A : THTTPCookieField; const B : TAnsiStringBuilder; const P
6860: : THTTPStringOptions)
6861: Procedure BuildStrHTTPCookieField(const A:THTTPCookieField;const B:TAnsiStrBuilder;const
6862: P:THTTPStringOptions);
6863: Function HTTPContentTypeToStr( const A : THTTPContentType ) : AnsiString
6864: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField ) : AnsiString
6865: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField ) : AnsiString
6866: Function HTTPMethodToStr( const A : THTTPMethod ) : AnsiString
6867: Function HTTPRequestToStr( const A : THTTPRequest ) : AnsiString
6868: Function HTTPResponseToStr( const A : THTTPResponse ) : AnsiString
6869: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const
6870: Domain:AnsiString;const Secure:Bool; THTTPParserHeaderParseFunc', 'Function ( const HeaderName : THTT'
6871: +PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6872: SIRegister_THTTPParser(CL);
6873: FindClass('TOBJECT'), 'THTTPContentDecoder
6874: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder )
6875: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6876: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6877: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6878: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String )
6879: SIRegister_THTTPContentDecoder(CL);
6880: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6881: FindClass('TOBJECT'), 'THTTPContentReader
6882: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader )
6883: THTTPContentReaderLogEvent', 'Procedure ( const Sender : THTTPContentReader; const LogMsg : String; const
6884: LogLevel : Int;
6885: SIRegister_THTTPContentReader(CL);
6886: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6887: FindClass('TOBJECT'), 'THTTPContentWriter
6888: THTTPContentWriterLogEvent', 'Procedure ( const Sender : THTTPContentWriter; const LogMsg : AnsiString );
6889: SIRegister_THTTPContentWriter(CL);
6890: Procedure SelfTestcHTTPUtils
6891: end;
6892: (*-----*)
6893: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6894: begin
6895: 'TLSLibraryVersion', 'String '1.00
6896: 'TLSerror_None', 'LongInt'( 0 );
6897: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6898: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6899: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6900: 'TLSerror_InvalidState', 'LongInt'( 4 );
6901: 'TLSerror_DecodeError', 'LongInt'( 5 );
6902: 'TLSerror_BadProtocol', 'LongInt'( 6 );

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6894: Function TLSErrorMessage( const TLSerror : Integer ) : String
6895:   SIRegister_ETLSError(CL);
6896:   TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6897:   TTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6898: Procedure InitTLSProtocolVersion30( var A : TTLSProtocolVersion)
6899: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion)
6900: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion)
6901: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion)
6902: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6903: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6904: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6905: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6906: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6907: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6908: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6909: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6910: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6911: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6912: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6913: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion ) : String
6914: Function TLSProtocolVersionName( const A : TTLSProtocolVersion ) : String
6915:   'PTLSSRandom', '^PTLSSRandom // will not work
6916: Procedure InitTLSRandom( var Random : TTLSRandom )
6917: Function TLSRandomToStr( const Random : TTLSRandom ) : AnsiString
6918: 'TLSSESSIONIDMaxLen','LongInt'( 32 );
6919: Procedure InitTLSSessionID( var SessionID : TTLSSessionID; const A : AnsiString )
6920: Function EncodetTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TTLSSessionID):Int;
6921: Function DecodetTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TTLSSessionID):Int;
6922: TTLSSignatureAndHashAlgorithm', 'record Hash : TTLSHashAlgorithm'
6923:   +'; Signature : TTLSSignatureAlgorithm; end
6924: // TTLSSignatureAndHashAlgorithm', '^TTLSSignatureAndHashAlgorithm +'// will not work
6925: TTLSSignatureAndHashAlgorithmArray', 'array of TTLSSignatureAndHashAlgorithm
6926: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE '
6927:   +'DSS, tlskeadHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6928: TTLSMACAlgorithm', '( tlsmNone, tlsmNULL, tlsm HMAC_MD5, tlsm'
6929:   +'HMAC_SHA1, tlsm HMAC_SHA256, tlsm HMAC_SHA384, tlsm HMAC_SHA512 )
6930: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6931:   +'nteger; Supported : Boolean; end
6932: PTLSMacAlgorithmInfo', '^PTLSMacAlgorithmInfo // will not work
6933: 'TLS_MAC_MAXDIGESTSIZE','LongInt'( 64 );
6934: TTLSPRFAlgorithm', '( tlspaSHA256 )
6935: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6936: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6937: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6938: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6939: Function tlsp10PRF( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6940: Function tlsp12PRF_SHA256( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6941: Function tlsp12PRF_SHA512( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6942: Function TLSRF( const ProtoVersion:TTLSProtocolVersion;const Secret,ALLabel,Seed:AString;const
Size:Int):AString;
6943: Function tlsp10KeyBlock( const MasterSecret, ServerRandom, ClientRandom:AnsiString; const
Size:Integer):AnsiString
6944: Function tlsp12SHA256KeyBlock( const MasterSecret, ServerRandom, ClientRandom: AnsiString;const
Size:Int):AnsiString;
6945: Function tlsp12SHA512KeyBlock( const MasterSecret, ServerRandom, ClientRandom: AnsiString;const
Size:Int):AnsiString;
6946: Function TLSKeyBlock( const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6947: Function tlsp10MasterSecret( const PreMasterSecret, ClientRandom, ServerRandom:AnsiString ) :AnsiString;
6948: Function tlsp12SHA256MasterSecret( const PreMasterSecret, ClientRandom, ServerRandom:AnsiString ):AnsiString;
6949: Function tlsp12SHA512MasterSecret( const PreMasterSecret, ClientRandom, ServerRandom:AnsiString ) :AnsiString;
6950: Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret, ClientRandom,
ServerRandom:AnsiString ) : AnsiString
6951:   'TLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr
6952:   +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6953:   +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6954: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys )
6955: Procedure GenerateFinalTLSKeys( const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys )
6956: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1 );
6957: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024 );
6958: Procedure SelfTestcTLSUtils
6959: end;
6960:
6961: (*-----*)
6962: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6963: begin
6964:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
6965: // pBoard', '^tBoard // will not work
6966: Function rCalculateData( cc : byte; cx, cy : integer ) : sPosData
6967: Function rCheckMove( color : byte; cx, cy : integer ) : integer
6968: //Function rDoStep( data : pBoard ) : word
6969: Function winExecAndWait( const sAppPath : string; wVisible : word ) : boolean
6970: end;
6971:
6972: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6973: begin

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6974: Function InEditMode( ADataSet : TDataSet ) : Boolean
6975: Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
6976: Function CheckDataSource1(ADataSource:const AFieldName:string;var VField:TField):boolean;
6977: Function GetFieldText( AField : TField ) : String
6978: end;
6979:
6980: procedure SIRegister_SortGrid(CL: TPPascalCompiler);
6981: begin
6982:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6983:   TMyPrintRange', '( prAll, prSelected )
6984:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6985:     +'ded, ssDateTime, ssTime, ssCustom )
6986:   TSortDirection', '( sdAscending, sdDescending )
6987:   TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
6988:   TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integ'
6989:     +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6990:   TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6991:   TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
6992:   SIRegister_TSortOptions(CL);
6993:   SIRegister_TPrintOptions(CL);
6994:   TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
6995:   SIRegister_TSortedList(CL);
6996:   TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
6997:   TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
6998:   TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
6999:   TFormOptions', 'record Brush : TBrush; Font : TFont; Alignment'
7000:     +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
7001:   SIRegister_TFontSetting(CL);
7002:   SIRegister_TFontlist(CL);
7003:   AddTypeS(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row : '
7004:     + integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
7005:   TSetFilterEvent', 'Procedure ( ARows : TStringList; var Accept : Boolean)
7006:   TSearchEvent', 'Procedure ( ARows : TStringList; var Accept : Boolean)
7007:   TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
7008:   TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
7009:   TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
7010:   TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
7011:   TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer'
7012:     +'r; var SortStyle : TSORTStyle)
7013:   TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow : '
7014:     +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
7015:   SIRegister_TSORTGrid(CL);
7016:   Function ExtendedCompare( const Str1, Str2 : String ) : Integer
7017:   Function NormalCompare( const Str1, Str2 : String ) : Integer
7018:   Function DateTimeCompare( const Str1, Str2 : String ) : Integer
7019:   Function NumericCompare( const Str1, Str2 : String ) : Integer
7020:   Function TimeCompare( const Str1, Str2 : String ) : Integer
7021: //Function Compare( Item1, Item2 : Pointer ) : Integer
7022: end;
7023:
7024: ***** procedure Register_IB(CL: TPPascalCompiler);
7025: Procedure IBAlloc( var P, OldSize, NewSize : Integer)
7026: Procedure IBEError( ErrMess : TIBClientError; const Args : array of const)
7027: Procedure IBD DataBaseError
7028: Function StatusVector : PISC_STATUS
7029: Function StatusVectorArray : PStatusVector
7030: Function CheckStatusVector( ErrorCodes : array of ISC_STATUS ) : Boolean
7031: Function StatusVectorAsText : string
7032: Procedure SetIB DataBaseErrorMessages( Value : TIB DataBaseErrorMessages)
7033: Function GetIB DataBaseErrorMessages : TIB DataBaseErrorMessages
7034:
7035:
7036: //*****unit uPSI_BoldUtils;*****
7037: Function CharCount( c : char; const s : string ) : integer
7038: Function BoldNamesEqual( const name1, name2 : string ) : Boolean
7039: Procedure BoldAppendToStrings(strings: TStringList; const aString: string; const ForceNewLine:Boolean)
7040: Function BoldSeparateStringlist(strings:TStringList;const Separator,PreString,PostString:String):String
7041: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string ) : string
7042: Function BoldTrim( const S : string ) : string
7043: Function BoldIsPrefix( const S, Prefix : string ) : Boolean
7044: Function BoldStrEqual( P1, P2 : PChar; Len : integer ) : Boolean
7045: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer ) : Boolean
7046: Function BoldAnsiEqual( const S1, S2 : string ) : Boolean
7047: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer ) : Boolean
7048: Function BoldCaseIndependentPos( const Substr, S : string ) : Integer
7049: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStringList)
7050: Function CapitalisedToSpaced( Capitalised : String ) : String
7051: Function SpacedToCapitalised( Spaced : String ) : String
7052: Function BooleanToString( BoolValue : Boolean ) : String
7053: Function StringToBoolean( StrValue : String ) : Boolean
7054: Function GetUpperLimitForMultiplicity( const Multiplicity : String ) : Integer
7055: Function GetLowerLimitForMultiplicity( const Multiplicity : String ) : Integer
7056: Function StringListToVarArray( List : TStringList ) : variant
7057: Function IsLocalMachine( const Machinename : WideString ) : Boolean
7058: Function GetComputerNameStr : string
7059: Function TimeStampComp( const Time1, Time2 : TTimeStamp ) : Integer
7060: Function BoldStrToDateFmt(const S:string;const DateFormat:string;const DateSeparatorChar:char):TDateTime
7061: Function BoldDateToStrFmt(const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char):String;
7062: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;

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7063: Function BoldParseFormattedDate(const value:String;const formats:array of string; var
7064: Date:TDateTime):Boolean;
7065: Procedure EnsureTrailing( var Str : String; ch : char)
7066: Function BoldDirectoryExists( const Name : string) : Boolean
7067: Function BoldForceDirectories( Dir : string) : Boolean
7068: Function BoldRootRegistryKey : string
7069: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7070: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings) : Integer
7071: Function LogicalAnd( A, B : Integer) : Boolean
7072: record TByHandleFileInformation dwFileAttributes : DWORD;
7073:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7074:   +' : TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSize'
7075:   +'Low : DWORD; nNumberOfLinks : DWORD; nFileIndexHigh : DWORD; nFileIndexLow : DWORD; end
7076: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7077: Function IsFirstInstance : Boolean
7078: Procedure ActivateFirst( AString : PChar)
7079: Procedure ActivateFirstCommandLine
7080: function MakeAckPkt(const BlockNumber: Word): string;
7081: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string);
7082: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7083: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7084: function IdStrToWord(const Value: string): Word;
7085: function IdWordToStr(const Value: Word): WordStr;
7086: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet) : Boolean
7087: Function CPUFeatures : TCPUFeatures
7088:
7089: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7090: begin
7091:   AddTypes('TXRTLBitIndex', 'Integer'
7092:   Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex) : Cardinal
7093:   Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex) : Boolean
7094:   Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7095:   Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7096:   Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex) : Cardinal
7097:   Function XRTLSwapHiLo16( X : Word) : Word
7098:   Function XRTLSwapHiLo32( X : Cardinal) : Cardinal
7099:   Function XRTLSwapHiLo64( X : Int64) : Int64
7100:   Function XRTLROL32( A, S : Cardinal) : Cardinal
7101:   Function XTRLROL32( A, S : Cardinal) : Cardinal
7102:   Function XRTLROL16( A : Word; S : Cardinal) : Word
7103:   Function XTRLROL16( A : Word; S : Cardinal) : Word
7104:   Function XRTLROL8( A : Byte; S : Cardinal) : Byte
7105:   Function XTRLROL8( A : Byte; S : Cardinal) : Byte
7106: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7107: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7108: Procedure XRTLUMul64( const A, B : Integer; var Mull, MulH : Integer)
7109: Function XRTLPopulation( A : Cardinal) : Cardinal
7110: end;
7111:
7112: Function XRTLURLDecode( const ASrc : WideString) : WideString
7113: Function XRTLURLEncode( const ASrc : WideString) : WideString
7114: Function XRTLURINormalize( const AURI : WideString) : WideString
7115: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
7116: VPassword : WideString)
7117: Function XRTLExtractLongPathName(APath: string): string;
7118: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7119: begin
7120:   AddTypes('Int8', 'ShortInt
7121:   AddTypes('Int16', 'SmallInt
7122:   AddTypes('Int32', 'LongInt
7123:   AddTypes('UInt8', 'Byte
7124:   AddTypes('UInt16', 'Word
7125:   AddTypes('UInt32', 'LongWord
7126:   AddTypes('UInt64', 'Int64
7127:   AddTypes('Word8', 'UInt8
7128:   AddTypes('Word16', 'UInt16
7129:   AddTypes('Word32', 'UInt32
7130:   AddTypes('Word64', 'UInt64
7131:   AddTypes('LargeInt', 'Int64
7132:   AddTypes('NativeInt', 'Integer
7133:   AddTypeS('NativeUInt', 'Cardinal
7134:   Const('BitsPerByte','LongInt'( 8);
7135:   Const('BitsPerWord','LongInt'( 16);
7136:   Const('BitsPerLongWord','LongInt'( 32);
7137: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8);
7138: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8);
7139: Function MinI( const A, B : Integer) : Integer
7140: Function MaxI( const A, B : Integer) : Integer
7141: Function MinC( const A, B : Cardinal) : Cardinal
7142: Function MaxC( const A, B : Cardinal) : Cardinal
7143: Function SumClipI( const A, I : Integer) : Integer
7144: Function SumClipC( const A : Cardinal; const I : Integer) : Cardinal
7145: Function InByteRange( const A : Int64) : Boolean
7146: Function InWordRange( const A : Int64) : Boolean
7147: Function InLongWordRange( const A : Int64) : Boolean
7148: Function InShortIntRange( const A : Int64) : Boolean
7149: Function InSmallIntRange( const A : Int64) : Boolean

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7150: Function InLongIntRange( const A : Int64 ) : Boolean
7151: AddTypeS('Bool8', 'ByteBool
7152: AddTypeS('Bool16', 'WordBool
7153: AddTypes('Bool32', 'LongBool
7154: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7155: AddTypeS('TCompareResultSet', 'set of TCompareResult
7156: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7157: Const('MinSingle','Single').setExtended( 1.5E-45 );
7158: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7159: Const('MinDouble','Double').setExtended( 5.0E-324 );
7160: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7161: Const('MinExtended','Extended').setExtended(3.4E-4932);
7162: Const('MaxExtended','Extended').setExtended(1.1E+4932);
7163: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807 );
7164: Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807 );
7165: Function MinF( const A, B : Float ) : Float
7166: Function MaxF( const A, B : Float ) : Float
7167: Function ClipF( const Value : Float; const Low, High : Float ) : Float
7168: Function InSingleRange( const A : Float ) : Boolean
7169: Function InDoubleRange( const A : Float ) : Boolean
7170: Function InCurrencyRange( const A : Float ) : Boolean;
7171: Function InCurrencyRangel( const A : Int64 ) : Boolean;
7172: Function FloatExponentBase2( const A : Extended; var Exponent : Integer ) : Boolean
7173: Function FloatExponentBase10( const A : Extended; var Exponent : Integer ) : Boolean
7174: Function FloatIsInfinity( const A : Extended ) : Boolean
7175: Function FloatIsNaN( const A : Extended ) : Boolean
7176: Const('SingleCompareDelta','Extended').setExtended( 1.0E-34 );
7177: Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280 );
7178: Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400 );
7179: Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34 );
7180: Function FloatZero( const A : Float; const CompareDelta : Float ) : Boolean
7181: Function FloatOne( const A : Float; const CompareDelta : Float ) : Boolean
7182: Function FloatsEqual( const A, B : Float; const CompareDelta : Float ) : Boolean
7183: Function FloatsCompare( const A, B : Float; const CompareDelta : Float ) : TCompareResult
7184: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5 );
7185: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13 );
7186: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17 );
7187: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10 );
7188: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double ) : Boolean
7189: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double ) : TCompareResult
7190: Function cClearBit( const Value, BitIndex : LongWord ) : LongWord
7191: Function cSetBit( const Value, BitIndex : LongWord ) : LongWord
7192: Function cIsBitSet( const Value, BitIndex : LongWord ) : Boolean
7193: Function cToggleBit( const Value, BitIndex : LongWord ) : LongWord
7194: Function cIsHighBitSet( const Value : LongWord ) : Boolean
7195: Function SetBitScanForward( const Value : LongWord ) : Integer;
7196: Function SetBitScanForward1( const Value, BitIndex : LongWord ) : Integer;
7197: Function SetBitScanReverse( const Value : LongWord ) : Integer;
7198: Function SetBitScanReverse1( const Value, BitIndex : LongWord ) : Integer;
7199: Function ClearBitScanForward( const Value : LongWord ) : Integer;
7200: Function ClearBitScanForward1( const Value, BitIndex : LongWord ) : Integer;
7201: Function ClearBitScanReverse( const Value : LongWord ) : Integer;
7202: Function ClearBitScanReverse1( const Value, BitIndex : LongWord ) : Integer;
7203: Function cReverseBits( const Value : LongWord ) : LongWord;
7204: Function cReverseBts1( const Value : LongWord; const BitCount : Integer ) : LongWord;
7205: Function cSwapEndian( const Value : LongWord ) : LongWord
7206: Function cTwosComplement( const Value : LongWord ) : LongWord
7207: Function RotateLeftBits16( const Value : Word; const Bits : Byte ) : Word
7208: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte ) : LongWord
7209: Function RotateRightBits16( const Value : Word; const Bits : Byte ) : Word
7210: Function RotateRightBits32( const Value : LongWord; const Bits : Byte ) : LongWord
7211: Function cBitCount( const Value : LongWord ) : LongWord
7212: Function cIsPowerOfTwo( const Value : LongWord ) : Boolean
7213: Function LowBitMask( const HighBitIndex : LongWord ) : LongWord
7214: Function HighBitMask( const LowBitIndex : LongWord ) : LongWord
7215: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord ) : LongWord
7216: Function SetBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord ) : LongWord
7217: Function ClearBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord ) : LongWord
7218: Function ToggleBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord ) : LongWord
7219: Function IsBitRangeSet( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord ) : Boolean
7220: Function IsBitRangeClear( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord ) : Boolean
7221: // AddTypeS('CharSet', 'set of AnsiChar
7222: AddTypeS('CharSet', 'set of Char' //!!!
7223: AddTypes('AnsiCharSet', 'TCharSet
7224: AddTypeS('ByteSet', 'set of Byte
7225: AddTypeS('AnsiChar', 'Char
7226: // Function AsCharSet( const C : array of AnsiChar ) : CharSet
7227: Function AsByteSet( const C : array of Byte ) : ByteSet
7228: Procedure ComplementChar( var C : CharSet; const Ch : Char )
7229: Procedure ClearCharSet( var C : CharSet )
7230: Procedure FillCharSet( var C : CharSet )
7231: Procedure ComplementCharSet( var C : CharSet )
7232: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet )
7233: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet )
7234: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet )
7235: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet )
7236: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet )
7237: Function IsSubSet( const A, B : CharSet ) : Boolean
7238: Function IsEqual( const A, B : CharSet ) : Boolean

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7239: Function IsEmpty( const C : CharSet ) : Boolean
7240: Function IsComplete( const C : CharSet ) : Boolean
7241: Function cCharCount( const C : CharSet ) : Integer
7242: Procedure ConvertCaseInsensitive( var C : CharSet )
7243: Function CaseInsensitiveCharSet( const C : CharSet ) : CharSet
7244: Function IntRangeLength( const Low, High : Integer ) : Int64
7245: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer ) : Boolean
7246: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer ) : Boolean
7247: Function IntRangeHasElement( const Low, High, Element : Integer ) : Boolean
7248: Function IntRangeIncludeElement( var Low, High : Integer; const Element : Integer ) : Boolean
7249: Function IntRangeIncludeElementRange(var Low,High:Integer;const LowElement,HighElement:Integer):Boolean
7250: Function CardRangeLength( const Low, High : Cardinal ) : Int64
7251: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal ) : Boolean
7252: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal ) : Boolean
7253: Function CardRangeHasElement( const Low, High, Element : Cardinal ) : Boolean
7254: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal ) : Boolean
7255: Function CardRangeIncludeElementRange(var Low,High:Card;const LowElement,HighElement:Card):Boolean;
7256: AddTypeS('UnicodeChar', 'WideChar'
7257: Function Compare( const I1, I2 : Boolean ) : TCompareResult;
7258: Function Compare( const I1, I2 : Integer ) : TCompareResult;
7259: Function Compare2( const I1, I2 : Int64 ) : TCompareResult;
7260: Function Compare3( const I1, I2 : Extended ) : TCompareResult;
7261: Function CompareA( const I1, I2 : AnsiString ) : TCompareResult
7262: Function CompareW( const I1, I2 : WideString ) : TCompareResult
7263: Function cSgn( const A : LongInt ) : Integer;
7264: Function cSgn1( const A : Int64 ) : Integer;
7265: Function cSgn2( const A : Extended ) : Integer;
7266: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )'
7267: Function AnsiCharToInt( const A : AnsiChar ) : Integer
7268: Function WideCharToInt( const A : WideChar ) : Integer
7269: Function CharToInt( const A : Char ) : Integer
7270: Function IntToAnsiChar( const A : Integer ) : AnsiChar
7271: Function IntToWideChar( const A : Integer ) : WideChar
7272: Function IntToChar( const A : Integer ) : Char
7273: Function IsHexAnsiChar( const Ch : AnsiChar ) : Boolean
7274: Function IsHexWideChar( const Ch : WideChar ) : Boolean
7275: Function IsHexChar( const Ch : Char ) : Boolean
7276: Function HexAnsiCharToInt( const A : AnsiChar ) : Integer
7277: Function HexWideCharToInt( const A : WideChar ) : Integer
7278: Function HexCharToInt( const A : Char ) : Integer
7279: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar
7280: Function IntToUpperHexWideChar( const A : Integer ) : WideString
7281: Function IntToUpperHexChar( const A : Integer ) : Char
7282: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar
7283: Function IntToLowerHexWideChar( const A : Integer ) : WideString
7284: Function IntToLowerHexChar( const A : Integer ) : Char
7285: Function IntToStringA( const A : Int64 ) : AnsiString
7286: Function IntToStringW( const A : Int64 ) : WideString
7287: Function IntToString( const A : Int64 ) : String
7288: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7289: Function UIntToStringW( const A : NativeUInt ) : WideString
7290: Function UIntToString( const A : NativeUInt ) : String
7291: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7292: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7293: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7294: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7295: Function LongWordToHexA(const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString;
7296: Function LongWordToHexW(const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString;
7297: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7298: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7299: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7300: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7301: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7302: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7303: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7304: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7305: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7306: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7307: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7308: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7309: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7310: Function StringToInt64A( const S : AnsiString ) : Int64
7311: Function StringToInt64W( const S : WideString ) : Int64
7312: Function StringToInt64( const S : String ) : Int64
7313: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7314: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7315: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7316: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7317: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7318: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7319: Function StringToIntA( const S : AnsiString ) : Integer
7320: Function StringToIntW( const S : WideString ) : Integer
7321: Function StringToInt( const S : String ) : Integer
7322: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7323: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7324: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7325: Function StringToLongWordA( const S : AnsiString ) : LongWord
7326: Function StringToLongWordW( const S : WideString ) : LongWord
7327: Function StringToLongWord( const S : String ) : LongWord

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7328: Function HexToIntA( const S : AnsiString ) : NativeUInt
7329: Function HexToIntW( const S : WideString ) : NativeUInt
7330: Function HexToInt( const S : String ) : NativeUInt
7331: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7332: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7333: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7334: Function HexToLongWordA( const S : AnsiString ) : LongWord
7335: Function HexToLongWordW( const S : WideString ) : LongWord
7336: Function HexToLongWord( const S : String ) : LongWord
7337: Function TryOctoToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7338: Function TryOctoToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7339: Function TryOctoToLongWord( const S : String; out A : LongWord ) : Boolean
7340: Function OctoToLongWordA( const S : AnsiString ) : LongWord
7341: Function OctoToLongWordW( const S : WideString ) : LongWord
7342: Function OctoToLongWord( const S : String ) : LongWord
7343: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7344: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7345: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7346: Function BinToLongWordA( const S : AnsiString ) : LongWord
7347: Function BinToLongWordW( const S : WideString ) : LongWord
7348: Function BinToLongWord( const S : String ) : LongWord
7349: Function FloatToStringA( const A : Extended ) : AnsiString
7350: Function FloatToStringW( const A : Extended ) : WideString
7351: Function FloatToString( const A : Extended ) : String
7352: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7353: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7354: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7355: Function StringToFloatA( const A : AnsiString ) : Extended
7356: Function StringToFloatW( const A : WideString ) : Extended
7357: Function StringToFloat( const A : String ) : Extended
7358: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7359: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7360: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7361: Function EncodeBase64( const S:Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const PadChar: AnsiChar ) : AnsiString
7362: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7363: unit uPSI_cfFundamentUtils;
7364: Const('b64_MIMEBase64','Str').String('ABCDEFHIGHJKLNMOPQRSTUVWXYZZabcdeghi jklmnopqrstuvwxyz0123456789+/-_');
7365: Const('b64_UUEncode','String').String('!'#$%&'')*+,-./0123456789:@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_';
7366: Const('b64_XXEncode','String').String('+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz');
7367: Const('CCHARSET','Stringb64_XXEncode');
7368: Const('CHEXSET','String'0123456789ABCDEF
7369: Const('HEXDIGITS','String'0123456789ABCDEF
7370: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7371: Const('DIGISET','String'0123456789
7372: Const('LETTERSET','String'ABCDEFHIGHJKLNMOPQRSTUVWXYZ'
7373: Const('DIGISET2','TCharset').SetSet('0123456789'
7374: Const('LETTERSET2','TCharset').SetSet('ABCDEFHIGHJKLNMOPQRSTUVWXYZ'
7375: Const('HEXSET2','TCharset').SetSET('0123456789ABCDEF');
7376: Const('NUMBERSET','TCharset').SetSet('0123456789');
7377: Const('NUMBERS','String'0123456789');
7378: Const('LETTERS','String'ABCDEFHIGHJKLNMOPQRSTUVWXYZ');
7379: Function CharSetToStr( const C : CharSet ) : AnsiString
7380: Function StrToCharSet( const S : AnsiString ) : CharSet
7381: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7382: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7383: Function UUDecode( const S : AnsiString ) : AnsiString
7384: Function XXDecode( const S : AnsiString ) : AnsiString
7385: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7386: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7387: Function InterfaceToStrW( const I : IInterface ) : WideString
7388: Function InterfaceToStr( const I : IInterface ) : String
7389: Function ObjectClassName( const O : TObject ) : String
7390: Function ClassClassName( const C : TClass ) : String
7391: Function ObjectToStr( const O : TObject ) : String
7392: Function ObjectToString( const O : TObject ) : String
7393: Function CharSetToStr( const C : CharSet ) : AnsiString
7394: Function StrToCharSet( const S : AnsiString ) : CharSet
7395: Function HashStrA(const S : AnsiString; const Index : Integer; const Count: Integer;const AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7396: Function HashStrW(const S:WideString;const Index:Integer;const Count:Integer;const AsciiCaseSensitive: Boolean; const Slots:LongWord) : LongWord
7397: Function HashStr(const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord) : LongWord
7398: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7399: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7400: Const('Bytes1KB','LongInt'( 1024 );
7401: SIRegister_IInterface(CL);
7402: Procedure SelfTestCFundamentUtils
7403:
7404: Function CreateSchedule : IJclSchedule
7405: Function NullStamp : TTimeStamp
7406: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7407: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7408: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7409:
7410: procedure SIRegister_uwinplot(CL: TPSPascalCompiler);
7411: begin
7412: AddTypeS('TFunc', 'function(X : Float) : Float;

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7413: Function InitGraphics( Width, Height : Integer ) : Boolean
7414: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean)
7415: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
7416: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
7417: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float)
7418: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float)
7419: Procedure SetGraphTitle( Title : String)
7420: Procedure SetOxTitle( Title : String)
7421: Procedure SetOyTitle( Title : String)
7422: Function GetGraphTitle : String
7423: Function GetOxTitle : String
7424: Function GetOyTitle : String
7425: Procedure PlotOxAxis( Canvas : TCanvas)
7426: Procedure PlotOyAxis( Canvas : TCanvas)
7427: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7428: Procedure WriteGraphTitle( Canvas : TCanvas)
7429: Function SetMaxCurv( NCurv : Byte) : Boolean
7430: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7431: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7432: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7433: Procedure SetCurvStep( CurvIndex, Step : Integer)
7434: Function GetMaxCurv : Byte
7435: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7436: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7437: Function GetCurvLegend( CurvIndex : Integer) : String
7438: Function GetCurvStep( CurvIndex : Integer) : Integer
7439: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7440: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7441: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7442: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7443: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7444: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7445: Function Xpixel( X : Float) : Integer
7446: Function Ypixel( Y : Float) : Integer
7447: Function Xuser( X : Integer) : Float
7448: Function Yuser( Y : Integer) : Float
7449: end;
7450:
7451: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7452: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7453: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7454: Procedure FFT_Integer_Cleanup
7455: Procedure CalcFrequency(NumSamples,FrequencyIndex: Integer;InArray: TCompVector;var FT : Complex)
7456: //unit uPSI_JclStreams;
7457: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin) : Int64
7458: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer) : Int64
7459: Function CompareStreams( A, B : TStream; BufferSize : Integer) : Boolean
7460: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer) : Boolean
7461:
7462: procedure SIRegister_FmxUtils(CL: TPSPPascalCompiler);
7463: begin
7464:   FindClass('TOBJECT','EInvalidDest
7465:   FindClass('TOBJECT','EFCantMove
7466:   Procedure fmxCopyFile( const FileName, DestName : string)
7467:   Procedure fmxMoveFile( const FileName, DestName : string)
7468:   Function fmxGetFileSize( const FileName : string) : LongInt
7469:   Function fmxFileDateTime( const FileName : string) : TDateTime
7470:   Function fmxHasAttr( const FileName : string; Attr : Word) : Boolean
7471:   Function fmxExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7472: end;
7473:
7474: procedure SIRegister_FindFileIter(CL: TPSPPascalCompiler);
7475: begin
7476:   SIRegister_IFindFileIterator(CL);
7477:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7478: end;
7479:
7480: procedure SIRegister_PCharUtils(CL: TPSPPascalCompiler);
7481: begin
7482:   Function SkipWhite( cp : PChar) : PChar
7483:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7484:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7485:   Function ReadIdent( cp : PChar; var ident : string) : PChar
7486: end;
7487:
7488: procedure SIRegister_JclStrHashMap(CL: TPSPPascalCompiler);
7489: begin
7490:   SIRegister_TStringHashMapTraits(CL);
7491:   Function CaseSensitiveTraits : TStringHashMapTraits
7492:   Function CaseInsensitiveTraits : TStringHashMapTraits
7493:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod
7494:     +'e; Right : PHashNode; end
7495:   //PHashArray', 'THashArray // will not work
7496:   SIRegister_TStringHashMap(CL);
7497:   THashValue', 'Cardinal
7498:   Function StrHash( const s : string) : THashValue
7499:   Function TextHash( const s : string) : THashValue
7500:   Function DataHash( var AValue, ASize : Cardinal) : THashValue
7501:   Function Iterate_FreeObjects( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean

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7502: Function Iterate_Dispose( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7503: Function Iterate_FreeMem( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7504: SIRegister_TCaseSensitiveTraits(CL);
7505: SIRegister_TCaseInsensitiveTraits(CL);
7506:
7507:
7508: //*****unit uPSI_umath;
7509: Function uExpo( X : Float) : Float
7510: Function uExp2( X : Float) : Float
7511: Function uExp10( X : Float) : Float
7512: Function uLog( X : Float) : Float
7513: Function uLog2( X : Float) : Float
7514: Function uLog10( X : Float) : Float
7515: Function uLogA( X, A : Float) : Float
7516: Function uIntPower( X : Float; N : Integer): Float
7517: Function uPower( X, Y : Float) : Float
7518: Function SgnGamma( X : Float) : Integer
7519: Function Stirling( X : Float) : Float
7520: Function StirLog( X : Float) : Float
7521: Function Gamma( X : Float) : Float
7522: Function LnGamma( X : Float) : Float
7523: Function DiGamma( X : Float) : Float
7524: Function TriGamma( X : Float) : Float
7525: Function IGamma( X : Float) : Float
7526: Function JGamma( X : Float) : Float
7527: Function InvGamma( X : Float) : Float
7528: Function Erf( X : Float) : Float
7529: Function Erfc( X : Float) : Float
7530: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
{ Correlation coefficient between samples X and Y }
7532: function DBeta(A, B, X : Float) : Float;
{ Density of Beta distribution with parameters A and B }
7534: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7535: Function Beta(X, Y : Float) : Float
7536: Function Binomial( N, K : Integer) : Float
7537: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7538: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7539: Procedure LU_Decompo( A : TMatrix; Lb, Ub : Integer)
7540: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7541: Function DNorm( X : Float) : Float
7542:
7543: function DGamma(A, B, X : Float) : Float;
{ Density of Gamma distribution with parameters A and B }
7545: function DKhi2(Nu : Integer; X : Float) : Float;
{ Density of Khi-2 distribution with Nu d.o.f. }
7547: function DStudent(Nu : Integer; X : Float) : Float;
{ Density of Student distribution with Nu d.o.f. }
7549: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
{ Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
7551: function IBeta(A, B, X : Float) : Float;
{ Incomplete Beta function}
7553: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7554:
7555: procedure SIRegister_unlfit(CL: TPSPPascalCompiler);
7556: begin
7557: Procedure SetOptAlgo( Algo : TOptAlgo)
7558: procedure SetOptAlgo(Algo : TOptAlgo);
7559: {
----- Sets the optimization algorithm according to Algo, which must be
7561: NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ }
7562:
7563: Function GetOptAlgo : TOptAlgo
7564: Procedure SetMaxParam( N : Byte)
7565: Function GetMaxParam : Byte
7566: Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7567: Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7568: Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7569: Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter :
Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7570: Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub:Integer;
MaxIter:TInteger; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7571: Procedure SetMCFile( FileName : String)
7572: Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7573: Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
LastPar:Integer;V:TMatrix);
7574: end;
7575:
7576: (*-----*)
7577: procedure SIRegister_usimplex(CL: TPSPPascalCompiler);
7578: begin
7579: Procedure SaveSimplex( FileName : string)
7580: Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7581: end;
7582: (*-----*)
7583: procedure SIRegister_uregtest(CL: TPSPPascalCompiler);
7584: begin
7585: Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7586: Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7587: end;

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7588:
7589: procedure SIRегистер_ustrings(CL: TPSpascalCompiler);
7590: begin
7591:   Function LTrim( S : String ) : String
7592:   Function RTrim( S : String ) : String
7593:   Function uTrim( S : String ) : String
7594:   Function StrChar( N : Byte; C : Char ) : String
7595:   Function RFill( S : String; L : Byte ) : String
7596:   Function LFill( S : String; L : Byte ) : String
7597:   Function CFill( S : String; L : Byte ) : String
7598:   Function Replace( S : String; C1, C2 : Char ) : String
7599:   Function Extract( S : String; var Index : Byte; Delim : Char ) : String
7600: Procedure Parse( S : String; Delim : Char; Field : TStringVector; var N : Byte)
7601: Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7602: Function FloatStr( X : Float ) : String
7603: Function IntStr( N : LongInt ) : String
7604: Function uCompStr( Z : Complex ) : String
7605: end;
7606:
7607: procedure SIRегистер_uhyper(CL: TPSpascalCompiler);
7608: begin
7609:   Function uSinh( X : Float ) : Float
7610:   Function uCosh( X : Float ) : Float
7611:   Function uTanh( X : Float ) : Float
7612:   Function uArcSinh( X : Float ) : Float
7613:   Function uArcCosh( X : Float ) : Float
7614:   Function ArcTanh( X : Float ) : Float
7615:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float )
7616: end;
7617:
7618: procedure SIRегистер_urandom(CL: TPSpascalCompiler);
7619: begin
7620: type RNG_Type =
7621:   (RNG_MWC, { Multiply-With-Carry }
7622:    RNG_MT, { Mersenne Twister }
7623:    RNG_UVAG); { Universal Virtual Array Generator }
7624: Procedure SetRNG( RNG : RNG_Type )
7625: Procedure InitGen( Seed : RNG_IntType )
7626: Procedure SRand( Seed : RNG_IntType )
7627: Function IRanGen : RNG_IntType
7628: Function IRanGen31 : RNG_IntType
7629: Function RanGen1 : Float
7630: Function RanGen2 : Float
7631: Function RanGen3 : Float
7632: Function RanGen53 : Float
7633: end;
7634:
7635: // Optimization by Simulated Annealing
7636: procedure SIRегистер_usimann(CL: TPSpascalCompiler);
7637: begin
7638:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float )
7639:   Procedure SA_CreateLogFile( FileName : String )
7640:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float );
7641: end;
7642:
7643: procedure SIRегистер_uranuvag(CL: TPSpascalCompiler);
7644: begin
7645:   Procedure InitUVAGbyString( KeyPhrase : string )
7646:   Procedure InitUVAG( Seed : RNG_IntType )
7647:   Function IRanUVAG : RNG_IntType
7648: end;
7649:
7650: procedure SIRегистер_ugenalg(CL: TPSpascalCompiler);
7651: begin
7652:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float )
7653:   Procedure GA_CreateLogFile( LogFileName : String )
7654:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float );
7655: end;
7656:
7657: TVector', 'array of Float
7658: procedure SIRегистер_uqsort(CL: TPSpascalCompiler);
7659: begin
7660:   Procedure QSort( X : TVector; Lb, Ub : Integer )
7661:   Procedure DQSort( X : TVector; Lb, Ub : Integer )
7662: end;
7663:
7664: procedure SIRегистер_uinterv(CL: TPSpascalCompiler);
7665: begin
7666:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float )
7667:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float )
7668: end;
7669:
7670: procedure SIRегистер_D2XXUnit(CL: TPSpascalCompiler);
7671: begin
7672:   FT_Result', 'Integer
7673:   //TDWordptr', '^DWord // will not work
7674:   TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor'
7675:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PChar'
7676:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'

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7677:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7678:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7679:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7680:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7681:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7682:   Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By'
7683:   te; IFAIsFastSer : Byte; AIsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B'
7684:   yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7685:   Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I'
7686:   nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7687:   ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 : '
7688:   : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIIsVCP : B'
7689:   yte; end
7690: end;
7691:
7692:
7693: //***** PaintFX*****
7694: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7695: begin
7696:   //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7697:   with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7698:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7699:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7700:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7701:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7702:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7703:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7704:     Procedure Turn( Src, Dst : TBitmap)
7705:     Procedure TurnRight( Src, Dst : TBitmap)
7706:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7707:     Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7708:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7709:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7710:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7711:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7712:     Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7713:     Procedure DrawMandelJulia(const Dst: TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7714:     Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7715:     Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7716:     Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7717:     Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7718:     Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7719:     Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7720:     Procedure Emboss( var Bmp : TBitmap)
7721:     Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7722:     Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7723:     Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7724:     Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7725:     Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7726:     Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7727:     Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7728:     Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7729:     Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7730:     Procedure QuartoOpaque( Src, Dst : TBitmap)
7731:     Procedure SemiOpaque( Src, Dst : TBitmap)
7732:     Procedure ShadowDownLeft( const Dst : TBitmap)
7733:     Procedure ShadowDownRight( const Dst : TBitmap)
7734:     Procedure ShadowUpLeft( const Dst : TBitmap)
7735:     Procedure ShadowUpRight( const Dst : TBitmap)
7736:     Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7737:     Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7738:     Procedure FlipRight( const Dst : TBitmap)
7739:     Procedure FlipDown( const Dst : TBitmap)
7740:     Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7741:     Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7742:     Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7743:     Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7744:     Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7745:     Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7746:     Procedure SmoothResize( var Src, Dst : TBitmap)
7747:     Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7748:     Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7749:     Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7750:     Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7751:     Procedure GrayScale( const Dst : TBitmap)
7752:     Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7753:     Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7754:     Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7755:     Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7756:     Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7757:     Procedure Spray( const Dst : TBitmap; Amount : Integer)
7758:     Procedure AntiAlias( const Dst : TBitmap)
7759:     Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7760:     Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7761:     Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7762:     Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7763:     Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7764:     Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7765:     Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)

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7766: Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7767: Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7768: Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7769: Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7770: Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7771: Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7772: Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7773: Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7774: Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7775: Procedure Invert( Src : TBitmap)
7776: Procedure MirrorRight( Src : TBitmap)
7777: Procedure MirrorDown( Src : TBitmap)
7778: end;
7779: end;
7780:
7781: (*-----*)
7782: procedure SIRegister_JvPaintFX(CL: TPSPascalCompiler);
7783: begin
7784:   AddTypes('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7785:   +'ye, lbrotate, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7786:   +'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7787:   SIRegister_TJvPaintFX(CL);
7788:   Function SplineFilter( Value : Single) : Single
7789:   Function BellFilter( Value : Single) : Single
7790:   Function TriangleFilter( Value : Single) : Single
7791:   Function BoxFilter( Value : Single) : Single
7792:   Function HermiteFilter( Value : Single) : Single
7793:   Function Lanczos3Filter( Value : Single) : Single
7794:   Function MitchellFilter( Value : Single) : Single
7795: end;
7796:
7797:
7798: (*-----*)
7799: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7800: begin
7801:   'TeeMsg_DefaultFunctionName','String 'TeeFunction
7802:   TeeMsg_DefaultSeriesName','String 'Series
7803:   TeeMsg_DefaultToolName','String 'ChartTool
7804:   ChartComponentPalette','String 'TeeChart
7805:   TeeMaxLegendColumns',LongInt'( 2);
7806:   TeeDefaultLegendSymbolWidth',LongInt'( 20);
7807:   TeeTitleFootDistance,LongInt( 5);
7808:   SIRegister_TCustomChartWall(CL);
7809:   SIRegister_TChartWall(CL);
7810:   SIRegister_TChartLegendGradient(CL);
7811:   TLegendStyle', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )
7812:   TLegendAlignment', '( laLeft, laRight, laTop, laBottom )
7813:   FindClass('TOBJECT'),'LegendException
7814:   TOGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7815:   +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7816:   FindClass('TOBJECT'),'TCustomChartLegend
7817:   TLegendSymbolSize', '( lcsPercent, lcsPixels )
7818:   TLegendSymbolPosition', '( spLeft, spRight )
7819:   TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect);
7820:   TSymbolCalcHeight', 'Function : Integer
7821:   SIRegister_TLegendSymbol(CL);
7822:   SIRegister_TTeeCustomShapePosition(CL);
7823:   TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7824:   SIRegister_TLegendTitle(CL);
7825:   SIRegister_TLegendItem(CL);
7826:   SIRegister_TLegendItems(CL);
7827:   TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7828:   FindClass('TOBJECT'),'TCustomChart
7829:   SIRegister_TCustomChartLegend(CL);
7830:   SIRegister_TChartLegend(CL);
7831:   SIRegister_TChartTitle(CL);
7832:   SIRegister_TChartFootTitle(CL);
7833:   TChartClick', 'Procedure ( Sender : TCustomChart; Button : TMous'
7834:   +'eButton; Shift : TShiftState; X, Y : Integer)
7835:   TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7836:   +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7837:   TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7838:   +'TChartSeries; ValueIndex : Integer; Button: TMouseButton; Shift:TShiftState;X,Y:Integer)
7839:   TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7840:   +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7841:   TOGetLegendPos', 'Procedure ( Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7842:   TOGetLegendRect', 'Procedure ( Sender : TCustomChart; var Rect : TRect)
7843:   TAxisSavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7844:   +'toMax : Boolean; Min : Double; Max : Double; end
7845:   TA1lAxisSavedScales', 'array of TAxisSavedScales
7846:   SIRegister_TChartBackWall(CL);
7847:   SIRegister_TChartRightWall(CL);
7848:   SIRegister_TChartBottomWall(CL);
7849:   SIRegister_TChartLeftWall(CL);
7850:   SIRegister_TChartWalls(CL);
7851:   TChartAllowScrollEvent', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);'
7852:   SIRegister_TCustomChart(CL);
7853:   SIRegister_TChart(CL);
7854:   SIRegister_TTeeSeriesTypes(CL);

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7855:  SIRегистер_TTeeToolTypes(CL);
7856:  SIRегистер_TTeeDragObject(CL);
7857:  SIRегистер_TColorPalettes(CL);
7858:  Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass; ADescription,
    AGalleryPage:PString; ANumGallerySeries:Integer);
7859:  Procedure RegisterTeeSeries1( ASeriesClass : TChartSeriesClass; ADescription : PString);
7860:  Procedure RegisterTeeFunction(AFuncClass:TTeeFunctionClass; ADescription,
    AGalleryPage:PString; ANumGallerySeries : Int;
7861:  Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADescription : PString)
7862:  Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass; AFunctionClass:TTeeFunctionClass;
    ADescription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7863:  Procedure UnRegisterTeeFunctions( const ASeriesList : array of TChartSeriesClass)
7864:  Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries)
7865:  Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass) : TTeeFunction
7866:  Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
    AFunctionClass : TTeeFunctionClass) : TChartSeries
7867:  Function CloneChartSeries( ASeries : TChartSeries) : TChartSeries;
7868:  Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel) : TChartSeries;
7869:  Function CloneChartSeries2(ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7870:  Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7871:  Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass) : TChartSeries
7872:  Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass)
7873:  Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7874:  Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7875:  Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass)
7876:  Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7877:  Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
    R:TRect;ReferenceChart:TCustomChart);
7878:  SIRегистер_TChartTheme(CL);
7879:  //TChartThemeClass', 'class of TChartTheme
7880:  //TCanvasClass', 'class of TCanvas3D
7881:  Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7882:  Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7883:  Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean)
7884:  Procedure ShowMessageUser( const S : String)
7885:  Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7886:  Function HasLabels( ASeries : TChartSeries ) : Boolean
7887:  Function HasColors( ASeries : TChartSeries ) : Boolean
7888:  Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7889:  Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer)
7890: end;
7891:
7892:
7893:
7894: procedure SIRегистер_TeeProcs(CL: TPSPascalCompiler);
7895: begin
7896:  //TeeFormBorderStyle',' bsNone );
7897:  SIRегистер_TMetafile(CL);
7898:  'TeeDefVerticalMargin','LongInt'( 4 );
7899:  'TeeDefHorizMargin','LongInt'( 3 );
7900:  'crTeeHand','LongInt'( TCursor ( 2020 ) );
7901:  'TeeMsg_TeeHand','String 'crTeeHand
7902:  'TeeNormalPrintDetail','LongInt'( 0 );
7903:  'TeeHighPrintDetail','LongInt'( - 100 );
7904:  'TeeDefault_PrintMargin','LongInt'( 15 );
7905:  'MaxDefaultColors','LongInt'( 19 );
7906:  'TeeTabDelimiter','Char #9';
7907:  TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7908:  +'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7909:  +'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7910:  +'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7911:  +'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7912:  +'ourMonths, dtSixMonths, dtOneYear, dtNone )
7913:  SIRегистер_TCustomPanelNoCaption(CL);
7914:  FindClass('TOBJECT'),'TCustomTeePanel
7915:  SIRегистер_TZoomPanning(CL);
7916:  SIRегистер_TTeeEvent(CL);
7917:  //SIRегистер_TTeeEventListeners(CL);
7918:  TTeeMouseEventKind', '( meDown, meUp, meMove )
7919:  SIRегистер_TTeeMouseEvent(CL);
7920:  SIRегистер_TCustomTeePanel(CL);
7921:  //TChartGradient', 'TTeeGradient
7922:  //TChartGradientClass', 'class of TChartGradient
7923:  TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7924:  SIRегистер_TTeeZoomPen(CL);
7925:  SIRегистер_TTeeZoomBrush(CL);
7926:  TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7927:  SIRегистер_TTeeZoom(CL);
7928:  FindClass('TOBJECT'),'TCustomTeePanelExtended
7929:  TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7930:  SIRегистер_TBackImage(CL);
7931:  SIRегистер_TCustomTeePanelExtended(CL);
7932:  //TChartBrushClass', 'class of TChartBrush
7933:  SIRегистер_TTeeCustomShapeBrushPen(CL);
7934:  TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7935:  TTextFormat', '( ttfNormal, ttfHtml )
7936:  SIRегистер_TTeeCustomShape(CL);
7937:  SIRегистер_TTeeShape(CL);
7938:  SIRегистер_TTeeExportData(CL);

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7939: Function TeeStr( const Num : Integer ) : String
7940: Function DateTimeDefaultFormat( const AStep : Double ) : String
7941: Function TEEDaysInMonth( Year, Month : Word ) : Word
7942: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep
7943: Function NextDateTimeStep( const AStep : Double ) : Double
7944: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7945: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7946: Function PointInLine2( const P, FromPoint, ToPoint : TPoint; const TolerancePixels : Integer ) : Boolean;
7947: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels : Integer ) : Boolean;
7948: Function PointInLineTolerance( const P : TPoint; const px, py, qx, qy, TolerancePixels : Integer ) : Boolean;
7949: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean
7950: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;
7951: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
7952: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean
7953: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7954: Function PointInEllipse1( const P : TPoint; Left, Top, Right, Bottom : Integer ) : Boolean;
7955: Function DelphiToLocalFormat( const Format : String ) : String
7956: Function LocalToDelphiFormat( const Format : String ) : String
7957: Procedure TEEEnableControls( Enable : Boolean; const ControlArray : array of TControl )
7958: Function TeeRoundDate( const ADate : TDateTime; AStep : TDateTimeStep ) : TDateTime
7959: Procedure TeeDateTimeIncrement( IsDateTime : Boolean; Increment : Boolean; var Value : Double; const
AnIncrement : Double; tmpWhichDateTime : TDateTimeStep )
7960: TTeeSortCompare', 'Function ( a, b : Integer ) : Integer
7961: TTeeSortSwap', 'Procedure ( a, b : Integer )
7962: Procedure TeeSort( StartIndex, EndIndex : Integer; CompareFunc : TTeeSortCompare; SwapFunc : TTeeSortSwap );
7963: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string
7964: Function TeeExtractField( St : String; Index : Integer ) : String;
7965: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
7966: Function TeeNumFields( St : String ) : Integer;
7967: Function TeeNumFields1( const St, Separator : String ) : Integer;
7968: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap )
7969: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String )
7970: // TColorArray', 'array of TColor
7971: Function GetDefaultColor( const Index : Integer ) : TColor
7972: Procedure SetDefaultColorPalette;
7973: Procedure SetDefaultColorPalette1( const Palette : array of TColor );
7974: 'TeeCheckBoxSize', 'LongInt'( 11 );
7975: Procedure TeeDrawCheckBox( x, y : Integer; Canvas : TCanvas; Checked : Boolean; ABackColor : TColor; CheckBox : Boolean );
7976: Function TEEStringToFloatDef( const S : string; const Default : Extended ) : Extended
7977: Function TryStrToFloat( const S : string; var Value : Double ) : Boolean
7978: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean
7979: Procedure TeeTranslateControl( AControl : TControl );
7980: Procedure TeeTranslateControl1( AControl : TControl; const ExcludeChildren : array of TControl );
7981: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String
7982: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints )
7983: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean ) : TBitmap
7984: //Procedure DrawBevel( Canvas : TTeeCanvas; Bevel : TPanelBevel; var R : TRect; Width : Integer; Round : Integer );
7985: //Function ScreenRatio( ACanvas : TCanvas3D ) : Double
7986: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean ) : Boolean
7987: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean )
7988: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer ) : Integer
7989: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer )
7990: Function TeeReadStringOption( const AKey, DefaultValue : String ) : String
7991: Procedure TeeSaveStringOption( const AKey, Value : String )
7992: Function TeeDefaultXMLEncoding : String
7993: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean )
7994: TeeWindowHandle', 'Integer
7995: Procedure TeeGoToURL( Handle : TeeWindowHandle; const URL : String )
7996: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String )
7997: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String ) : TSize
7998: end;
7999:
8000:
8001: using mXBDEUtils
8002: ****
8003: Procedure SetAlias( aAlias, aDirectory : String )
8004: Procedure CheckRegistryEntry( Reg : TRegistry; const Path, Value : String; const Default,
Desired : Variant; Size : Byte );
8005: Function GetFileVersionNumber( const FileName : String ) : TVersionNo
8006: Procedure SetBDE( aPath, aNode, aValue : String )
8007: function RestartDialog( Wnd : HWnd; Reason : PChar; Flags : Integer ) : Integer; stdcall;
8008: Function GetSystemDirectory( lpBuffer : string; uSize : UINT ) : UINT
8009: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT ) : UINT
8010: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string ) : DWORD
8011: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string ) : DWORD
8012: Function GetTempFileName( lpPathName, lpPrefixString : string; uUnique : UInt; lpTempFileName : string ) : UInt;
8013:
8014:
8015: procedure SIRegister_cDateTime( CL : TPPascalCompiler );
8016: begin
8017: AddClassN( FindClass( 'TOBJECT' ), 'EDateTime'
8018: Function DatePart( const D : TDateTime ) : Integer
8019: Function TimePart( const D : TDateTime ) : Double
8020: Function Century( const D : TDateTime ) : Word
8021: Function Year( const D : TDateTime ) : Word
8022: Function Month( const D : TDateTime ) : Word
8023: Function Day( const D : TDateTime ) : Word
8024: Function Hour( const D : TDateTime ) : Word
8025: Function Minute( const D : TDateTime ) : Word

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8026: Function Second( const D : TDateTime ) : Word
8027: Function Millisecond( const D : TDateTime ) : Word
8028: ('OneDay','Extended').SetExtended( 1.0 );
8029: ('OneHour','Extended').SetExtended( OneDay / 24 );
8030: ('OneMinute','Extended').SetExtended( OneHour / 60 );
8031: ('OneSecond','Extended').SetExtended( OneMinute / 60 );
8032: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000 );
8033: ('OneWeek','Extended').SetExtended( OneDay * 7 );
8034: ('HoursPerDay','Extended').SetExtended( 24 );
8035: ('MinutesPerHour','Extended').SetExtended( 60 );
8036: ('SecondsPerMinute','Extended').SetExtended( 60 );
8037: Procedure SetYear( var D : TDateTime; const Year : Word )
8038: Procedure SetMonth( var D : TDateTime; const Month : Word )
8039: Procedure SetDay( var D : TDateTime; const Day : Word )
8040: Procedure SetHour( var D : TDateTime; const Hour : Word )
8041: Procedure SetMinute( var D : TDateTime; const Minute : Word )
8042: Procedure SetSecond( var D : TDateTime; const Second : Word )
8043: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word )
8044: Function IsEqual( const D1, D2 : TDateTime ) : Boolean;
8045: Function IsEqual( const D1 : TDateTime; const Ye, Mo, Da : Word ):Boolean;
8046: Function IsEqual( const D1 : TDateTime; const Ho, Mi, Se, ms : Word ):Boolean;
8047: Function IsAM( const D : TDateTime ) : Boolean
8048: Function IsPM( const D : TDateTime ) : Boolean
8049: Function IsMidnight( const D : TDateTime ) : Boolean
8050: Function IsNoon( const D : TDateTime ) : Boolean
8051: Function IsSunday( const D : TDateTime ) : Boolean
8052: Function IsMonday( const D : TDateTime ) : Boolean
8053: Function IsTuesday( const D : TDateTime ) : Boolean
8054: Function IsWednesday( const D : TDateTime ) : Boolean
8055: Function IsThursday( const D : TDateTime ) : Boolean
8056: Function IsFriday( const D : TDateTime ) : Boolean
8057: Function IsSaturday( const D : TDateTime ) : Boolean
8058: Function IsWeekend( const D : TDateTime ) : Boolean
8059: Function Noon( const D : TDateTime ) : TDateTime
8060: Function Midnight( const D : TDateTime ) : TDateTime
8061: Function FirstDayOfMonth( const D : TDateTime ) : TDateTime
8062: Function LastDayOfMonth( const D : TDateTime ) : TDateTime
8063: Function NextWorkday( const D : TDateTime ) : TDateTime
8064: Function PreviousWorkday( const D : TDateTime ) : TDateTime
8065: Function FirstDayOfYear( const D : TDateTime ) : TDateTime
8066: Function LastDayOfYear( const D : TDateTime ) : TDateTime
8067: Function EasterSunday( const Year : Word ) : TDateTime
8068: Function GoodFriday( const Year : Word ) : TDateTime
8069: Function AddMilliseconds( const D : TDateTime; const N : Int64 ) : TDateTime
8070: Function AddSeconds( const D : TDateTime; const N : Int64 ) : TDateTime
8071: Function AddMinutes( const D : TDateTime; const N : Integer ) : TDateTime
8072: Function AddHours( const D : TDateTime; const N : Integer ) : TDateTime
8073: Function AddDays( const D : TDateTime; const N : Integer ) : TDateTime
8074: Function AddWeeks( const D : TDateTime; const N : Integer ) : TDateTime
8075: Function AddMonths( const D : TDateTime; const N : Integer ) : TDateTime
8076: Function AddYears( const D : TDateTime; const N : Integer ) : TDateTime
8077: Function DayOfYear( const Ye, Mo, Da : Word ) : Integer
8078: Function DayOfYear( const D : TDateTime ) : Integer
8079: Function DaysInMonth( const Ye, Mo : Word ) : Integer
8080: Function DaysInMonth( const D : TDateTime ) : Integer
8081: Function DaysInYear( const Ye : Word ) : Integer
8082: Function DaysInYearDate( const D : TDateTime ) : Integer
8083: Function WeekNumber( const D : TDateTime ) : Integer
8084: Function ISOFirstWeekOfYear( const Ye : Word ) : TDateTime
8085: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word )
8086: Function DiffMilliseconds( const D1, D2 : TDateTime ) : Int64
8087: Function DiffSeconds( const D1, D2 : TDateTime ) : Integer
8088: Function DiffMinutes( const D1, D2 : TDateTime ) : Integer
8089: Function DiffHours( const D1, D2 : TDateTime ) : Integer
8090: Function DiffDays( const D1, D2 : TDateTime ) : Integer
8091: Function DiffWeeks( const D1, D2 : TDateTime ) : Integer
8092: Function DiffMonths( const D1, D2 : TDateTime ) : Integer
8093: Function DiffYears( const D1, D2 : TDateTime ) : Integer
8094: Function GMTBias : Integer
8095: Function GMTTimeToLocalTime( const D : TDateTime ) : TDateTime
8096: Function LocalTimeToGMTTime( const D : TDateTime ) : TDateTime
8097: Function NowAsGMTTime : TDateTime
8098: Function DatetimeToISO8601String( const D : TDateTime ) : AnsiString
8099: Function ISO8601StringToTime( const D : AnsiString ) : TDateTime
8100: Function ISO8601StringAsDateTime( const D : AnsiString ) : TDateTime
8101: Function DateTimeToANSI( const D : TDateTime ) : Integer
8102: Function ANSIToDate( const Julian : Integer ) : TDateTime
8103: Function DateTimeToISOInteger( const D : TDateTime ) : Integer
8104: Function DateTimeToISOString( const D : TDateTime ) : AnsiString
8105: Function ISOIntegerToDate( const ISOInteger : Integer ) : TDateTime
8106: Function TwoDigitRadix2000YearToYear( const Y : Integer ) : Integer
8107: Function DateTimeAsElapsedTime( const D: TDateTime; const IncludeMilliseconds:Boolean ):AnsiString
8108: Function UnixTimeToDate( const UnixTime : LongWord ) : TDateTime
8109: Function DateTimeToUnixTime( const D : TDateTime ) : LongWord
8110: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8111: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8112: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer ) : AnsiString
8113: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer ) : UnicodeString
8114: Function EnglishShortMonthStrA( const Month : Integer ) : AnsiString

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8115: Function EnglishShortMonthStrU( const Month : Integer ) : UnicodeString
8116: Function EnglishLongMonthStrA( const Month : Integer ) : AnsiString
8117: Function EnglishLongMonthStrU( const Month : Integer ) : UnicodeString
8118: Function EnglishShortDayOfWeekA( const S : AnsiString ) : Integer
8119: Function EnglishShortDayOfWeekU( const S : UnicodeString ) : Integer
8120: Function EnglishLongDayOfWeekA( const S : AnsiString ) : Integer
8121: Function EnglishLongDayOfWeekU( const S : UnicodeString ) : Integer
8122: Function EnglishShortMonthA( const S : AnsiString ) : Integer
8123: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8124: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8125: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8126: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8127: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8128: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8129: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8130: Function RFCMonthA( const S : AnsiString ) : Word
8131: Function RFCMonthU( const S : UnicodeString ) : Word
8132: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds:Boolean ) : AnsiString
8133: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds:Boolean ) : UnicodeString
8134: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek:Bool ):AnsiString;
8135: Function GMTDateTimeToRFC1123DateTimeU( const D : TDateTime; const IncludeDayOfWeek:Bool ):UnicodeString;
8136: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8137: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8138: Function NowAsRFCDateTimeA : AnsiString
8139: Function NowAsRFCDateTimeU : UnicodeString
8140: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8141: Function RFCDateTimeToDateTIme( const S : AnsiString ) : TDateTime
8142: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8143: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8144: Procedure SelfTest
8145: end;
8146: //*****CFileUtils
8147: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean
8148: Function PathHasDriveLetter( const Path : String ) : Boolean
8149: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8150: Function PathIsDriveLetter( const Path : String ) : Boolean
8151: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8152: Function PathIsDriveRoot( const Path : String ) : Boolean
8153: Function PathIsRootA( const Path : AnsiString ) : Boolean
8154: Function PathIsRoot( const Path : String ) : Boolean
8155: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8156: Function PathIsUNCPath( const Path : String ) : Boolean
8157: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8158: Function PathIsAbsolute( const Path : String ) : Boolean
8159: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8160: Function PathIsDirectory( const Path : String ) : Boolean
8161: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8162: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8163: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8164: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8165: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8166: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8167: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8168: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8169: //Function PathCanonicalA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8170: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8171: Function PathExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8172: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8173: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8174: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8175: Procedure PathSplitLeftElementA( const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char );
8176: Procedure PathSplitLeftElement( const Path:String; var LeftElement,RightPath: String;const PathSep:Char );
8177: Procedure DecodeFilePathA( const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char );
8178: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8179: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8180: Function FileNameValid( const FileName : String ) : String
8181: Function FilePathA( const FileName,Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8182: Function FilePath( const FileName, Path : String;const basePath : String;const PathSep : Char ) : String
8183: Function DirectoryExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8184: Function DirectoryExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8185: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8186: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8187: Procedure CCopyFile( const FileName, DestName : String )
8188: Procedure CMoveFile( const FileName, DestName : String )
8189: Function CDeleteFiles( const FileMode : String ) : Boolean
8190: Function FileSeekEx( const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8191: Procedure FileCloseEx( const FileHandle : TFileHandle )
8192: Function FileExistsA( const FileName : AnsiString ) : Boolean
8193: Function CFileExists( const FileName : String ) : Boolean
8194: Function CFileGetSize( const FileName : String ) : Int64
8195: Function FileGetDateTime( const FileName : String ) : TDateTime
8196: Function FileGetDateTime2( const FileName : String ) : TDateTime
8197: Function FileIsReadOnly( const FileName : String ) : Boolean
8198: Procedure FileDeleteEx( const FileName : String )
8199: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8200: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8201: Function DirectoryEntryExists( const Name : String ) : Boolean
8202: Function DirectoryEntrySize( const Name : String ) : Int64

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

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8292: ('C3_HALFWIDTH','LongWord( $0040);
8293: ('C3_FULLWIDTH','LongWord( $0080);
8294: ('C3_IDEOGRAPH','LongWord( $0100);
8295: ('C3_KASHIDA','LongWord( $0200);
8296: ('C3_LEXICAL','LongWord( $0400);
8297: ('C3_ALPHA','LongWord( $8000);
8298: ('C3_NOTAPPPLICABLE','LongInt'( 0);
8299: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8300: Function synStrRScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8301: Function synIsStringType( Value : Word ) : TStringType
8302: Function synGetEOL( Line : PChar ) : PChar
8303: Function synEncodeString( s : string ) : string
8304: Function synDecodeString( s : string ) : string
8305: Procedure synFreeAndNil( var Obj: TObject )
8306: Procedure synAssert( Expr : Boolean )
8307: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8308: TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8309: TReplaceFlags', 'set of TReplaceFlag )
8310: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8311: Function synGetRValue( RGBValue : TColor ) : byte
8312: Function synGetGValue( RGBValue : TColor ) : byte
8313: Function synGetBValue( RGBValue : TColor ) : byte
8314: Function synRGB( r, g, b : Byte) : Cardinal
8315: // THighlighterAttrProc', 'Function( Highlighter : TSynCustomHigh'
8316: // +'lighter; Attr:TSynHighlighterAttributes;UniqueAttrName:string;Params array of Pointer):Boolean;
8317: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8318: HighlighterAttrProc : THighlighterAttrProc; Params : array of Pointer ) : Boolean
8319: Function synCalcFCS( const ABuf, ABufSize : Cardinal ) : Word
8320: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
     AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8321: end;
8322: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD
8323: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8324: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8325:
8326: procedure SIRegister_synautil(CL: TPPSPascalCompiler);
8327: begin
8328:   Function STimeZoneBias : integer
8329:   Function TimeZone : string
8330:   Function Rfc822DateTime( t : TDateTime ) : string
8331:   Function CDateTime( t : TDateTime ) : string
8332:   Function SimpleDateTime( t : TDateTime ) : string
8333:   Function AnsiDateTime( t : TDateTime ) : string
8334:   Function GetMonthNumber( Value : string ) : integer
8335:   Function GetTimeFromStr( Value : string ) : TDateTime
8336:   Function GetDateMDYFromStr( Value : string ) : TDateTime
8337:   Function DecodeRFCDateTime( Value : string ) : TDateTime
8338:   Function GetUTTTime : TDateTime
8339:   Function SetUTTTime( Newdt : TDateTime ) : Boolean
8340:   Function SGetTick : LongWord
8341:   Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8342:   Function CodeInt( Value : Word ) : Ansistring
8343:   Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8344:   Function CodeLongInt( Value : LongInt ) : Ansistring
8345:   Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8346:   Function DumpStr( const Buffer : Ansistring ) : string
8347:   Function DumpExStr( const Buffer : Ansistring ) : string
8348:   Procedure Dump( const Buffer : AnsiString; DumpFile : string )
8349:   Procedure DumpEx( const Buffer : AnsiString; DumpFile : string )
8350:   Function TrimSPLeft( const S : string ) : string
8351:   Function TrimSPRight( const S : string ) : string
8352:   Function TrimSP( const S : string ) : string
8353:   Function SeparateLeft( const Value, Delimiter : string ) : string
8354:   Function SeparateRight( const Value, Delimiter : string ) : string
8355:   Function SGetParameter( const Value, Parameter : string ) : string
8356:   Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8357:   Procedure ParseParameters( Value : string; const Parameters : TStrings )
8358:   Function IndexByBegin( Value : string; const List : TStrings ) : integer
8359:   Function GetEmailAddr( const Value : string ) : string
8360:   Function GetEmailDesc( Value : string ) : string
8361:   Function CStrToHex( const Value : Ansistring ) : string
8362:   Function CIntToBin( Value : Integer; Digits : Byte ) : string
8363:   Function CBinToInt( const Value : string ) : Integer
8364:   Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8365:   Function CReplaceString( Value, Search, Replace : AnsiString ) : AnsiString
8366:   Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8367:   Function CRPos( const Sub, Value : String ) : Integer
8368:   Function FetchBin( var Value : string; const Delimiter : string ) : string
8369:   Function CFetch( var Value : string; const Delimiter : string ) : string
8370:   Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8371:   Function IsBinaryString( const Value : AnsiString ) : Boolean
8372:   Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString ) : integer
8373:   Procedure StringsTrim( const value : TStrings )
8374:   Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8375:   Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8376:   Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8377:   Function CCountOfChar( const Value : string; aChr : char ) : integer
8378:   Function UnquoteStr( const Value : string; Quote : Char ) : string

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8379: Function QuoteStr( const Value : string; Quote : Char ) : string
8380: Procedure HeadersToList( const Value : TStrings )
8381: Procedure ListToHeaders( const Value : TStrings )
8382: Function SwapBytes( Value : integer ) : integer
8383: Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8384: Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8385: Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8386: Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar ) : AnsiString
8387: Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8388: Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8389: end;
8390:
8391: procedure SIRegister_StCRC(CL: TPPascalCompiler);
8392: begin
8393:   ('CrcBufSize','LongInt'( 2048 );
8394:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8395:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8396:   Function Adler32OfFile( FileName : AnsiString ) : LongInt
8397:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8398:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8399:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8400:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8401:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8402:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8403:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8404:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8405:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8406:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8407:   Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8408:   Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
8409: end;
8410:
8411: procedure SIRegister_ComObj(cl: TPPascalCompiler);
8412: begin
8413:   function CreateOleObject(const ClassName: String): IDispatch;
8414:   function GetActiveOleObject(const ClassName: String): IDispatch;
8415:   function ProgIDToClassID(const ProgID: string): TGUID;
8416:   function ClassIDToProgID(const ClassID: TGUID): string;
8417:   function CreateClassID: string;
8418:   function CreateGUIDString: string;
8419:   function CreateGUIDID: string;
8420:   procedure OleError(ErrorCode: longint);
8421:   procedure OleCheck(Result: HResult);
8422: end;
8423:
8424: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8425: Function xGetActiveOleObject( const ClassName : string ) : Variant
8426: //Function DllGetClassObject( const CLSID : TGUID; const IID : TIID; var Obj ) : HResult
8427: Function DllCanUnloadNow : HResult
8428: Function DllRegisterServer : HResult
8429: Function DllUnregisterServer : HResult
8430: Function VarFromInterface( Unknown : IUnknown ) : Variant
8431: Function VarToInterface( const V : Variant ) : IDispatch
8432: Function VarToAutoObject( const V : Variant ) : TAutoObject
8433: //Procedure
     DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8434: //Procedure DispInvokeError( Status : HResult; const ExcepInfo : TExcepInfo )
8435: Procedure OleError( ErrorCode : HResult )
8436: Procedure OleCheck( Result : HResult )
8437: Function StringToClassID( const S : string ) : TGUID
8438: Function ClassIDToString( const ClassID : TGUID ) : string
8439: Function xProgIDToClassID( const ProgID : string ) : TGUID
8440: Function xClassIDToProgID( const ClassID : TGUID ) : string
8441: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8442: Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8443: Function xGUIDToString( const ClassID : TGUID ) : string
8444: Function xStringToGUID( const S : string ) : TGUID
8445: Function xGetModuleName( Module : HMODULE ) : string
8446: Function xAcquireExceptionObject : TObject
8447: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8448: Function xUtf8Encode( const WS : WideString ) : UTF8String
8449: Function xUtf8Decode( const S : UTF8String ) : WideString
8450: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8451: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8452: Function XRTLHandleCOMException : HResult
8453: Procedure XRTLCheckArgument( Flag : Boolean )
8454: //Procedure XRTLCheckOutArgument( out Arg )
8455: Procedure XRTLInterfaceConnect( const Source:IUnknown;const IID:TIID;const Sink:IUnknown;var Connection:Longint );
8456: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID;var Connection : Longint )
8457: Function XRTLRegisterActiveObject( const Unk:IUnknown;ClassID:TGUID;Flags:DWORD;var RegisterCookie:Int ) : HResult
8458: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer ) : HResult
8459: //Function XRTLGetActiveObject( ClassID : TGUID; RIID : TIID; out Obj ) : HResult
8460: Procedure XRTLEnumActiveObjects( Strings : TStrings )
8461: function XRTLDefaultCategoryManager: IUnknown;
8462: function XRTLIsCategoryEmpty( CatID: TGUID; const CategoryManager: IUnknown = nil ): Boolean;
8463: // ICatRegister helper functions
8464: function XRTLCREATECOMPONENTCATEGORY(CatID: TGUID; CatDescription: WideString);

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

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8553: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8554: Function XRTLSetValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8555: Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency;
8556: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency;
8557: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8558: Function XRTLSetValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8559: Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp;
8560: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp;
8561: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8562: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8563: Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass;
8564: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass;
8565: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8566: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8567: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID;
8568: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID;
8569: Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8570: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8571: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean;
8572: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean;
8573: end;
8574:
8575: //*****unit uPSI_GR32;*****
8576:
8577: Function Color32( WinColor : TColor ) : TColor32;
8578: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8579: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8580: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32;
8581: Function WinColor( Color32 : TColor32 ) : TColor;
8582: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32;
8583: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte );
8584: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte );
8585: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components;
8586: Function RedComponent( Color32 : TColor32 ) : Integer;
8587: Function GreenComponent( Color32 : TColor32 ) : Integer;
8588: Function BlueComponent( Color32 : TColor32 ) : Integer;
8589: Function AlphaComponent( Color32 : TColor32 ) : Integer;
8590: Function Intensity( Color32 : TColor32 ) : Integer;
8591: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32;
8592: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8593: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8594: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;
8595: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8596: Function WinPalette( const P : TPalette32 ) : HPALETTE;
8597: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8598: Function FloatPoint1( const P : TPoint ) : TFfloatPoint;
8599: Function FloatPoint2( const FXP : TFfixedPoint ) : TFfloatPoint;
8600: Function FixedPoint( X, Y : Integer ) : TFfixedPoint;
8601: Function FixedPoint1( X, Y : Single ) : TFfixedPoint;
8602: Function FixedPoint2( const P : TPoint ) : TFfixedPoint;
8603: Function FixedPoint3( const FP : TFfloatPoint ) : TFfixedPoint;
8604: AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )');
8605: Function MakeRect( const L, T, R, B : Integer ) : TRect;
8606: Function MakeRect1( const FR : TFloatRect; Rounding : TRectRounding ) : TRect;
8607: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding ) : TRect;
8608: Function GFixedRect( const L, T, R, B : TFixed ) : TRect;
8609: Function FixedRect1( const ARect : TRect ) : TRect;
8610: Function FixedRect2( const FR : TFfloatRect ) : TRect;
8611: Function GFloatRect( const L, T, R, B : TFfloat ) : TFfloatRect;
8612: Function FloatRect1( const ARect : TRect ) : TFfloatRect;
8613: Function FloatRect2( const FXR : TRect ) : TFfloatRect;
8614: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect ) : Boolean;
8615: Function IntersectRect1( out Dst : TFfloatRect; const FR1, FR2 : TFfloatRect ) : Boolean;
8616: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
8617: Function UnionRect1( out Rect : TFfloatRect; const R1, R2 : TFfloatRect ) : Boolean;
8618: Function GEEqualRect( const R1, R2 : TRect ) : Boolean;
8619: Function EqualRect1( const R1, R2 : TFfloatRect ) : Boolean;
8620: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer );
8621: Procedure InflateRect1( var FR : TFfloatRect; Dx, Dy : TFfloat );
8622: Procedure GOFFsetRect( var R : TRect; Dx, Dy : Integer );
8623: Procedure OffsetRect1( var FR : TFfloatRect; Dx, Dy : TFfloat );
8624: Function IsRectEmpty( const R : TRect ) : Boolean;
8625: Function IsRectEmpty1( const FR : TFfloatRect ) : Boolean;
8626: Function GPTInRect( const R : TRect; const P : TPoint ) : Boolean;
8627: Function PtInRect1( const R : TFfloatRect; const P : TPoint ) : Boolean;
8628: Function PtInRect2( const R : TRect; const P : TFfloatPoint ) : Boolean;
8629: Function PtInRect3( const R : TFfloatRect; const P : TFfloatPoint ) : Boolean;
8630: Function EqualRectSize( const R1, R2 : TRect ) : Boolean;
8631: Function EqualRectSize1( const R1, R2 : TFfloatRect ) : Boolean;
8632: Function MessageBeep( uType : UINT ) : BOOL;
8633: Function ShowCursor( bShow : BOOL ) : Integer;
8634: Function SetCursorPos( X, Y : Integer ) : BOOL;
8635: Function SetCursor( hCursor : HICON ) : HCURSOR;
8636: Function GetCursorPos( var lpPoint : TPoint ) : BOOL;
8637: //Function ClipCursor( lpRect : PRect ) : BOOL;
8638: Function GetClipCursor( var lpRect : TRect ) : BOOL;
8639: Function GetCursor : HCURSOR;
8640: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer ) : BOOL;
8641: Function GetCaretBlinkTime : UINT;

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8642: Function SetCaretBlinkTime( uMSeconds : UINT ) : BOOL
8643: Function DestroyCaret : BOOL
8644: Function HideCaret( hWnd : HWND ) : BOOL
8645: Function ShowCaret( hWnd : HWND ) : BOOL
8646: Function SetCaretPos( X, Y : Integer ) : BOOL
8647: Function GetCaretPos( var lpPoint : TPoint ) : BOOL
8648: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8649: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8650: Function MapWindowPoints( hWndFrom,hWndTo:HWND; var lpPoints, cPoints : UINT ) : Integer
8651: Function WindowFromPoint( Point : TPoint ) : HWND
8652: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint ) : HWND
8653:
8654:
8655: procedure SIRegister_GR32_Math(CL: TPSPascalCompiler);
8656: begin
8657:   Function FixedFloor( A : TFixed ) : Integer
8658:   Function FixedCeil( A : TFixed ) : Integer
8659:   Function FixedMul( A, B : TFixed ) : TFixed
8660:   Function FixedDiv( A, B : TFixed ) : TFixed
8661:   Function OneOver( Value : TFixed ) : TFixed
8662:   Function FixedRound( A : TFixed ) : Integer
8663:   Function FixedSqr( Value : TFixed ) : TFixed
8664:   Function FixedSqrtLP( Value : TFixed ) : TFixed
8665:   Function FixedSqrtHP( Value : TFixed ) : TFixed
8666:   Function FixedCombine( W, X, Y : TFixed ) : TFixed
8667:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8668:   Procedure GRSinCosL( const Theta, Radius : Single; out Sin, Cos : Single );
8669:   Function GRHypot( const X, Y : TFloat ) : TFloat;
8670:   Function Hypotl( const X, Y : Integer ) : Integer;
8671:   Function FastSqrt( const Value : TFloat ) : TFloat
8672:   Function FastSqrtBab1( const Value : TFloat ) : TFloat
8673:   Function FastSqrtBab2( const Value : TFloat ) : TFloat
8674:   Function FastInvSqrt( const Value : Single ) : Single;
8675:   Function MulDiv( Multiplicand, Multiplier, Divisor : Integer ) : Integer
8676:   Function GRIsPowerOf2( Value : Integer ) : Boolean
8677:   Function PrevPowerOf2( Value : Integer ) : Integer
8678:   Function NextPowerOf2( Value : Integer ) : Integer
8679:   Function Average( A, B : Integer ) : Integer
8680:   Function GRSign( Value : Integer ) : Integer
8681:   Function FloatMod( x, y : Double ) : Double
8682: end;
8683:
8684: procedure SIRegister_GR32_LowLevel(CL: TPSPascalCompiler);
8685: begin
8686:   Function Clamp( const Value : Integer ) : Integer;
8687:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword )
8688:   Function StackAlloc( Size : Integer ) : Pointer
8689:   Procedure StackFree( P : Pointer )
8690:   Procedure Swap( var A, B : Pointer );
8691:   Procedure Swap1( var A, B : Integer );
8692:   Procedure Swap2( var A, B : TFixed );
8693:   Procedure Swap3( var A, B : TColor32 );
8694:   Procedure TestSwap( var A, B : Integer );
8695:   Procedure TestSwap1( var A, B : TFixed );
8696:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8697:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8698:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8699:   Function Constrain1( const Value, Lo, Hi : Single ) : Single;
8700:   Function SwapConstrain( const Value:Integer; Constraint1,Constraint2:Integer ) : Integer
8701:   Function GRMin( const A, B, C : Integer ) : Integer;
8702:   Function GRMax( const A, B, C : Integer ) : Integer;
8703:   Function Clamp( Value, Max : Integer ) : Integer;
8704:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8705:   Function Wrap( Value, Max : Integer ) : Integer;
8706:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8707:   Function Wrap3( Value, Max : Single ) : Single;;
8708:   Function WrapPow2( Value, Max : Integer ) : Integer;
8709:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8710:   Function Mirror( Value, Max : Integer ) : Integer;
8711:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8712:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8713:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8714:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8715:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8716:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8717:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8718:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8719:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8720:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8721:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ) : TWrapProcEx;
8722:   Function Div255( Value : Cardinal ) : Cardinal
8723:   Function SAR_4( Value : Integer ) : Integer
8724:   Function SAR_8( Value : Integer ) : Integer
8725:   Function SAR_9( Value : Integer ) : Integer
8726:   Function SAR_11( Value : Integer ) : Integer
8727:   Function SAR_12( Value : Integer ) : Integer
8728:   Function SAR_13( Value : Integer ) : Integer
8729:   Function SAR_14( Value : Integer ) : Integer
8730:   Function SAR_15( Value : Integer ) : Integer

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8731: Function SAR_16( Value : Integer ) : Integer
8732: Function ColorSwap( WinColor : TColor ) : TColor32
8733: end;
8734:
8735: procedure SIRegister_GR32_Filters(CL: TPPSPascalCompiler);
8736: begin
8737:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )
8738:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8739:   Procedure CopyComponents1(Dst:TCustomBmap32;DstX,
8740:     DstY:Int;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8741:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 )
8742:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean )
8743:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 )
8744:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components )
8745:   Procedure InvertRGB( Dst, Src : TCustomBitmap32 )
8746:   Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean )
8747:   Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32 )
8748:   Function CreateBitmask( Components : TColor32Components ) : TColor32
8749:   Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
8750:     Bitmask : TColor32; LogicalOperator : TLogicalOperator );
8751:   Procedure ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8752:   Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean )
8753: end;
8754: procedure SIRegister_JclNTFS(CL: TPPSPascalCompiler);
8755: begin
8756:   AddClassN(FindClass('TOBJECT'), 'EJclNtfsError
8757:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )
8758:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8759:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8760:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean
8761:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState )
8762:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState)
8763:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState)
8764:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState;Recursive:Boolean;
8765: //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc'
8766: //+'+tedRangeBuffer; MoreData : Boolean; end
8767:   Function NtfsSetSparse( const FileName : string ) : Boolean
8768:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean
8769:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean
8770: //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64;var
8771: Ranges:TNtfsAllocRanges):Boolean;
8772: //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
8773: Index:Integer):TFileAllocatedRangeBuffer
8774:   Function NtfsParseStreamsSupported( const Volume : string ) : Boolean
8775:   Function NtfsGetSparse( const FileName : string ) : Boolean
8776:   Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean
8777:   Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean
8778: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8779:   Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean
8780:   Function NtfsReparsePointsSupported( const Volume : string ) : Boolean
8781:   Function NtfsFileHasReparsePoint( const Path : string ) : Boolean
8782:   Function NtfsIsFolderMountPoint( const Path : string ) : Boolean
8783:   Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean
8784:   Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean
8785:   AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )
8786:   Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8787:   Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8788:   Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8789:   Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8790:   Function NtfsRequestOpLock( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ) : Boolean
8791:   Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean
8792:   Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean
8793:   Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean
8794:   AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8795:   +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )
8796:   AddTypeS('TStreamIds', 'set of TStreamId
8797:   AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8798:   +': __Pointer; StreamIds : TStreamIds; end
8799:   AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8800:   +'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8801:   Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8802:   Function NtfsFindNextStream( var Data : TFindStreamData ) : Boolean
8803:   Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean
8804:   AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : int64; end
8805:   Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean
8806:   Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
8807:     List:TStrings):Bool;
8808:   Function NtfsDeleteHardLinks( const FileName : string ) : Boolean
8809:   Function JclAppInstances : TJclAppInstances;
8810:   Function ReadMessageCheck( var Message: TMessage;const IgnoredOriginatorWnd: HWND ) : TJclAppInstDataKind
8811:   Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer )
8812:   Procedure ReadMessageString( const Message : TMessage; var S : string )
8813:   Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings )

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8814:
8815: (*-----*)
8816: procedure SIRegister_JclGraphics(CL: TPSPPascalCompiler);
8817: begin
8818:   FindClass('TOBJECT'), 'EJclGraphicsError
8819:   TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8820:   TDynPointArray', 'array of TPoint
8821:   TDynDynPointArrayArray', 'array of TDynPointArray
8822:   TPointF', 'record X : Single; Y : Single; end
8823:   TDynPointArrayF', 'array of TPointF
8824:   TDrawMode2', '( dmOpaque, dmBlend )
8825:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8826:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8827:   TResamplingFilter', '( rfBox, rfTriangle, rfHermite, rfBell, rfSpline, rfLanczos3, rfMitchell )
8828:   TMatrix3d', 'record array[0..2,0..2] of extended end
8829:   TDynDynPointArrayArray', 'array of TDynPointArrayF
8830:   TScanLine', 'array of Integer
8831:   TScanLines', 'array of TScanLine
8832:   TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8833:   TGradientDirection', '( gdVertical, gdHorizontal )
8834:   TPolyFillMode', '( fmAlternate, fmWinding )
8835:   TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8836:   TJclRegionBitmapMode', '( rmInclude, rmExclude )
8837:   TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8838:   SIRegister_TJclDesktopCanvas(CL);
8839:   FindClass('TOBJECT'), 'TJclRegion
8840:   SIRegister_TJclRegionInfo(CL);
8841:   SIRegister_TJclRegion(CL);
8842:   SIRegister_TJclThreadPersistent(CL);
8843:   SIRegister_TJclCustomMap(CL);
8844:   SIRegister_TJclBitmap32(CL);
8845:   SIRegister_TJclByteMap(CL);
8846:   SIRegister_TJclTransformation(CL);
8847:   SIRegister_TJclLinearTransformation(CL);
8848:   Procedure Stretch(NewWidth,
NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8849:   Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8850:   Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8851:   Function GetAntialiasedBitmap( const Bitmap : TBitmap ) : TBitmap
8852:   Procedure BitmapToJpeg( const FileName : string)
8853:   Procedure JpegToBitmap( const FileName : string)
8854:   Function ExtractIconCount( const FileName : string ) : Integer
8855:   Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer ) : HICON
8856:   Function IconToBitmapJ( Icon : HICON ) : HBITMAP
8857:   Procedure
BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8858:   Procedure StretchTransfer(Dst:TJclBitmap32;
DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8859:   Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8860:   Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)
8861:   Function FillGradient( DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
TGradientDirection ) : Boolean;
8862:   Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
RegionBitmapMode:TJclRegionBitmapMode): HRGN
8863:   Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND );
8864:   Procedure ScreenShot1( bm : TBitmap );
8865:   Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8866:   Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8867:   Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8868:   Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8869:   Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8870:   Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8871:   Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8872:   Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArray;Color:TColor32);
8873:   Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TDynDynPointArrayArrayF;Color:TColor32);
8874:   Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32 )
8875:   Procedure IntensityToAlpha( Dst, Src : TJclBitmap32 )
8876:   Procedure Invert( Dst, Src : TJclBitmap32 )
8877:   Procedure InvertRGB( Dst, Src : TJclBitmap32 )
8878:   Procedure ColorToGrayscale( Dst, Src : TJclBitmap32 )
8879:   Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8 )
8880:   Procedure SetGamma( Gamma : Single )
8881: end;
8882:
8883: (*-----*)
8884: procedure SIRegister_JclSynch(CL: TPSPPascalCompiler);
8885: begin
8886:   Function LockedAdd( var Target : Integer; Value : Integer ) : Integer
8887:   Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer ) : Integer
8888:   Function LockedCompareExchangeI( var Target : __Pointer; Exch, Comp : __Pointer ) : Pointer
8889:   Function LockedDec( var Target : Integer ) : Integer
8890:   Function LockedExchange( var Target : Integer; Value : Integer ) : Integer
8891:   Function LockedExchangeAdd( var Target : Integer; Value : Integer ) : Integer
8892:   Function LockedExchangeDec( var Target : Integer ) : Integer
8893:   Function LockedExchangeInc( var Target : Integer ) : Integer
8894:   Function LockedExchangeSub( var Target : Integer; Value : Integer ) : Integer
8895:   Function LockedInc( var Target : Integer ) : Integer
8896:   Function LockedSub( var Target : Integer; Value : Integer ) : Integer
8897:   TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )

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

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8985: procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8986: procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8987: procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8988: procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8989: procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8990: procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8991: procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8992:
8993: procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8994: procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8995: procedure ReadBufferO(Buffer: TObject;Count:LongInt)');
8996: procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
8997: //READBUFFERAC
8998: function InstanceSize: Longint
8999: Procedure FixupResourceHeader( FixupInfo : Integer)
9000: Procedure ReadResHeader
9001:
9002: {$IFDEF DELPHI4UP}
9003: function CopyFrom(Source:TStream;Count:Int64):LongInt
9004: {$ELSE}
9005: function CopyFrom(Source:TStream;Count:Integer):LongInt
9006: {$ENDIF}
9007: RegisterProperty('Position', 'LongInt', iptrw);
9008: RegisterProperty('Size', 'LongInt', iptrw);
9009: end;
9010: end;
9011:
9012:
9013: { **** -----
9014: Unit DMATH - Interface for DMATH.DLL
9015: ----- }
9016: // see more docs/dmath_manual.pdf
9017:
9018: Function InitEval : Integer
9019: Procedure SetVariable( VarName : Char; Value : Float)
9020: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9021: Function Eval( ExpressionString : String) : Float
9022:
9023: unit dmath; //types are in built, others are external in DLL
9024: interface
9025: {$IFDEF DELPHI}
9026: uses
9027:   StdCtrls, Graphics;
9028: {$ENDIF}
9029: { -----
9030:   Types and constants
9031:   ----- }
9032: {$i types.inc}
9033: { -----
9034:   Error handling
9035:   ----- }
9036: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9037: { Sets the error code }
9038: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9039: { Sets error code and default function value }
9040: function MathErr : Integer; external 'dmath';
9041: { Returns the error code }
9042: { -----
9043:   Dynamic arrays
9044:   ----- }
9045: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9046: { Sets the auto-initialization of arrays }
9047: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9048: { Creates floating point vector V[0..Ub] }
9049: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9050: { Creates integer vector V[0..Ub] }
9051: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9052: { Creates complex vector V[0..Ub] }
9053: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9054: { Creates boolean vector V[0..Ub] }
9055: procedure DimStrVector(var V : TStringVector; Ub : Integer); external 'dmath';
9056: { Creates string vector V[0..Ub] }
9057: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9058: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9059: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9060: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9061: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9062: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9063: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9064: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9065: procedure DimStrMatrix(var A : TStringMatrix; Ub1, Ub2 : Integer); external 'dmath';
9066: { Creates string matrix A[0..Ub1, 0..Ub2] }
9067: { -----
9068:   Minimum, maximum, sign and exchange
9069:   ----- }
9070: function FMin(X, Y : Float) : Float; external 'dmath';
9071: { Minimum of 2 reals }
9072: function FMax(X, Y : Float) : Float; external 'dmath';
9073: { Maximum of 2 reals }

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9074: function IMin(X, Y : Integer) : Integer; external 'dmath';
9075: { Minimum of 2 integers }
9076: function IMax(X, Y : Integer) : Integer; external 'dmath';
9077: { Maximum of 2 integers }
9078: function Sgn(X : Float) : Integer; external 'dmath';
9079: { Sign (returns 1 if X = 0) }
9080: function Sgn0(X : Float) : Integer; external 'dmath';
9081: { Sign (returns 0 if X = 0) }
9082: function DSgn(A, B : Float) : Float; external 'dmath';
9083: { Sgn(B) * |A| }
9084: procedure FSwap(var X, Y : Float); external 'dmath';
9085: { Exchange 2 reals }
9086: procedure ISwap(var X, Y : Integer); external 'dmath';
9087: { Exchange 2 integers }
9088: { -----
9089:   Rounding functions
9090: ----- }
9091: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9092: { Rounds X to N decimal places }
9093: function Ceil(X : Float) : Integer; external 'dmath';
9094: { Ceiling function }
9095: function Floor(X : Float) : Integer; external 'dmath';
9096: { Floor function }
9097: { -----
9098:   Logarithms, exponentials and power
9099: ----- }
9100: function Expo(X : Float) : Float; external 'dmath';
9101: { Exponential }
9102: function Exp2(X : Float) : Float; external 'dmath';
9103: { 2^X }
9104: function Exp10(X : Float) : Float; external 'dmath';
9105: { 10^X }
9106: function Log(X : Float) : Float; external 'dmath';
9107: { Natural log }
9108: function Log2(X : Float) : Float; external 'dmath';
9109: { Log, base 2 }
9110: function Log10(X : Float) : Float; external 'dmath';
9111: { Decimal log }
9112: function LogA(X, A : Float) : Float; external 'dmath';
9113: { Log, base A }
9114: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9115: { X^N }
9116: function Power(X, Y : Float) : Float; external 'dmath';
9117: { X^Y, X >= 0 }
9118: { -----
9119:   Trigonometric functions
9120: ----- }
9121: function Pythag(X, Y : Float) : Float; external 'dmath';
9122: { Sqrt(X^2 + Y^2) }
9123: function FixAngle(Theta : Float) : Float; external 'dmath';
9124: { Set Theta in -Pi..Pi }
9125: function Tan(X : Float) : Float; external 'dmath';
9126: { Tangent }
9127: function ArcSin(X : Float) : Float; external 'dmath';
9128: { Arc sinus }
9129: function ArcCos(X : Float) : Float; external 'dmath';
9130: { Arc cosinus }
9131: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9132: { Angle (Ox, OM) with M(X,Y) }
9133: { -----
9134:   Hyperbolic functions
9135: ----- }
9136: function Sinh(X : Float) : Float; external 'dmath';
9137: { Hyperbolic sine }
9138: function Cosh(X : Float) : Float; external 'dmath';
9139: { Hyperbolic cosine }
9140: function Tanh(X : Float) : Float; external 'dmath';
9141: { Hyperbolic tangent }
9142: function ArcSinh(X : Float) : Float; external 'dmath';
9143: { Inverse hyperbolic sine }
9144: function ArcCosh(X : Float) : Float; external 'dmath';
9145: { Inverse hyperbolic cosine }
9146: function ArcTanh(X : Float) : Float; external 'dmath';
9147: { Inverse hyperbolic tangent }
9148: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9149: { Sinh & Cosh }
9150: { -----
9151:   Gamma function and related functions
9152: ----- }
9153: function Fact(N : Integer) : Float; external 'dmath';
9154: { Factorial }
9155: function SgnGamma(X : Float) : Integer; external 'dmath';
9156: { Sign of Gamma function }
9157: function Gamma(X : Float) : Float; external 'dmath';
9158: { Gamma function }
9159: function LnGamma(X : Float) : Float; external 'dmath';
9160: { Logarithm of Gamma function }
9161: function Stirling(X : Float) : Float; external 'dmath';
9162: { Stirling's formula for the Gamma function }

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9163: function StirLog(X : Float) : Float; external 'dmath';
9164: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9165: function DiGamma(X : Float) : Float; external 'dmath';
9166: { Digamma function }
9167: function TriGamma(X : Float) : Float; external 'dmath';
9168: { Trigamma function }
9169: function IGamma(A, X : Float) : Float; external 'dmath';
9170: { Incomplete Gamma function }
9171: function JGamma(A, X : Float) : Float; external 'dmath';
9172: { Complement of incomplete Gamma function }
9173: function InvGamma(A, P : Float) : Float; external 'dmath';
9174: { Inverse of incomplete Gamma function }
9175: function Erf(X : Float) : Float; external 'dmath';
9176: { Error function }
9177: function Erfc(X : Float) : Float; external 'dmath';
9178: { Complement of error function }
9179: { -----
9180:   Beta function and related functions
9181:   ----- }
9182: function Beta(X, Y : Float) : Float; external 'dmath';
9183: { Beta function }
9184: function IBeta(A, B, X : Float) : Float; external 'dmath';
9185: { Incomplete Beta function }
9186: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9187: { Inverse of incomplete Beta function }
9188: { -----
9189:   Lambert's function
9190:   ----- }
9191: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9192: { -----
9193:   Binomial distribution
9194:   ----- }
9195: function Binomial(N, K : Integer) : Float; external 'dmath';
9196: { Binomial coefficient C(N,K) }
9197: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9198: { Probability of binomial distribution }
9199: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9200: { Cumulative probability for binomial distrib. }
9201: { -----
9202:   Poisson distribution
9203:   ----- }
9204: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9205: { Probability of Poisson distribution }
9206: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9207: { Cumulative probability for Poisson distrib. }
9208: { -----
9209:   Exponential distribution
9210:   ----- }
9211: function DExpo(A, X : Float) : Float; external 'dmath';
9212: { Density of exponential distribution with parameter A }
9213: function FExpo(A, X : Float) : Float; external 'dmath';
9214: { Cumulative probability function for exponential dist. with parameter A }
9215: { -----
9216:   Standard normal distribution
9217:   ----- }
9218: function DNorm(X : Float) : Float; external 'dmath';
9219: { Density of standard normal distribution }
9220: function FNorm(X : Float) : Float; external 'dmath';
9221: { Cumulative probability for standard normal distrib. }
9222: function PNorm(X : Float) : Float; external 'dmath';
9223: { Prob(|U| > X) for standard normal distrib. }
9224: function InvNorm(P : Float) : Float; external 'dmath';
9225: { Inverse of standard normal distribution }
9226: { -----
9227:   Student's distribution
9228:   ----- }
9229: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9230: { Density of Student distribution with Nu d.o.f. }
9231: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9232: { Cumulative probability for Student distrib. with Nu d.o.f. }
9233: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9234: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9235: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9236: { Inverse of Student's t-distribution function }
9237: { -----
9238:   Khi-2 distribution
9239:   ----- }
9240: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9241: { Density of Khi-2 distribution with Nu d.o.f. }
9242: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9243: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9244: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9245: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9246: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9247: { Inverse of Khi-2 distribution function }
9248: { -----
9249:   Fisher-Snedecor distribution
9250:   ----- }
9251: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';

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9252: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9253: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9254: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9255: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9256: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9257: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9258: { Inverse of Snedecor's F-distribution function }
9259: { -----
9260:   Beta distribution
9261:   ----- }
9262: function DBeta(A, B, X : Float) : Float; external 'dmath';
9263: { Density of Beta distribution with parameters A and B }
9264: function FBeta(A, B, X : Float) : Float; external 'dmath';
9265: { Cumulative probability for Beta distrib. with param. A and B }
9266: { -----
9267:   Gamma distribution
9268:   ----- }
9269: function DGamma(A, B, X : Float) : Float; external 'dmath';
9270: { Density of Gamma distribution with parameters A and B }
9271: function FGamma(A, B, X : Float) : Float; external 'dmath';
9272: { Cumulative probability for Gamma distrib. with param. A and B }
9273: { -----
9274:   Expression evaluation
9275:   ----- }
9276: function InitEval : Integer; external 'dmath';
9277: { Initializes built-in functions and returns their number }
9278: function Eval(ExpressionString : String) : Float; external 'dmath';
9279: { Evaluates an expression at run-time }
9280: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9281: { Assigns a value to a variable }
9282: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9283: { Adds a function to the parser }
9284: { -----
9285:   Matrices and linear equations
9286:   ----- }
9287: procedure GaussJordan(A          : TMatrix;
9288:                         Lb, Ubl, Ub2 : Integer;
9289:                         var Det      : Float); external 'dmath';
9290: { Transforms a matrix according to the Gauss-Jordan method }
9291: procedure LinEq(A          : TMatrix;
9292:                     B          : TVector;
9293:                     Lb, Ub    : Integer;
9294:                     var Det    : Float); external 'dmath';
9295: { Solves a linear system according to the Gauss-Jordan method }
9296: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9297: { Cholesky factorization of a positive definite symmetric matrix }
9298: procedure LU_Decompo(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9299: { LU decomposition }
9300: procedure LU_Solve(A       : TMatrix;
9301:                       B       : TVector;
9302:                       Lb, Ub : Integer;
9303:                       X       : TVector); external 'dmath';
9304: { Solution of linear system from LU decomposition }
9305: procedure QR_Decompo(A       : TMatrix;
9306:                         Lb, Ubl, Ub2 : Integer;
9307:                         R       : TMatrix); external 'dmath';
9308: { QR decomposition }
9309: procedure QR_Solve(Q, R     : TMatrix;
9310:                       B       : TVector;
9311:                       Lb, Ubl, Ub2 : Integer;
9312:                       X       : TVector); external 'dmath';
9313: { Solution of linear system from QR decomposition }
9314: procedure SV_Decompo(A       : TMatrix;
9315:                         Lb, Ubl, Ub2 : Integer;
9316:                         S       : TVector;
9317:                         V       : TMatrix); external 'dmath';
9318: { Singular value decomposition }
9319: procedure SV_SetZero(S     : TVector;
9320:                         Lb, Ub : Integer;
9321:                         Tol    : Float); external 'dmath';
9322: { Set lowest singular values to zero }
9323: procedure SV_Solve(U       : TMatrix;
9324:                       S       : TVector;
9325:                       V       : TMatrix;
9326:                       B       : TVector;
9327:                       Lb, Ubl, Ub2 : Integer;
9328:                       X       : TVector); external 'dmath';
9329: { Solution of linear system from SVD }
9330: procedure SV_Approx(U       : TMatrix;
9331:                       S       : TVector;
9332:                       V       : TMatrix;
9333:                       Lb, Ubl, Ub2 : Integer;
9334:                       A       : TMatrix); external 'dmath';
9335: { Matrix approximation from SVD }
9336: procedure EigenVals(A       : TMatrix;
9337:                         Lb, Ub : Integer;
9338:                         Lambda : TCompVector); external 'dmath';
9339: { Eigenvalues of a general square matrix }
9340: procedure EigenVect(A       : TMatrix;

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

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

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

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

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9697:           var DoF : Integer); external 'dmath';
9698: { Khi-2 test for conformity }
9699: procedure Khi2_Indep(N_lin : Integer;
9700:                         N_col : Integer;
9701:                         Obs : TIntMatrix;
9702:                         var Khi2 : Float;
9703:                         var DoF : Integer); external 'dmath';
9704: { Khi-2 test for independence }
9705: procedure Woolf_Conform(N_cls : Integer;
9706:                           N_estim : Integer;
9707:                           Obs : TIntVector;
9708:                           Calc : TVector;
9709:                           var G : Float;
9710:                           var DoF : Integer); external 'dmath';
9711: { Woolf's test for conformity }
9712: procedure Woolf_Indep(N_lin : Integer;
9713:                         N_col : Integer;
9714:                         Obs : TIntMatrix;
9715:                         var G : Float;
9716:                         var DoF : Integer); external 'dmath';
9717: { Woolf's test for independence }
9718: procedure DimStatClassVector(var C : TStatClassVector;
9719:                               Ub : Integer); external 'dmath';
9720: { Allocates an array of statistical classes: C[0..Ub] }
9721: procedure Distrib(X : TVector;
9722:                      Lb, Ub : Integer;
9723:                      A, B, H : Float;
9724:                      C : TStatClassVector); external 'dmath';
9725: { Distributes an array X[Lb..Ub] into statistical classes }
9726: { -----
9727:   Linear / polynomial regression
9728: ----- }
9729: procedure LinFit(X, Y : TVector;
9730:                      Lb, Ub : Integer;
9731:                      B : TVector;
9732:                      V : TMatrix); external 'dmath';
9733: { Linear regression : Y = B(0) + B(1) * X }
9734: procedure WLinFit(X, Y, S : TVector;
9735:                      Lb, Ub : Integer;
9736:                      B : TVector;
9737:                      V : TMatrix); external 'dmath';
9738: { Weighted linear regression : Y = B(0) + B(1) * X }
9739: procedure SVDFLinFit(X, Y : TVector;
9740:                      Lb, Ub : Integer;
9741:                      SVDTol : Float;
9742:                      B : TVector;
9743:                      V : TMatrix); external 'dmath';
9744: { Unweighted linear regression by singular value decomposition }
9745: procedure WSVDFLinFit(X, Y, S : TVector;
9746:                      Lb, Ub : Integer;
9747:                      SVDTol : Float;
9748:                      B : TVector;
9749:                      V : TMatrix); external 'dmath';
9750: { Weighted linear regression by singular value decomposition }
9751: procedure MulFit(X : TMatrix;
9752:                      Y : TVector;
9753:                      Lb, Ub, Nvar : Integer;
9754:                      ConsTerm : Boolean;
9755:                      B : TVector;
9756:                      V : TMatrix); external 'dmath';
9757: { Multiple linear regression by Gauss-Jordan method }
9758: procedure WMulFit(X : TMatrix;
9759:                      Y, S : TVector;
9760:                      Lb, Ub, Nvar : Integer;
9761:                      ConsTerm : Boolean;
9762:                      B : TVector;
9763:                      V : TMatrix); external 'dmath';
9764: { Weighted multiple linear regression by Gauss-Jordan method }
9765: procedure SVDFit(X : TMatrix;
9766:                      Y : TVector;
9767:                      Lb, Ub, Nvar : Integer;
9768:                      ConsTerm : Boolean;
9769:                      SVDTol : Float;
9770:                      B : TVector;
9771:                      V : TMatrix); external 'dmath';
9772: { Multiple linear regression by singular value decomposition }
9773: procedure WSVDFit(X : TMatrix;
9774:                      Y, S : TVector;
9775:                      Lb, Ub, Nvar : Integer;
9776:                      ConsTerm : Boolean;
9777:                      SVDTol : Float;
9778:                      B : TVector;
9779:                      V : TMatrix); external 'dmath';
9780: { Weighted multiple linear regression by singular value decomposition }
9781: procedure PolFit(X, Y : TVector;
9782:                      Lb, Ub, Deg : Integer;
9783:                      B : TVector;
9784:                      V : TMatrix); external 'dmath';
9785: { Polynomial regression by Gauss-Jordan method }

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

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9875:           Deg1, Deg2 : Integer;
9876:           ConsTerm : Boolean;
9877:           MaxIter : Integer;
9878:           Tol : Float;
9879:           B : TVector;
9880:           V : TMatrix); external 'dmath';
9881: { Unweighted fit of rational fraction }
9882: procedure WFracFit(X, Y, S : TVector;
9883:           Lb, Ub : Integer;
9884:           Deg1, Deg2 : Integer;
9885:           ConsTerm : Boolean;
9886:           MaxIter : Integer;
9887:           Tol : Float;
9888:           B : TVector;
9889:           V : TMatrix); external 'dmath';
9890: { Weighted fit of rational fraction }
9891:
9892: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9893: { Returns the value of the rational fraction at point X }
9894: procedure ExpFit(X, Y : TVector;
9895:           Lb, Ub, Nexp : Integer;
9896:           ConsTerm : Boolean;
9897:           MaxIter : Integer;
9898:           Tol : Float;
9899:           B : TVector;
9900:           V : TMatrix); external 'dmath';
9901: { Unweighted fit of sum of exponentials }
9902: procedure WExpFit(X, Y, S : TVector;
9903:           Lb, Ub, Nexp : Integer;
9904:           ConsTerm : Boolean;
9905:           MaxIter : Integer;
9906:           Tol : Float;
9907:           B : TVector;
9908:           V : TMatrix); external 'dmath';
9909: { Weighted fit of sum of exponentials }
9910: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9911: { Returns the value of the regression function at point X }
9912: procedure IncExpFit(X, Y : TVector;
9913:           Lb, Ub : Integer;
9914:           ConsTerm : Boolean;
9915:           MaxIter : Integer;
9916:           Tol : Float;
9917:           B : TVector;
9918:           V : TMatrix); external 'dmath';
9919: { Unweighted fit of model of increasing exponential }
9920: procedure WIIncExpFit(X, Y, S : TVector;
9921:           Lb, Ub : Integer;
9922:           ConsTerm : Boolean;
9923:           MaxIter : Integer;
9924:           Tol : Float;
9925:           B : TVector;
9926:           V : TMatrix); external 'dmath';
9927: { Weighted fit of increasing exponential }
9928: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9929: { Returns the value of the regression function at point X }
9930: procedure ExplinFit(X, Y : TVector;
9931:           Lb, Ub : Integer;
9932:           MaxIter : Integer;
9933:           Tol : Float;
9934:           B : TVector;
9935:           V : TMatrix); external 'dmath';
9936: { Unweighted fit of the "exponential + linear" model }
9937: procedure WExplinFit(X, Y, S : TVector;
9938:           Lb, Ub : Integer;
9939:           MaxIter : Integer;
9940:           Tol : Float;
9941:           B : TVector;
9942:           V : TMatrix); external 'dmath';
9943: { Weighted fit of the "exponential + linear" model }
9944:
9945: function ExplinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9946: { Returns the value of the regression function at point X }
9947: procedure MichFit(X, Y : TVector;
9948:           Lb, Ub : Integer;
9949:           MaxIter : Integer;
9950:           Tol : Float;
9951:           B : TVector;
9952:           V : TMatrix); external 'dmath';
9953: { Unweighted fit of Michaelis equation }
9954: procedure WMichFit(X, Y, S : TVector;
9955:           Lb, Ub : Integer;
9956:           MaxIter : Integer;
9957:           Tol : Float;
9958:           B : TVector;
9959:           V : TMatrix); external 'dmath';
9960: { Weighted fit of Michaelis equation }
9961: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9962: { Returns the value of the Michaelis equation at point X }
9963: procedure MintFit(X, Y : TVector;

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9964:           Lb, Ub : Integer;
9965:           MintVar : TMintVar;
9966:           Fit_S0 : Boolean;
9967:           MaxIter : Integer;
9968:           Tol : Float;
9969:           B : TVector;
9970:           V : TMatrix); external 'dmath';
9971: { Unweighted fit of the integrated Michaelis equation }
9972: procedure WMintFit(X, Y, S : TVector;
9973:           Lb, Ub : Integer;
9974:           MintVar : TMintVar;
9975:           Fit_S0 : Boolean;
9976:           MaxIter : Integer;
9977:           Tol : Float;
9978:           B : TVector;
9979:           V : TMatrix); external 'dmath';
9980: { Weighted fit of the integrated Michaelis equation }
9981: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9982: { Returns the value of the integrated Michaelis equation at point X }
9983: procedure HillFit(X, Y : TVector;
9984:           Lb, Ub : Integer;
9985:           MaxIter : Integer;
9986:           Tol : Float;
9987:           B : TVector;
9988:           V : TMatrix); external 'dmath';
9989: { Unweighted fit of Hill equation }
9990: procedure WHillFit(X, Y, S : TVector;
9991:           Lb, Ub : Integer;
9992:           MaxIter : Integer;
9993:           Tol : Float;
9994:           B : TVector;
9995:           V : TMatrix); external 'dmath';
9996: { Weighted fit of Hill equation }
9997: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9998: { Returns the value of the Hill equation at point X }
9999: procedure LogiFit(X, Y : TVector;
10000:           Lb, Ub : Integer;
10001:           ConsTerm : Boolean;
10002:           General : Boolean;
10003:           MaxIter : Integer;
10004:           Tol : Float;
10005:           B : TVector;
10006:           V : TMatrix); external 'dmath';
10007: { Unweighted fit of logistic function }
10008: procedure WLogiFit(X, Y, S : TVector;
10009:           Lb, Ub : Integer;
10010:           ConsTerm : Boolean;
10011:           General : Boolean;
10012:           MaxIter : Integer;
10013:           Tol : Float;
10014:           B : TVector;
10015:           V : TMatrix); external 'dmath';
10016: { Weighted fit of logistic function }
10017: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10018: { Returns the value of the logistic function at point X }
10019: procedure PKFit(X, Y : TVector;
10020:           Lb, Ub : Integer;
10021:           MaxIter : Integer;
10022:           Tol : Float;
10023:           B : TVector;
10024:           V : TMatrix); external 'dmath';
10025: { Unweighted fit of the acid-base titration curve }
10026: procedure WPKFit(X, Y, S : TVector;
10027:           Lb, Ub : Integer;
10028:           MaxIter : Integer;
10029:           Tol : Float;
10030:           B : TVector;
10031:           V : TMatrix); external 'dmath';
10032: { Weighted fit of the acid-base titration curve }
10033: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10034: { Returns the value of the acid-base titration function at point X }
10035: procedure PowFit(X, Y : TVector;
10036:           Lb, Ub : Integer;
10037:           MaxIter : Integer;
10038:           Tol : Float;
10039:           B : TVector;
10040:           V : TMatrix); external 'dmath';
10041: { Unweighted fit of power function }
10042: procedure WPowFit(X, Y, S : TVector;
10043:           Lb, Ub : Integer;
10044:           MaxIter : Integer;
10045:           Tol : Float;
10046:           B : TVector;
10047:           V : TMatrix); external 'dmath';
10048: { Weighted fit of power function }
10049:
10050: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10051: { Returns the value of the power function at point X }
10052: procedure GammaFit(X, Y : TVector;

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

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10142: {$ENDIF}
10143: { -----
10144:   BGI / Delphi graphics
10145: ----- }
10146: function InitGraphics
10147: {$IFDEF DELPHI}
10148: (Width, Height : Integer) : Boolean;
10149: {$ELSE}
10150: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10151: { Enters graphic mode }
10152: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10153:                         X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10154: { Sets the graphic window }
10155: procedure SetOxScale(Scale           : TScale;
10156:                         OxMin, OxMax, OxStep : Float); external 'dmath';
10157: { Sets the scale on the Ox axis }
10158: procedure SetOyScale(Scale           : TScale;
10159:                         OyMin, OyMax, OyStep : Float); external 'dmath';
10160: { Sets the scale on the Oy axis }
10161: procedure GetOxScale(var Scale      : TScale;
10162:                         var OxMin, OxMax, OxStep : Float); external 'dmath';
10163: { Returns the scale on the Ox axis }
10164: procedure GetOyScale(var Scale      : TScale;
10165:                         var OyMin, OyMax, OyStep : Float); external 'dmath';
10166: { Returns the scale on the Oy axis }
10167: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10168: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10169: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10170: function GetGraphTitle : string; external 'dmath'; { Returns the title for the graph }
10171: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10172: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10173: {$IFNDEF DELPHI}
10174: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10175: { Sets the font for the main graph title }
10176: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10177: { Sets the font for the Ox axis (title and labels) }
10178: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10179: { Sets the font for the Oy axis (title and labels) }
10180: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10181: { Sets the font for the legends }
10182: procedure SetClipping(Clip : Boolean); external 'dmath';
10183: { Determines whether drawings are clipped at the current viewport
10184:   boundaries, according to the value of the Boolean parameter Clip }
10185: {$ENDIF}
10186: procedure PlotOxAxis({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10187: { Plots the horizontal axis }
10188: procedure PlotOyAxis({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10189: { Plots the vertical axis }
10190: procedure PlotGrid({$IFDEF DELPHI}Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10191: { Plots a grid on the graph }
10192: procedure WriteGraphTitle({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10193: { Writes the title of the graph }
10194: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10195: { Sets the maximum number of curves and re-initializes their parameters }
10196: procedure SetPointParam
10197: {$IFDEF DELPHI}
10198: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10199: {$ELSE}
10200: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10201: { Sets the point parameters for curve # CurvIndex }
10202: procedure SetLineParam
10203: {$IFDEF DELPHI}
10204: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10205: {$ELSE}
10206: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10207: { Sets the line parameters for curve # CurvIndex }
10208: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10209: { Sets the legend for curve # CurvIndex }
10210: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10211: { Sets the step for curve # CurvIndex }
10212: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10213: procedure GetPointParam
10214: {$IFDEF DELPHI}
10215: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10216: {$ELSE}
10217: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10218: { Returns the point parameters for curve # CurvIndex }
10219: procedure GetlineParam
10220: {$IFDEF DELPHI}
10221: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10222: {$ELSE}
10223: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10224: { Returns the line parameters for curve # CurvIndex }
10225: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10226: { Returns the legend for curve # CurvIndex }
10227: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10228: { Returns the step for curve # CurvIndex }
10229: {$IFDEF DELPHI}
10230: procedure PlotPoint(Canvas      : TCanvas;

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10231:           X, Y      : Float; CurvIndex : Integer); external 'dmath';
10232: {$ELSE}
10233: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10234: {$ENDIF}
10235: { Plots a point on the screen }
10236: procedure PlotCurve({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10237:           X, Y      : TVector;
10238:           Lb, Ub, CurvIndex : Integer); external 'dmath';
10239: { Plots a curve }
10240: procedure PlotCurveWithErrorBars({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10241:           X, Y, S      : TVector;
10242:           Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10243: { Plots a curve with error bars }
10244: procedure PlotFunc({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10245:           Func      : TFunc;
10246:           Xmin, Xmax : Float;
10247:           {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10248:           CurvIndex : Integer); external 'dmath';
10249: { Plots a function }
10250: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10251:           NCurv    : Integer;
10252:           ShowPoints, ShowLines : Boolean); external 'dmath';
10253: { Writes the legends for the plotted curves }
10254: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10255:           Nx, Ny, Nc : Integer;
10256:           X, Y, Z      : TVector;
10257:           F          : TMatrix); external 'dmath';
10258: { Contour plot }
10259: function Xpixel(X : Float):Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10260: function Ypixel(Y : Float):Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10261: function Xuser(X : Integer):Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10262: function Yuser(Y : Integer):Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10263: {$IFDEF DELPHI}
10264: procedure LeaveGraphics; external 'dmath';
10265: { Quits graphic mode }
10266: {$ENDIF}
10267: {-----
10268: LaTeX graphics
10269: {-----
10270: function TeX_InitGraphics(FileName : String; PgWidth, PgHeight : Integer;
10271:                           Header : Boolean); external 'dmath';
10272: { Initializes the LaTeX file }
10273: procedure TeX_SetWindow(Xl, X2, Yl, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10274: { Sets the graphic window }
10275: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10276: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10277: { Sets the scale on the Ox axis }
10278: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10279: { Sets the scale on the Oy axis }
10280: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10281: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10282: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10283: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10284: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10285: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10286: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph
10287: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10288: { Sets the maximum number of curves and re-initializes their parameters }
10289: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10290: { Sets the point parameters for curve # CurvIndex }
10291: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10292:                           Width : Float; Smooth : Boolean); external 'dmath';
10293: { Sets the line parameters for curve # CurvIndex }
10294: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10295: { Sets the legend for curve # CurvIndex }
10296: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10297: { Sets the step for curve # CurvIndex }
10298: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10299: { Plots a curve }
10300: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10301:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10302: { Plots a curve with error bars }
10303: procedure TeX_PlotFunc(Func : TFunc; Xl, X2 : Float;
10304:                           Npt : Integer; CurvIndex : Integer); external 'dmath';
10305: { Plots a function }
10306: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10307: { Writes the legends for the plotted curves }
10308: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10309: { Contour plot }
10310: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10311: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10312:
10313: *****unit uPSI_SynPdf;
10314: Function RawUTF8ToPDFString( const Value : RawUTF8) : PDFString
10315: Function _DateTimeToPDFDate( ADate : TDateTime) : TPdfDate
10316: Function _PDFDateToDate( const AText : TPdfDate) : TDateTime
10317: Function PdfRect( Left, Top, Right, Bottom : Single) : TPdfRect;
10318: Function PdfRect1( const Box : TPdfBox) : TPdfRect;
10319: Function PdfBox( Left, Top, Width, Height : Single) : TPdfBox

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10320: //Function _GetCharCount( Text : PAnsiChar ) : integer
10321: //Procedure L2R( W : PWideChar; L : integer)
10322: Function PdfCoord( MM : single ) : integer
10323: Function CurrentPrinterPageSize : TPDFPaperSize
10324: Function CurrentPrinterRes : TPoint
10325: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10326: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10327: Procedure GDICommentLink( MetaHandle:HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10328: Const('Usp10','String 'usp10.dll
10329: AddTypes('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10330: 'fcharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10331: AddTypes('TScriptState_set', 'set of TScriptState_enum
10332: //*****+
10333:
10334: procedure SIRегистre_PMrand(CL: TPSPascalCompiler); //ParkMiller
10335: begin
10336:   Procedure PMrandomize( I : word )
10337:     Function PMrandom : longint
10338:     Function Rrand : extended
10339:     Function Irand( N : word ) : word
10340:     Function Brand( P : extended ) : boolean
10341:     Function Nrand : extended
10342:   end;
10343:
10344: procedure SIRегистre_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10345: begin
10346:   Function Endian( x : LongWord ) : LongWord
10347:   Function Endian64( x : Int64 ) : Int64
10348:   Function spRol( x : LongWord; y : Byte ) : LongWord
10349:   Function spRor( x : LongWord; y : Byte ) : LongWord
10350:   Function Ror64( x : Int64; y : Byte ) : Int64
10351: end;
10352:
10353: procedure SIRегистre_MapReader(CL: TPSPascalCompiler);
10354: begin
10355:   Procedure ClearModules
10356:   Procedure ReadMapFile( Fname : string )
10357:     Function AddressInfo( Address : dword ) : string
10358:   end;
10359:
10360: procedure SIRегистre_LibTar(CL: TPSPascalCompiler);
10361: begin
10362:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwner
10363:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWrite
10364:   +'teByOther, tpExecuteByOther )
10365:   TTarPermissions', 'set of TTarPermission
10366:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10367:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader;
10368:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10369:   TTarModes', 'set of TTarMode
10370:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDA'
10371:   +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10372:   +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING; '
10373:   +' ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE
10374:   +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10375:   SIRегистre_TTarArchive(CL);
10376:   SIRегистre_TTarWriter(CL);
10377:   Function PermissionString( Permissions : TTarPermissions ) : STRING
10378:   Function ConvertFilename( Filename : STRING ) : STRING
10379:   Function FileTimeGMT( FileName : STRING ) : TDateTime;
10380:   Function FileTimeGMT1( SearchRec : TSearchRec ) : TDateTime;
10381:   Procedure ClearDirRec( var DirRec : TTarDirRec )
10382: end;
10383:
10384:
10385: //*****+
10386: procedure SIRегистre_TlHelp32(CL: TPSPascalCompiler);
10387: begin
10388:   Const('MAX_MODULE_NAME32','LongInt'( 255 );
10389:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD ) : THandle
10390:   Const('TH32CS_SNAPHEAPLIST','LongWord( $00000001 );
10391:   Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002 );
10392:   Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004 );
10393:   Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008 );
10394:   Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000 );
10395:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10396:   AddTypes('HEAPLIST32', 'tagHEAPLIST32
10397:   AddTypes('THeapList32', 'tagHEAPLIST32
10398:   Const('HF32_DEFAULT','LongInt'( 1 );
10399:   Const('HF32_SHARED','LongInt'( 2 );
10400:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10401:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32 ) : BOOL
10402:   AddTypes('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAdr
10403:   +'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10404:   +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10405:   AddTypes('HEAPENTRY32', 'tagHEAPENTRY32
10406:   AddTypes('THeapEntry32', 'tagHEAPENTRY32
10407:   Const('LF32_FIXED','LongWord').SetUInt( $00000001 );
10408:   Const('LF32_FREE','LongWord').SetUInt( $00000002 );

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10409: Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004 );
10410: Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD ) : BOOL
10411: Function Heap32Next( var lphe : THeapEntry32 ) : BOOL
10412: DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10413: AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10414: +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10415: +'aPri : Longint; dwFlags : DWORD; end
10416: AddTypeS('TTHREADENTRY32', 'tagTHREADENTRY32'
10417: AddTypeS('TThreadEntry32', 'tagTHREADENTRY32'
10418: Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10419: Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10420: end;
10421: Const('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10422: Const('EW_REBOOTSYSTEM','LongWord($0043);
10423: Const('EW_EXITANDEXECAPP','LongWord($0044);
10424: Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD( $80000000 ) );
10425: Const('EWX_LOGOFF','LongInt'( 0 );
10426: Const('EWX_SHUTDOWN','LongInt'( 1 );
10427: Const('EWX_REBOOT','LongInt'( 2 );
10428: Const('EWX_FORCE','LongInt'( 4 );
10429: Const('EWX_POWEROFF','LongInt'( 8 );
10430: Const('EWX_FORCEIFHUNG','LongWord').SetUInt( $10 );
10431: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10432: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10433: Function GET_MOUSEKEY_LPARAM( const lParam : LongInt ) : Word
10434: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10435: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10436: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10437: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10438: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10439: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10440: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10441: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10442: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
10443: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
10444: Function GetDesktopWindow : HWND
10445: Function GetParent( hWnd : HWND ) : HWND
10446: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND
10447: Function GetTopWindow( hWnd : HWND ) : HWND
10448: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND
10449: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND
10450: //Delphi DFM
10451: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10452: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string ) : integer
10453: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10454: function GetHighlightersFilter(AHighlighters: TStringList): string;
10455: function GetHighlighterFromExt(AHighlighters: TStringList; Extension: string): TSynCustomHighlighter;
10456: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL
10457: Function OpenIcon( hWnd : HWND ) : BOOL
10458: Function CloseWindow( hWnd : HWND ) : BOOL
10459: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL
10460: Function SetWindowPos( hWnd : HWND; hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UINT ) : BOOL
10461: Function IsWindowVisible( hWnd : HWND ) : BOOL
10462: Function IsIconic( hWnd : HWND ) : BOOL
10463: Function AnyPopup : BOOL
10464: Function BringWindowToFront( hWnd : HWND ) : BOOL
10465: Function IsZoomed( hWnd : HWND ) : BOOL
10466: Function IsWindow( hWnd : HWND ) : BOOL
10467: Function IsMenu( hMenu : HMENU ) : BOOL
10468: Function IsChild( hWndParent, hWnd : HWND ) : BOOL
10469: Function DestroyWindow( hWnd : HWND ) : BOOL
10470: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL
10471: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL
10472: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL
10473: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL
10474: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10475: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10476: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10477:
10478: procedure SIRegister_IDECmdLine(CL: TPSPascalCompiler);
10479: begin
10480: const('ShowSetupDialogOptLong','String '--setup
10481: PrimaryConfPathOptLong','String '--primary-config-path=
10482: PrimaryConfPathOptShort','String '--pcp=
10483: SecondaryConfPathOptLong','String '--secondary-config-path=
10484: SecondaryConfPathOptShort','String '--scp=
10485: NoSplashScreenOptLong','String '--no-splash-screen
10486: NoSplashScreenOptShort','String '--nsc
10487: StartedByStartLazarusOpt','String '--started-by-startlazarus
10488: SkipLastProjectOpt','String '--skip-last-project
10489: DebugLogOpt','String '--debug-log=
10490: DebugLogOptEnable','String '--debug-enable=
10491: LanguageOpt','String '--language=
10492: LazarusDirOpt','String '--lazarusdir=
10493: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10494: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean) : string
10495: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string
10496: Function IsHelpRequested : Boolean
10497: Function IsVersionRequested : boolean

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10498: Function GetLanguageSpecified : string
10499: Function ParamIsOption( ParamIndex : integer; const Option : string) : boolean
10500: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10501: Procedure ParseNoGuiCmdLineParams
10502: Function ExtractCmdLineFilenames : TStrings
10503: end;
10504:
10505:
10506: procedure SIRegister_LazFileUtils(CL: TPSPascalCompiler);
10507: begin
10508:   Function CompareFilenames( const Filenam1, Filenam2 : string) : integer
10509:   Function CompareFilenamesIgnoreCase( const Filenam1, Filenam2 : string) : integer
10510:   Function CompareFileExt( const Filenam, Ext : string; CaseSensitive : boolean) : integer;
10511:   Function CompareFileExt1( const Filenam, Ext : string) : integer;
10512:   Function CompareFilenameStarts( const Filenam1, Filenam2 : string) : integer
10513:   Function CompareFilenames(Filenam1:PChar;Len1:integer; Filenam2:PChar;Len2:integer):integer
10514:   Function CompareFilenamesP( Filenam1, Filenam2 : PChar; IgnoreCase : boolean) : integer
10515:   Function DirPathExists( DirectoryName : string) : boolean
10516:   Function DirectoryIsWritable( const DirectoryName : string) : boolean
10517:   Function ExtractFileNameOnly( const AFilename : string) : string
10518:   Function FilenameIsAbsolute( const TheFilename : string) : boolean
10519:   Function FilenameIsWinAbsolute( const TheFilename : string) : boolean
10520:   Function FilenameIsUnixAbsolute( const TheFilename : string) : boolean
10521:   Function ForceDirectory( DirectoryName : string) : boolean
10522:   Procedure CheckIfFileIsExecutable( const AFilename : string)
10523:   Procedure CheckIfFileIsSymlink( const AFilename : string)
10524:   Function FileIsText( const AFilename : string) : boolean
10525:   Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10526:   Function FilenameIsTrimmed( const TheFilename : string) : boolean
10527:   Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10528:   Function TrimFilename( const AFilename : string) : string
10529:   Function ResolveDots( const AFilename : string) : string
10530:   Procedure ForcePathDelims( var FileName : string)
10531:   Function GetForcedPathDelims( const FileName : string) : String
10532:   Function CleanAndExpandFilename( const FileName : string) : string
10533:   Function CleanAndExpandDirectory( const FileName : string) : string
10534:   Function TrimAndExpandFilename( const FileName : string; const BaseDir : string) : string
10535:   Function TrimAndExpandDirectory( const FileName : string; const BaseDir : string) : string
10536:   Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String) : Boolean
10537:   Function CreateRelativePath( const Filename,BaseDirectory:string; UsePointDirectory:boolean;
AlwaysRequireSharedBaseFolder: Boolean) : string
10538:   Function FileIsInPath( const Filename, Path : string) : boolean
10539:   Function AppendPathDelim( const Path : string) : string
10540:   Function ChompPathDelim( const Path : string) : string
10541:   Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
10542:   Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string) : string
10543:   Function MinimizeSearchPath( const SearchPath : string) : string
10544:   Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
(*Function FileExistsUTF8( const FileName : string) : boolean
10546:   Function FileAgeUTF8( const FileName : string) : Longint
10547:   Function DirectoryExistsUTF8( const Directory : string) : Boolean
10548:   Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
10549:   Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10550:   Function FindNextUTF8( var Rslt : TSearchRec) : Longint
10551:   Procedure FindCloseUTF8( var F : TSearchrec)
10552:   Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
10553:   Function FileGetAttrUTF8( const FileName : String) : Longint
10554:   Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
10555:   Function DeleteFileUTF8( const FileName : String) : Boolean
10556:   Function RenameFileUTF8( const OldName, NewName : String) : Boolean
10557:   Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
10558:   Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
10559:   Function GetCurrentDirUTF8 : String
10560:   Function SetCurrentDirUTF8( const NewDir : String) : Boolean
10561:   Function CreateDirUTF8( const NewDir : String) : Boolean
10562:   Function RemoveDirUTF8( const Dir : String) : Boolean
10563:   Function ForceDirectoriesUTF8( const Dir : string) : Boolean
10564:   Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
10565:   Function FileCreateUTF8( const FileName : string) : THandle;
10566:   Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
10567:   Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal) : THandle;
10568:   Function FileSizeUtf8( const FileName : string) : int64
10569:   Function GetfileDescription( const AFilename : string) : string
10570:   Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
10571:   Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
10572:   Function GetTempFileNameUTF8( const Dir, Prefix : String) : String*)
10573:   Function IsUNCPath( const Path : String) : Boolean
10574:   Function ExtractUNCVolume( const Path : String) : String
10575:   Function ExtractFileRoot( FileName : String) : String
10576:   Function GetDarwinSystemFilename( Filename : string) : string
10577:   Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10578:   Function StrToCmdlineParam( const Param : string) : string
10579:   Function MergeCmdLineParams( ParamList : TStrings) : string
10580:   Procedure InvalidateFileStateCache( const Filename : string)
10581:   Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10582:   Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10583:   Function ReadFileToString( const Filename : string) : string
10584: type

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10585: TCopyFileFlag = ( cffOverwriteFile,
10586:   cffCreateDestDirectory, cffPreserveTime );
10587: TCopyFileFlags = set of TCopyFileFlag;*)
10588: TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10589: TCopyFileFlags', 'set of TCopyFileFlag
10590: Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10591: end;
10592:
10593: procedure SIRegister_lazMasks(CL: TPSPPascalCompiler);
10594: begin
10595:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10596:   SIRegister_TMask(CL);
10597:   SIRegister_TParseStringList(CL);
10598:   SIRegister_TMaskList(CL);
10599:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Boolean
10600:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean) : Boolean
10601:   Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Boolean;
10602:   Function MatchesWindowsMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Boolean;
10603: end;
10604:
10605: procedure SIRegister_JvShellHook(CL: TPSPPascalCompiler);
10606: begin
10607:   //PShellHookInfo', '^TShellHookInfo // will not work
10608:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10609:   SHELLHOOKINFO', 'TShellHookInfo
10610:   LPSHELLHOOKINFO', 'PShellHookInfo
10611:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10612:   SIRegister_TJvShellHook(CL);
10613:   Function InitJvShellHooks : Boolean
10614:   Procedure UnInitJvShellHooks
10615: end;
10616:
10617: procedure SIRegister_JvExControls(CL: TPSPPascalCompiler);
10618: begin
10619:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10620:   '+', dcHasSel, dcWantTab, dcNative )
10621:   TDlgCodes', 'set of TDlgCode
10622:   'dcWantMessage', ' dcWantAllKeys);
10623:   SIRegister_IJvExControl(CL);
10624:   SIRegister_IJvDenySubClassing(CL);
10625:   SIRegister_TStructPtrMessage(CL);
10626:   Procedure SetDotNetBarColors( FocusedColor, UnfocusedColor : TColor)
10627:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10628:   Procedure DrawDotNetBar( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10629:   Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10630:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10631:   Function CreateWMMessage1( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10632:   Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10633:   Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10634:   Function GetFocusedControl( AControl : TControl ) : TWinControl
10635:   Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10636:   Function DlgCodesToDlgc( Value : TDlgCodes ) : Longint
10637:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10638:   Function DispatchChiDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10639:   SIRegister_TJvExControl(CL);
10640:   SIRegister_TJvExWinControl(CL);
10641:   SIRegister_TJvExCustomControl(CL);
10642:   SIRegister_TJvExGraphicControl(CL);
10643:   SIRegister_TJvExHintWindow(CL);
10644:   SIRegister_TJvExPubGraphicControl(CL);
10645: end;
10646:
10647: (*-----*)
10648: procedure SIRegister_EncdDecd(CL: TPSPPascalCompiler);
10649: begin
10650:   Procedure EncodeStream( Input, Output : TStream)
10651:   Procedure DecodeStream( Input, Output : TStream)
10652:   Function EncodeString1( const Input : string) : string
10653:   Function DecodeString1( const Input : string) : string
10654: end;
10655:
10656: (*-----*)
10657: procedure SIRegister_SockAppReg(CL: TPSPPascalCompiler);
10658: begin
10659:   SIRegister_TWebAppRegInfo(CL);
10660:   SIRegister_TWebAppRegList(CL);
10661:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10662:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10663:   Procedure UnregisterWebApp( const AProgID : string)
10664:   Function FindRegisteredWebApp( const AProgID : string) : string
10665:   Function CreateRegistry( InitializeNewFile : Boolean) : TCustomIniFile
10666:   'sUDPPort', 'String 'UDPPort
10667: end;
10668:
10669: procedure SIRegister_PJEnvVars(CL: TPSPPascalCompiler);
10670: begin
10671:   // TStringDynArray', 'array of string
10672:   Function GetEnvVarValue( const VarName : string) : string
10673:   Function SetEnvVarValue( const VarName, VarValue : string) : Integer

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10674: Function DeleteEnvVar( const VarName : string ) : Integer
10675: Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int):Int;
10676: Function ExpandEnvVars( const Str : string ) : string
10677: Function GetAllEnvVars( const Vars : TStrings ) : Integer
10678: Procedure GetAllEnvVarNames( const Names : TStrings );
10679: Function GetAllEnvVarNames1 : TStringDynArray;
10680: Function EnvBlockSize : Integer
10681: TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject)
10682: SIRegister_TPJEnvVarsEnumerator(CL);
10683: SIRegister_TPJEnvVars(CL);
10684: FindClass('TOBJECT'), 'EPJEnvVars
10685: FindClass('TOBJECT'), 'EPJEnvVars
10686: //Procedure Register
10687: end;
10688:
10689: (*-----*)
10690: procedure SIRegister_PJConsoleApp(CL: TPPascalCompiler);
10691: begin
10692: 'cOneSecInMS','LongInt'( 1000);
10693: //'cDefTimeSlice','LongInt'( 50);
10694: //'cDefMaxExecTime',' cOneMinInMS);
10695: 'cAppErrorMask','LongInt'( 1 shl 29);
10696: Function IsApplicationError( const ErrCode : LongWord ) : Boolean
10697: TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10698: TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10699: Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor):TPJConsoleColors;
10700: Function MakeConsoleColors1( const AForeground, ABackground : TColor) : TPJConsoleColors;
10701: Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor) : TPJConsoleColors;
10702: Function MakeSize( const ACX, ACY : LongInt ) : TSize
10703: SIRegister_TPJCustomConsoleApp(CL);
10704: SIRegister_TPJConsoleApp(CL);
10705: end;
10706:
10707: procedure SIRegister_ip_misc(CL: TPPascalCompiler);
10708: begin
10709: INVALID_IP_ADDRESS','LongWord').SetUInt( $ffffffff );
10710: t_encoding', '( uuencode, base64, mime )
10711: Function internet_date( date : TDateTime ) : string
10712: Function lookup_hostname( const hostname : string ) : longint
10713: Function my_hostname : string
10714: Function my_ip_address : longint
10715: Function ip2string( ip_address : longint ) : string
10716: Function resolve_hostname( ip : longint ) : string
10717: Function address_from( const s : string; count : integer ) : string
10718: Function encode_base64( data : TStream ) : TStringList
10719: Function decode_base64( source : TStringList ) : TMemoryStream
10720: Function posn( const s, t : string; count : integer ) : integer
10721: Function poscn( c : char; const s : string; n : integer ) : integer
10722: Function filename_of( const s : string ) : string
10723: //Function trim( const s : string ) : string
10724: //Procedure setlength( var s : string; l : byte)
10725: Function TimeZoneBias : longint
10726: Function eight2seven_quoteprint( const s : string ) : string
10727: Function eight2seven_german( const s : string ) : string
10728: Function seven2eight_quoteprint( const s : string ) : string end;
10729: type in_addr', 'record s_bytes : array[1..4] of byte; end;
10730: Function socketerror : cint
10731: Function fpsocket( domain : cint; xtype : cint; protocol : cint ) : cint
10732: Function fprev( s : cint; buf : __pointer; len : size_t; flags : cint ) : ssize_t
10733: Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint ) : ssize_t
10734: //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen ) : cint
10735: Function fplisten( s : cint; backlog : cint ) : cint
10736: //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint ) : cint
10737: //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen ) : cint
10738: //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen ) : cint
10739: Function NetAddrToStr( Entry : in_addr ) : String
10740: Function HostAddrToStr( Entry : in_addr ) : String
10741: Function StrToHostAddr( IP : String ) : in_addr
10742: Function StrToNetAddr( IP : String ) : in_addr
10743: SOL_SOCKET','LongWord').SetUInt( $ffff );
10744: cint8', 'shortint
10745: cuint8', 'byte
10746: cchar', 'cint8
10747: cschar', 'cint8
10748: cuchar', 'cuint8
10749: cint16', 'smallint
10750: cuint16', 'word
10751: cshort', 'cint16
10752: csshort', 'cint16
10753: cushort', 'cuint16
10754: cint32', 'longint
10755: cuint32', 'longword
10756: cint', 'cint32
10757: csint', 'cint32
10758: cuint', 'cuint32
10759: csigned', 'cint
10760: cunsigned', 'cuint
10761: cint64', 'int64

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10762: clonglong', 'cint64
10763: cslonglong', 'cint64
10764: cbool', 'longbool
10765: cfloat', 'single
10766: cdouble', 'double
10767: clongdouble', 'extended
10768:
10769: procedure SIRegister_uLkJSON(CL: TPSPascalCompiler);
10770: begin
10771:   TlkJSONTypes', '(jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10772:   SIRegister_TlkJSONdotnetclass(CL);
10773:   SIRegister_TlkJSONbase(CL);
10774:   SIRegister_TlkJSONnumber(CL);
10775:   SIRegister_TlkJSONstring(CL);
10776:   SIRegister_TlkJSONboolean(CL);
10777:   SIRegister_TlkJSONnull(CL);
10778:   TlkJSONFuncEnum', 'Procedure ( ElName : string; Ele : TlkJSONba'
10779:     +'se; data : TObject; var Continue : Boolean)
10780:   SIRegister_TlkJSONcustomlist(CL);
10781:   SIRegister_TlkJSONlist(CL);
10782:   SIRegister_TlkJSONobjectmethod(CL);
10783:   TlkHashItem', 'record hash : cardinal; index : Integer; end
10784:   TlkHashFunction', 'Function ( const ws : WideString) : cardinal
10785:   SIRegister_TlkHashTable(CL);
10786:   SIRegister_TlkBalTree(CL);
10787:   SIRegister_TlkJSONobject(CL);
10788:   SIRegister_TlkJSON(CL);
10789:   SIRegister_TlkJSONstreamed(CL);
10790:   Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10791: end;
10792:
10793: procedure SIRegister_ZSysUtils(CL: TPSPascalCompiler);
10794: begin
10795:   TZListSortCompare', 'Function (Item1, Item2 : TObject): Integer
10796:   SIRegister_TZSortedlist(CL);
10797:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10798:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10799:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10800:   //Function MemLCompAnsi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10801:   Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10802:   Function StartsWithl( const Str, SubStr : RawByteString) : Boolean;
10803:   Function EndsWith( const Str, SubStr : WideString) : Boolean;
10804:   Function EndsWithl( const Str, SubStr : RawByteString) : Boolean;
10805:   Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10806:   Function SQLStrToFloatDef1( Str : string; Def : Extended) : Extended;
10807:   Function SQLStrToFloat( const Str : AnsiString) : Extended
10808:   //Function BufferToStr( Buffer : PWideChar; Length : LongInt) : string;
10809:   //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt) : string;
10810:   Function BufferToBytes( Buffer : TObject; Length : LongInt) : TByteDynArray
10811:   Function StrToBoolEx( Str : string) : Boolean
10812:   Function BoolToStrEx( Bool : Boolean) : String
10813:   Function IsIpAddr( const Str : string) : Boolean
10814:   Function zSplitString( const Str, Delimiters : string) : TStrings
10815:   Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10816:   Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10817:   Function ComposeString( List : TStrings; const Delimiter : string) : string
10818:   Function FloatToSQLStr( Value : Extended) : string
10819:   Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10820:   Function SplitStringEx( const Str, Delimiter : string) : TStrings
10821:   Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10822:   Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10823:   Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10824:   Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10825:   Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10826:   Function StrToBytes3( const Value : WideString) : TByteDynArray;
10827:   Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10828:   Function BytesToVar( const Value : TByteDynArray) : Variant
10829:   Function VarToBytes( const Value : Variant) : TByteDynArray
10830:   Function AnsiSQLDateToDate( const Value : string) : TDateTime
10831:   Function TimestampStrToDate( const Value : string) : TDateTime
10832:   Function DateToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10833:   Function EncodeCString( const Value : string) : string
10834:   Function DecodeCString( const Value : string) : string
10835:   Function zReplaceChar( const Source, Target : Char; const Str : string) : string
10836:   Function MemPas( Buffer : PChar; Length : LongInt) : string
10837:   Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10838:   Function EncodesSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10839:   Function FormatsSQLVersion( const SQLVersion : Integer) : String
10840:   Function ZStrToFloat( Value : AnsiChar) : Extended;
10841:   Function ZStrToFloat1( Value : AnsiString) : Extended;
10842:   Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString);
10843:   Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10844:   Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String);
10845:   Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10846:   Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10847:   Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString);
10848:   Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);

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10849: end;
10850:
10851: unit uPSI_ZEncoding;
10852: Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word ) : RawByteString
10853: Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word ) : String
10854: Function ZRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10855: Function ZUnicodeToRaw( const US : WideString; CP : Word ) : RawByteString
10856: Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10857: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10858: Function ZConvertAnsiToUTF8( const Src : AnsiString ) : UTF8String
10859: Function ZConvertUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10860: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10861: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10862: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10863: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10864: Function ZConvertStringToRawWithAutoEncode( const Src: String; const StringCP, RawCP: Word ) : RawByteString
10865: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String
10866: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10867: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP : Word ) : UTF8String
10868: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10869: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP : Word ) : AnsiString
10870: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10871: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word ) : String
10872: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word ) : String
10873: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word ) : WideString
10874: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word ) : WideString
10875: Function ZConvertStringToUnicodeWithAutoEncode( const Src : String; const StringCP : Word ) : WideString
10876: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word ) : RawByteString
10877: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word ) : AnsiString
10878: Function ZMoveAnsiToUTF8( const Src : AnsiString ) : UTF8String
10879: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString
10880: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word ) : UTF8String
10881: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word ) : RawByteString
10882: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString
10883: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word ) : String
10884: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word ) : String
10885: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString
10886: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word ) : String
10887: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String
10888: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word ) : WideString
10889: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word ) : WideString
10890: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word ) : RawByteString
10891: Function ZDefaultSystemCodePage : Word
10892: Function ZCompatibleCodePages( const CP1, CP2 : Word ) : Boolean
10893:
10894:
10895: procedure SIRegister_BoldComUtils(CL: TPPascalCompiler);
10896: begin
10897:   ('RPC_C_AUTHN_LEVEL_DEFAULT','LongInt'( 0 );
10898:   ('RPC_C_AUTHN_LEVEL_NONE','LongInt'( 1 );
10899:   ('RPC_C_AUTHN_LEVEL_CONNECT','LongInt'( 2 );
10900:   ('RPC_C_AUTHN_LEVEL_CALL','LongInt'( 3 );
10901:   ('RPC_C_AUTHN_LEVEL_PKT','LongInt'( 4 );
10902:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY','LongInt'( 5 );
10903:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY','LongInt'( 6 );
10904:   {'alDefault','1 RPC_C_AUTHN_LEVEL_DEFAULT';
10905:   ('alNone','2 RPC_C_AUTHN_LEVEL_NONE';
10906:   ('alConnect','3 RPC_C_AUTHN_LEVEL_CONNECT';
10907:   ('alCall','4 RPC_C_AUTHN_LEVEL_CALL';
10908:   ('alPacket','5 RPC_C_AUTHN_LEVEL_PKT';
10909:   ('alPacketIntegrity','6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY';
10910:   ('alPacketPrivacy','7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY');
10911:   ('RPC_C_IMP_LEVEL_DEFAULT','LongInt'( 0 );
10912:   ('RPC_C_IMP_LEVEL_ANONYMOUS','LongInt'( 1 );
10913:   ('RPC_C_IMP_LEVEL_IDENTIFY','LongInt'( 2 );
10914:   ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt'( 3 );
10915:   ('RPC_C_IMP_LEVEL_DELEGATE','LongInt'( 4 );
10916:   {'ilDefault','0 RPC_C_IMP_LEVEL_DEFAULT';
10917:   ('ilAnonymous','1 RPC_C_IMP_LEVEL_ANONYMOUS';
10918:   ('ilIdentiry','2 RPC_C_IMP_LEVEL_IDENTIFY';
10919:   ('ilImpersonate','3 RPC_C_IMP_LEVEL_IMPERSONATE';
10920:   ('ilDelegate','4 RPC_C_IMP_LEVEL_DELEGATE);
10921:   ('EOAC_NONE','LongWord').SetUInt( $0 );
10922:   ('EOAC_DEFAULT','LongWord').SetUInt( $800 );
10923:   ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1 );
10924:   ('EOAC_STATIC_CLOACKING','LongWord').SetUInt( $20 );
10925:   ('EOAC_DYNAMIC_CLOAKING','LongWord').SetUInt( $40 );
10926:   ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80 );
10927:   ('RPC_C_AUTHN_WINNT','LongInt'( 10 );
10928:   ('RPC_C_AUTHNZ_NONE','LongInt'( 0 );
10929:   ('RPC_C_AUTHNZ_NAME','LongInt'( 1 );
10930:   ('RPC_C_AUTHNZ_DCE','LongInt'( 2 );
10931:   FindClass('TOBJECT'),EBoldCom
10932: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer ) : Boolean
10933: Function BoldMemoryToVariant( const Buffer, BufSize : Integer ) : OleVariant
10934: Function BoldStreamToVariant( Stream : TStream ) : OleVariant
10935: Function BoldStringsToVariant( Strings : TStrings ) : OleVariant
10936: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer ) : Integer
10937: Function BoldVariantToStream( V : OleVariant; Stream : TStream ) : Integer

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10938: Function BoldVariantArrayOfArraysOfStringToStrings( V : OleVariant; Strings : TStrings ) : Integer
10939: Function BoldVariantIsNamedValues( V : OleVariant ) : Boolean
10940: Function BoldCreateNamedValues( const Names:array of string;const Values:array of OleVariant ):OleVariant;
10941: Function BoldGetNamedValue( Data : OleVariant; const Name : string ) : OleVariant
10942: Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant )
10943: Function BoldCreateGUID : TGUID
10944: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult ) : Boolean
10945: Function BoldCreateRemoteComObject( const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out Res:HRes ):Bool;
10946: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint )
10947: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown );
10948: end;
10949: (*-----*)
10950: procedure SIRегистer_BoldIsoDateTime(CL: TPSPascalCompiler);
10951: begin
10952:   Function ParseISODate( s : string ) : TDateTime
10953:   Function ParseISODateTime( s : string ) : TDateTime
10954:   Function ParseISOTime( str : string ) : TDateTime
10955: end;
10956: (*-----*)
10957: procedure SIRегистer_BoldGUIDUtils(CL: TPSPascalCompiler);
10958: begin
10959:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
10960:   Function BoldCreateGUIDWithBracketsAsString : string
10961: end;
10962: (*-----*)
10963: procedure SIRегистer_BoldFileHandler(CL: TPSPascalCompiler);
10964: begin
10965:   FindClass ('TOBJECT ','TBoldFileHandler'
10966:   FindClass ('TOBJECT ','TBoldDiskFileHandler'
10967:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
10968:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
10969:   SIRегистer_TBoldfileHandler(CL);
10970:   SIRегистer_TBoldDiskFileHandler(CL);
10971:   Procedure BoldCloseAllFileHandlers
10972:   Procedure BoldRemoveUnchangedFilesFromEditor
10973:   Function BoldfileHandlerList : TBoldObjectArray
10974:   Function BoldfileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
10975:   OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
10976: end;
10977: (*-----*)
10978: procedure SIRегистer_BoldWinINet(CL: TPSPascalCompiler);
10979: begin
10980:   PCharArr', 'array of PChar
10981:   Function BoldInternetOpen(Agent:String;
10982:   AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
10983:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
10984:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
10985:   NumberOfBytesRead:Card):LongBool;
10986:   Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
10987:   Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
10988:   Cardinal; Reserved : Cardinal ) : LongBool
10989:   Function BoldInternetQueryDataAvailable( hFile : Pointer; var NumberofBytesAvailable : Cardinal; flags :
10990:   Cardinal; Context : Cardinal ) : LongBool
10991:   Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
10992:   : PCharArr; Flags, Context : Cardinal ) : Pointer
10993:   Function BoldHttpSendRequest(hRequest:Ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
10994:   Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
10995:   Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
10996:   Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
10997:   Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
10998:   Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
10999: end;
11000: (*-----*)
11001: procedure SIRегистer_BoldQueryUserDlg(CL: TPSPascalCompiler);
11002: begin
11003:   TBoldQueryResult', '( qrYesAll, qrYes, qrNo, qrNoAll )
11004:   SIRегистer_TfrmBoldQueryUser(CL);
11005:   Function QueryUser( const Title, Query : string ) : TBoldQueryResult
11006: end;
11007: (*-----*)
11008: procedure SIRегистer_BoldQueue(CL: TPSPascalCompiler);
11009: begin
11010:   FindClass ('TOBJECT ','TBoldQueue
11011:   FindClass ('TOBJECT ','TBoldQueueable
11012:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
11013:   SIRегистer_TBoldQueueable(CL);
11014:   Function BoldQueueFinalized : Boolean
11015:   Function BoldInstalledQueue : TBoldQueue
11016: end;
11017: (*-----*)
11018: procedure SIRегистer_Barcod(CL: TPSPascalCompiler);

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11019: begin
11020:   const mmPerInch,'Extended').setExtended( 25.4);
11021:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
11022:     +' bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
11023:     +'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
11024:     +'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
11025:     +'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
11026:   TBarLineType', '( white, black, black_half )
11027:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
11028:   TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st'
11029:     +'pBottomLeft, stpBottomRight, stpBottomCenter )
11030:   TCheckSumMethod', '( csmNone, csmModulo10 )
11031:   SIRегистre_TAsBarcode(CL);
11032:   Function CheckSumModulo10( const data : string ) : string
11033:   Function ConvertMmToPixelsX( const Value : Double ) : Integer
11034:   Function ConvertMmToPixelsY( const Value : Double ) : Integer
11035:   Function ConvertInchToPixelsX( const Value : Double ) : Integer
11036:   Function ConvertInchToPixelsY( const Value : Double ) : Integer
11037: end;
11038:
11039: procedure SIRегистre_Geometry(CL: TPSPascalCompiler); //OpenGL
11040: begin
11041:   THomogeneousByteVector', 'array[0..3] of Byte
11042:   THomogeneousWordVector', 'array[0..3] of Word
11043:   THomogeneousIntVector', 'array[0..3] of Integer
11044:   THomogeneousFltVector', 'array[0..3] of single
11045:   THomogeneousDblVector', 'array[0..3] of double
11046:   THomogeneousExtVector', 'array[0..3] of extended
11047:   TAffineByteVector', 'array[0..2] of Byte
11048:   TAffineWordVector', 'array[0..2] of Word
11049:   TAffineIntVector', 'array[0..2] of Integer
11050:   TAffineFltVector', 'array[0..2] of single
11051:   TAffineDblVector', 'array[0..2] of double
11052:   TAffineExtVector', 'array[0..2] of extended
11053:   THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11054:   THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11055:   THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11056:   THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11057:   THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11058:   THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11059:   TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11060:   TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11061:   TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11062:   TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11063:   TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11064:   TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11065:   TMatrix4b', 'THomogeneousByteMatrix
11066:   TMatrix4w', 'THomogeneousWordMatrix
11067:   TMatrix4i', 'THomogeneousIntMatrix
11068:   TMatrix4f', 'THomogeneousFltMatrix
11069:   TMatrix4d', 'THomogeneousDblMatrix
11070:   TMatrix4e', 'THomogeneousExtMatrix
11071:   TMatrix3b', 'TAffineByteMatrix
11072:   TMatrix3w', 'TAffineWordMatrix
11073:   TMatrix3i', 'TAffineIntMatrix
11074:   TMatrix3f', 'TAffineFltMatrix
11075:   TMatrix3d', 'TAffineDblMatrix
11076:   TMatrix3e', 'TAffineExtMatrix
11077: //PMatrix', '^TMatrix // will not work
11078:   TMatrixGL', 'THomogeneousFltMatrix
11079:   THomogeneousMatrix', 'THomogeneousFltMatrix
11080:   TAffineMatrix', 'TAffineFltMatrix
11081:   TQuaternion', 'record Vector : TVector4f; end
11082:   TRectangle', 'record Left : integer; Top : integer; Width : integer
11083:     +'ger; Height : Integer; end
11084:   TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11085:     +'Z, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11086:     +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11087:   'EPSILON', 'Extended').setExtended( 1E-100);
11088:   'EPSILON2', 'Extended').setExtended( 1E-50);
11089:   Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11090:   Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11091:   Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11092:   Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11093:   Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single) : TAffineVector
11094:   Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11095:   Function VectorAngle( V1, V2 : TAffineVector ) : Single
11096:   Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11097:   Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11098:   Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11099:   Function VectorLength( V : array of Single ) : Single
11100:   Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11101:   Procedure VectorNegate( V : array of Single )
11102:   Function VectorNorm( V : array of Single ) : Single
11103:   Function VectorNormalize( V : array of Single ) : Single
11104:   Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11105:   Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11106:   Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single)
11107:   Procedure VectorScale( V : array of Single; Factor : Single)

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11108: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11109: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11110: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11111: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11112: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11113: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11114: Procedure MatrixAdjoint( var M : TMatrixGL )
11115: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11116: Procedure MatrixAffineTranspose( var M : TAffineMatrix )
11117: Function MatrixDeterminant( M : TMatrixGL ) : Single
11118: Procedure MatrixInvert( var M : TMatrixGL )
11119: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11120: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11121: Procedure MatrixTranspose( var M : TMatrixGL )
11122: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11123: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion
11124: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11125: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single ):TQuaternion
11126: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11127: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
11128: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11129: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11130: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11131: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11132: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f
11133: Function VectorTransform1( V : TVector3f; M : TMatrixGL ) : TVector3f
11134: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11135: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11136: Function MakeAffineVector( V : array of Single ) : TAffineVector
11137: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11138: Function MakeVector( V : array of Single ) : TVectorGL
11139: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11140: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11141: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11142: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11143: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11144: Function ArcCosGL( X : Extended ) : Extended
11145: Function ArcSingL( X : Extended ) : Extended
11146: Function ArcTan2GL( Y, X : Extended ) : Extended
11147: Function CoTanGL( X : Extended ) : Extended
11148: Function DegToRadGL( Degrees : Extended ) : Extended
11149: Function RadToDegGL( Radians : Extended ) : Extended
11150: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11151: Function TanGL( X : Extended ) : Extended
11152: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11153: Function Turn1( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11154: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11155: Function Pitch1( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11156: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11157: Function Roll1( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11158: end;
11159:
11160:
11161: procedure SIRegister_JclRegistry(CL: TPSPPascalCompiler);
11162: begin
11163:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11164:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11165:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11166:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11167:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11168:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11169:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11170:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11171:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11172:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11173:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11174:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11175:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11176:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11177:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11178:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11179:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11180:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11181:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11182:   AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11183:             +'RunOnce, ekServiceRun, ekServiceRunOnce )'
11184:             +AddClassN(FindClass('TOBJECT'), 'EJclRegistryError'
11185:             +Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11186:             +Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11187:             +Function RegSaveList( const RootKey:HKEY;const Key:string; const ListName:string;const
11188:             +Items:TStrings):Bool;
11189:             +Function RegLoadList( const RootKey:HKEY;const Key:string;const ListName:string;const
11190:             +SaveTo:TStrings):Bool;
11191:             +Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11192:   procedure SIRegister_JclCOM(CL: TPSPPascalCompiler);
11193:   begin
11194:     CLSID_StdComponentCategoriesMgr', 'GUID '{0002E005-0000-0000-C000-000000000046}

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11195: CATID_SafeForInitializing', 'TGUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11196: CATID_SafeForScripting', 'TGUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11197: icMAX_CATEGORY_DESC_LEN', 'LongInt'( 128);
11198: FindClass('TOBJECT'), 'EInvalidParam
11199: Function IsDCOMInstalled : Boolean
11200: Function IsDCOMEnabled : Boolean
11201: Function GetDCOMVersion : string
11202: Function GetMDACVersion : string
11203: Function GetMDACVersion2 : string
11204: Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HRESULT;
11205: Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var stm:IStream):HRESULT;
11206: Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HRESULT;
11207: Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream):HRESULT;
11208: Function MarshalInterMachineInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HRESULT;
11209: Function CreateComponentCategory( const CatID : TGUID; const sDescription : string) : HRESULT
11210: Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HRESULT
11211: Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HRESULT
11212: Function ResetIStreamToStart( Stream : IStream) : Boolean
11213: Function SizeOfIStreamContents( Stream : IStream) : Largeint
11214: Function StreamToVariantArray( Stream : TStream) : OleVariant;
11215: Function StreamToVariantArrayl( Stream : IStream) : OleVariant;
11216: Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream);
11217: Procedure VariantArrayToStreaml( VarArray : OleVariant; var Stream : IStream);
11218: end;
11219:
11220:
11221: procedure SIRegister_JclUnitConv_mX2(CL: TPSPascalCompiler);
11222: begin
11223: Const ('CelsiusFreezingPoint','Extended').setExtended( 0.0);
11224: FahrenheitFreezingPoint,'Extended').setExtended( 32.0);
11225: KelvinFreezingPoint,'Extended').setExtended( 273.15);
11226: CelsiusAbsoluteZero','Extended').setExtended( - 273.15);
11227: FahrenheitAbsoluteZero','Extended').setExtended( - 459.67);
11228: KelvinAbsoluteZero','Extended').setExtended( 0.0);
11229: DegPerCycle','Extended').setExtended( 360.0);
11230: DegPerGrad','Extended').setExtended( 0.9);
11231: DegPerRad','Extended').setExtended( 57.295779513082320876798154814105);
11232: GradPerCycle','Extended').setExtended( 400.0);
11233: GradPerDeg','Extended').setExtended( 1.11111111111111111111111111111111);
11234: GradPerRad','Extended').setExtended( 63.661977236758134307553505349006);
11235: RadPerCycle','Extended').setExtended( 6.283185307179586476925286766559);
11236: RadPerDeg','Extended').setExtended( 0.017453292519943295769236907684886);
11237: RadPerGrad','Extended').setExtended( 0.015707963267948966192313216916398);
11238: CyclePerDeg','Extended').setExtended( 0.002777777777777777777777777777777778);
11239: CyclePerGrad','Extended').setExtended( 0.0025);
11240: CyclePerRad','Extended').setExtended( 0.15915494309189533576888376337251);
11241: ArcMinutesPerDeg','Extended').setExtended( 60.0);
11242: ArcSecondsPerArcMinute','Extended').setExtended( 60.0);
11243: Function HowAOneLinerCanBiteYou( const Step, Max : Longint) : Longint
11244: Function MakePercentage( const Step, Max : Longint) : Longint
11245: Function CelsiusToKelvin( const T : double) : double
11246: Function CelsiusToFahrenheit( const T : double) : double
11247: Function KelvinToCelsius( const T : double) : double
11248: Function KelvinToFahrenheit( const T : double) : double
11249: Function FahrenheitToCelsius( const T : double) : double
11250: Function FahrenheitToKelvin( const T : double) : double
11251: Function CycleToDeg( const Cycles : double) : double
11252: Function CycleToGrad( const Cycles : double) : double
11253: Function CycleToRad( const Cycles : double) : double
11254: Function DegToCycle( const Degrees : double) : double
11255: Function DegToGrad( const Degrees : double) : double
11256: Function DegToRad( const Degrees : double) : double
11257: Function GradToCycle( const Grads : double) : double
11258: Function GradToDeg( const Grads : double) : double
11259: Function GradToRad( const Grads : double) : double
11260: Function RadToCycle( const Radians : double) : double
11261: Function RadToDeg( const Radians : double) : double
11262: Function RadToGrad( const Radians : double) : double
11263: Function DmsToDeg( const D, M : Integer; const S : double) : double
11264: Function DmsToRad( const D, M : Integer; const S : double) : double
11265: Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double)
11266: Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal) : string
11267: Procedure CartesianToPolar( const X, Y : double; out R, Phi : double)
11268: Procedure PolarToCartesian( const R, Phi : double; out X, Y : double)
11269: Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double)
11270: Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double)
11271: Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double)
11272: Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double)
11273: Function CmToInch( const Cm : double) : double
11274: Function InchToCm( const Inch : double) : double
11275: Function FeetToMetre( const Feet : double) : double
11276: Function MetreToFeet( const Metre : double) : double
11277: Function YardToMetre( const Yard : double) : double
11278: Function MetreToYard( const Metre : double) : double
11279: Function NmToKm( const Nm : double) : double
11280: Function KmToNm( const Km : double) : double

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11281: Function KmToSm( const Km : double) : double
11282: Function SmToKm( const Sm : double) : double
11283: Function LitreToGalUs( const Litre : double) : double
11284: Function GalUsToLitre( const GalUs : double) : double
11285: Function GalUsToGalCan( const GalUs : double) : double
11286: Function GalCanToGalUs( const GalCan : double) : double
11287: Function GalUsToGalUk( const GalUs : double) : double
11288: Function GalUkToGalUs( const GalUk : double) : double
11289: Function LitreToGalCan( const Litre : double) : double
11290: Function GalCanToLitre( const GalCan : double) : double
11291: Function LitreToGalUk( const Litre : double) : double
11292: Function GalUkToLitre( const GalUk : double) : double
11293: Function KgToLb( const Kg : double) : double
11294: Function LbToKg( const Lb : double) : double
11295: Function KgToOz( const Kg : double) : double
11296: Function OzToKg( const Oz : double) : double
11297: Function CwtUsToKg( const Cwt : double) : double
11298: Function CwtUkToKg( const Cwt : double) : double
11299: Function KaratToKg( const Karat : double) : double
11300: Function KgToCwtUs( const Kg : double) : double
11301: Function KgToCwtUk( const Kg : double) : double
11302: Function KgToKarat( const Kg : double) : double
11303: Function KgToSton( const Kg : double) : double
11304: Function KgToLton( const Kg : double) : double
11305: Function StonToKg( const Ston : double) : double
11306: Function LtonToKg( const Lton : double) : double
11307: Function QrUsToKg( const Qr : double) : double
11308: Function QrUkToKg( const Qr : double) : double
11309: Function KgToQrUs( const Kg : double) : double
11310: Function KgToQrUk( const Kg : double) : double
11311: Function PascalToBar( const Pa : double) : double
11312: Function PascalToAt( const Pa : double) : double
11313: Function PascalToTorr( const Pa : double) : double
11314: Function BarToPascal( const Bar : double) : double
11315: Function AtToPascal( const At : double) : double
11316: Function TorrToPascal( const Torr : double) : double
11317: Function KnotToMs( const Knot : double) : double
11318: Function HpElectricToWatt( const HpE : double) : double
11319: Function HpMetricToWatt( const HpM : double) : double
11320: Function MsToKnot( const ms : double) : double
11321: Function WattToHpElectric( const W : double) : double
11322: Function WattToHpMetric( const W : double) : double
11323: function getBigPI: string; //PI of 1000 numbers
11324:
11325: procedure SIRegister_devutils(CL: TPSPPascalCompiler);
11326: begin
11327:   Function CDExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11328:   Procedure CDCopyFile( const FileName, DestName : string)
11329:   Procedure CDMoveFile( const FileName, DestName : string)
11330:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11331:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11332:   Function CDGetTempDir : string
11333:   Function CDGetFileSize( FileName : string) : longint
11334:   Function GetFileTime( FileName : string) : longint
11335:   Function GetShortName( FileName : string) : string
11336:   Function GetFullName( FileName : string) : string
11337:   Function WinReboot : boolean
11338:   Function WinDir : String
11339:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11340:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11341:   Function devExecutor : TdevExecutor
11342: end;
11343:
11344: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11345: begin
11346:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7);
11347:   Procedure Associate( Index : integer)
11348:   Procedure UnAssociate( Index : integer)
11349:   Function IsAssociated( Index : integer) : boolean
11350:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11351:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string)
11352:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11353:   procedure RefreshIcons;
11354:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11355:   function MergColor(Colors: Array of TColor): TColor;
11356:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11357:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11358:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11359:   function GetInverseColor(AColor: TColor): TColor;
11360:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11361:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer; ShadowColor: TColor);
11362:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11363:   Procedure GetSystemMenuFont(Font: TFont);
11364: end;
11365:
11366: //*****unit uPSI_JvHLParse;*****
11367: function IsStringConstant(const St: string): Boolean;
11368: function IsIntConstant(const St: string): Boolean;
11369: function IsRealConstant(const St: string): Boolean;

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11370: function IsIdentifier(const ID: string): Boolean;
11371: function GetStringValue(const St: string): string;
11372: procedure ParseString(const S: string; Ss: TStrings);
11373: function IsStringConstantW(const St: WideString): Boolean;
11374: function IsIntConstantW(const St: WideString): Boolean;
11375: function IsRealConstantW(const St: WideString): Boolean;
11376: function IsIdentifierW(const ID: WideString): Boolean;
11377: function GetStringValueW(const St: WideString): WideString;
11378: procedure ParseStringW(const S: WideString; Ss: TStrings);
11379:
11380:
11381: //*****unit uPSI_JclMapi;*****
11382:
11383: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11384: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11385: Function JclSimpleBringUpSendMailDialog(const ASubject, ABody:string;const AAttach:TFileName;AParentWND:HWnd):Bool
11386: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11387: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11388:
11389: procedure SIRegister_IdNTLM(CL: TPSPascalCompiler);
11390: begin
11391:   //'pdes_key_schedule', '^des_key_schedule // will not work
11392:   Function BuildType1Message( ADomain, AHost : String ) : String
11393:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11394:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass )
11395:   Function FindAuthClass( AuthName : String ) : TIIdAuthenticationClass
11396:   GBase64CodeTable', 'string' ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghiJKLMnopqrstuvwxyz0123456789+
11397:   GXECodeTable', 'string'+0123456789ABCDEFGHIJKLMnopqrstuvwxyz
11398:   GUUECodeTable', 'string`!#$%&'()*,-./0123456789:<=>?@ABCDEFGHIJKLMnopqrstuvwxyz[\]^_
11399: end;
11400:
11401: procedure SIRegister_WDOSocketUtils(CL: TPSPascalCompiler);
11402: begin
11403:   ('IpAny','LongWord').SetUInt( $00000000 );
11404:   IpLoopBack','LongWord').SetUInt( $7F000001 );
11405:   IpBroadcast','LongWord').SetUInt( $FFFFFFFF );
11406:   IpNone','LongWord').SetUInt( $FFFFFFFF );
11407:   PortAny','LongWord( $0000 );
11408:   SocketMaxConnections','LongInt'( 5 );
11409:   TIPAddr , 'LongWord
11410:   TIPRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11411:   Function HostToNetLong( HostLong : LongWord ) : LongWord
11412:   Function HostToNetShort( HostShort : Word ) : Word
11413:   Function NetToHostLong( NetLong : LongWord ) : LongWord
11414:   Function NetToHostShort( NetShort : Word ) : Word
11415:   Function StrToIP( IP : string ) : TIPAddr
11416:   Function IPToStr( IP : TIPAddr ) : string
11417: end;
11418:
11419: (*-----*)
11420: procedure SIRegister_ALSMTPCClient(CL: TPSPascalCompiler);
11421: begin
11422:   TAISmtPCClientAuthType', '( AlsmtpClientAuthNone, alsmtpClientAuth'
11423:     +'hPlain, AlsmtpClientAuthLogin, AlsmtpClientAuthCramMD5, AlsmtpClientAuthCr'
11424:     +'amShal, AlsmtpClientAuthAutoSelect )
11425:   TAISmtPCClientAuthTypeSet', 'set of TAISmtPCClientAuthType
11426:   SIRegister_TAISmtPCClient(CL);
11427: end;
11428:
11429: procedure SIRegister_WDOSPlcUtils(CL: TPSPascalCompiler);
11430: begin
11431:   'TBitNo', 'Integer
11432:   TStByteNo', 'Integer
11433:   TStationNo', 'Integer
11434:   TInOutNo', 'Integer
11435:   TIO', '( EE, AA, NE, NA )
11436:   TBitSet', 'set of TBitNo
11437:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11438:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11439:   TBitAddr', 'LongInt
11440:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11441:   TByteAddr', 'SmallInt
11442:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11443:   Function BitAddr(aIO: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11444:   Function BusBitAddr(aIO:TIO;aInOutNo:TInOutNo;aStat:TStat;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11445:   Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIO:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var aBitNo:TBitNo);
11446:   Function BitAddrToStr( Value : TBitAddr ) : string
11447:   Function StrToBitAddr( const Value : string ) : TBitAddr
11448:   Function ByteAddr( aIO : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11449:   Function BusByteAddr(aIO:TIO;aInOutNo:TInOutNo;aStation:TStationNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TByteAddr
11450:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIO:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11451:   Function ByteAddrToStr( Value : TByteAddr ) : string
11452:   Function StrToByteAddr( const Value : string ) : TByteAddr
11453:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11454:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )

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11455: Function InOutStateToStr( State : TInOutState ) : string
11456: Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11457: Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11458: end;
11459:
11460: procedure SIRegister_WDOSTimers(CL: TPSPascalCompiler);
11461: begin
11462: TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11463: +'if1024, if256, if128, if64, if32, if16, if8, if4, if2 )
11464: Dpm1PmVector', 'Int64
11465: 'DInterval','LongInt'( 1000 );
11466: // 'DEnabled','Boolean')BoolToStr( True );
11467: 'DIntFreq','string' if64
11468: // 'DMessages','Boolean if64';
11469: SIRegister_TwdxCustomTimer(CL);
11470: SIRegister_TwdxTimer(CL);
11471: SIRegister_TwdxRtcTimer(CL);
11472: SIRegister_TCustomIntTimer(CL);
11473: SIRegister_TIntTimer(CL);
11474: SIRegister_TRtcIntTimer(CL);
11475: Function RealNow : TDateTime
11476: Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11477: Function DateTimeToMs( Time : TDateTime ) : LongInt
11478: end;
11479:
11480: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11481: begin
11482: TIIdSyslogPRI', 'Integer
11483: TIIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11484: +'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11485: +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11486: +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11487: +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11488: TIIdSyslogSeverity', '(slEmergency,slAlert,slCritical,slError,slWarning,slNotice,slInformational,slDebug)
11489: SIRegister_TIdSysLogMsgPart(CL);
11490: SIRegister_TIdSysLogMessage(CL);
11491: Function FacilityToString( AFac : TIIdSyslogFacility ) : string
11492: Function SeverityToString( ASec : TIIdSyslogSeverity ) : string
11493: Function NoToSeverity( ASev : Word ) : TIIdSyslogSeverity
11494: Function logSeverityToNo( ASev : TIIdSyslogSeverity ) : Word
11495: Function NoToFacility( AFac : Word ) : TIIdSyslogFacility
11496: Function logFacilityToNo( AFac : TIIdSyslogFacility ) : Word
11497: end;
11498:
11499: procedure SIRegister_TextUtils(CL: TPSPascalCompiler);
11500: begin
11501: 'UWhitespace', 'String '(?:\s*)
11502: Function StripSpaces( const AText : string ) : string
11503: Function CharCount( const AText : string; Ch : Char ) : Integer
11504: Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11505: Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11506: end;
11507:
11508:
11509: procedure SIRegister_ExtPascalUtils(CL: TPSPascalCompiler);
11510: begin
11511: ExtPascalVersion', 'String '0.9.8
11512: AddTypes('TBrower', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11513: +'Opera, brKonqueror, brMobileSafari )
11514: AddTypes('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11515: AddTypeS('TTextProcedure', 'Procedure
11516: Function DetermineBrowser( const UserAgentStr : string ) : TBrower
11517: Function ExtExtract( const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool ):bool;
11518: Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11519: Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11520: Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11521: Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11522: Function StrToJS( const S : string; UseBR : boolean ) : string
11523: Function CaseOf( const S : string; const Cases : array of string ) : integer
11524: Function RCaseOf( const S : string; const Cases : array of string ) : integer
11525: Function EnumToJSString( TypeInfo : PTypeInfo; Value : integer ) : string
11526: Function SetPaddings(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11527: Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool): string;
11528: Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11529: Function IsUpperCase( S : string ) : boolean
11530: Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11531: Function BeautifyCSS( const AStyle : string ) : string
11532: Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11533: Function JSDateToDate( JSDate : string ) : TDateTime
11534: end;
11535:
11536: procedure SIRegister_JclShell(CL: TPSPascalCompiler);
11537: begin
11538: TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11539: TSHDeleteOptions', 'set of TSHDeleteOption
11540: TSHRenameOption', '( roSilent, roRenameOnCollision )
11541: TSHRenameOptions', 'set of TSHRenameOption
11542: Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11543: Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean

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11544: Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11545: TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11546: TEnumFolderFlags', 'set of TEnumFolderFlag
11547: TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11548: +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11549: +'IEnumIdList; Folder : IShellFolder; end
11550: Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11551: Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11552: Procedure SHEnumFolderClose( var F : TEnumFolderRec)
11553: Function SHEnumFolderNext( var F : TEnumFolderRec) : Boolean
11554: Function GetSpecialFolderLocation( const Folder : Integer) : string
11555: Function DisplayPropDialog( const Handle : HWND; const FileName : string) : Boolean;
11556: Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList) : Boolean;
11557: Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint) : Boolean
11558: Function OpenFolder( const Path : string; Parent : HWND) : Boolean
11559: Function OpenSpecialFolder( FolderID : Integer; Parent : HWND) : Boolean
11560: Function SHReallocMem( var P : Pointer; Count : Integer) : Boolean
11561: Function SHAllocMem( out P : Pointer; Count : Integer) : Boolean
11562: Function SHGetMem( var P : Pointer; Count : Integer) : Boolean
11563: Function SHFreeMem( var P : Pointer) : Boolean
11564: Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder) : PItemIdList
11565: Function PathToPidl( const Path : string; Folder : IShellFolder) : PItemIdList
11566: Function PathToPidlBind( const FileName : string; out Folder : IShellFolder) : PItemIdList
11567: Function PidlBindToParent(const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11568: Function PidlCompare( const Pidl1, Pidl2 : PItemIdList) : Boolean
11569: Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList) : Boolean
11570: Function PidlFree( var IdList : PItemIdList) : Boolean
11571: Function PidlGetDepth( const Pidl : PItemIdList) : Integer
11572: Function PidlGetLength( const Pidl : PItemIdList) : Integer
11573: Function PidlGetNext( const Pidl : PItemIdList) : PItemIdList
11574: Function PidlToPath( IdList : PItemIdList) : string
11575: Function StrRetFreeMem( StrRet : TStrRet) : Boolean
11576: Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean) : string
11577: PShellLink', '^TShellLink // will not work
11578: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11579: +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11580: +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11581: Procedure ShellLinkFree( var Link : TShellLink)
11582: Function ShellLinkResolve( const FileName : string; var Link : TShellLink) : HRESULT
11583: Function ShellLinkCreate( const Link : TShellLink; const FileName : string) : HRESULT
11584: Function ShellLinkCreateSystem(const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11585: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon) : Boolean
11586: Function SHDlGetVersion( const FileName : string; var Version : TDllVersionInfo) : Boolean
11587: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal) : HICON
11588: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean) : Boolean
11589: Function OverlayIconShortCut( var Large, Small : HICON) : Boolean
11590: Function OverlayIconShared( var Large, Small : HICON) : Boolean
11591: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList) : string
11592: Function ShellExecEx(const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int):Bool;
11593: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int):Bool;
11594: Function ShellExecAndWait(const FileName:string;const Params:string;const Verb:string;CmdShow:Int):Bool;
11595: Function ShellOpenAs( const FileName : string) : Boolean
11596: Function ShellRasDial( const EntryName : string) : Boolean
11597: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer):Boolean
11598: Function GetFileNameIcon( const FileName : string; Flags : Cardinal) : HICON
11599: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11600: Function GetFileExeType( const FileName : TFileName) : TJclFileExeType
11601: Function ShellFindExecutable( const FileName, DefaultDir : string) : string
11602: Procedure keybd_event( bVk : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD)
11603: Function OemKeyScan( wOemChar : Word) : DWORD
11604: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD)
11605: end;
11606:
11607: procedure SIRegister_cXMLFunctions(CL: TPSPascalCompiler);
11608: begin
11609: xmlVersion', 'String '1.0 FindClass('TOBJECT'),'Exml
11610: //Function xmlValidChar( const Ch : AnsiChar) : Boolean;
11611: Function xmlValidChar1( const Ch : UCS4Char) : Boolean;
11612: Function xmlValidChar2( const Ch : WideChar) : Boolean;
11613: Function xmlIsSpaceChar( const Ch : WideChar) : Boolean;
11614: Function xmlIsLetter( const Ch : WideChar) : Boolean;
11615: Function xmlIsDigit( const Ch : WideChar) : Boolean;
11616: Function xmlIsNameStartChar( const Ch : WideChar) : Boolean;
11617: Function xmlIsNameChar( const Ch : WideChar) : Boolean;
11618: Function xmlIsPubidChar( const Ch : WideChar) : Boolean;
11619: Function xmlValidName( const Text : UnicodeString) : Boolean;
11620: //xmlSpace', 'Char #$20 or #$9 or #$D or #$A';
11621: //Function xmlSkipSpace( var P : PWideChar) : Boolean;
11622: //Function xmlSkipEq( var P : PWideChar) : Boolean;
11623: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString) : Boolean;
11624: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer)
11625: : TUnicodeCodecClass
11625: Function xmlResolveEntityReference( const RefName : UnicodeString) : WideChar
11626: Function xmlTag( const Tag : UnicodeString) : UnicodeString;
11627: Function xmlEndTag( const Tag : UnicodeString) : UnicodeString;
11628: Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString) : UnicodeString;
11629: Function xmlEmptyTag( const Tag, Attr : UnicodeString) : UnicodeString;
11630: Procedure xmlSafeTextInPlace( var Txt : UnicodeString)
11631: Function xmlSafeText( const Txt : UnicodeString) : UnicodeString

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11632: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer):UnicodeString
11633: Function xmlTabIndent( const IndentLevel : Integer) : UnicodeString
11634: Function xmlComment( const Comment : UnicodeString) : UnicodeString
11635: Procedure SelfTestcXMLFunctions
11636: end;
11637: (*-----*)
11638: procedure SIRegister_DepWalkUtils(CL: TPSPascalCompiler);
11639: begin
11640:   Function AWaitCursor : IUnknown
11641:   Function ChangeCursor( NewCursor : TCursor) : IUnknown
11642:   Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean)
11643:   Function YesNo( const ACaption, AMsg : string) : boolean
11644:   Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings)
11645:   Function GetBorlandLibPath( Version : integer; ForDelphi : boolean) : string
11646:   Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean) : string
11647:   Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings)
11648:   Procedure GetSystemPaths( Strings : TStrings)
11649:   Procedure MakeEditNumeric( EditHandle : integer)
11650: end;
11651: (*-----*)
11652: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11653: begin
11654:   AddTypes('TVideoCodec', '(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYY,U9,vcYUV12,vcY8,vcY211)
11655:   'BI_YUY2','LongWord( $32595559);
11656:   'BI_UYVY','LongWord').SetUInt( $59565955);
11657:   'BI_BTUV','LongWord').SetUInt( $50313459);
11658:   'BI_YVU9','LongWord').SetUInt( $39555659);
11659:   'BI_YUV12','LongWord( $30323449);
11660:   'BI_Y8','LongWord').SetUInt( $20203859);
11661:   'BI_Y211','LongWord').SetUInt( $31313259);
11662:   Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec
11663:   Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11664: end;
11665: (*-----*)
11666: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11667: begin
11668:   'WM_USER','LongWord').SetUInt( $0400);
11669:   'WM_CAP_START','LongWord').SetUInt($0400);
11670:   'WM_CAP_END','longword').SetUInt($0400+85);
11671:   //WM_CAP_START+ 85
11672:   Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11673:   Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11674:   Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11675:   Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11676:   Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11677:   Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11678:   Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11679:   Function capSetUserData( hwnd : THandle; lUser : Longint) : Longint
11680:   Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11681:   Function capDriverDisconnect( hwnd : THandle) : LongInt
11682:   Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11683:   Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11684:   Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11685:   Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11686:   Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11687:   Function capfileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11688:   Function capFileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11689:   Function capfileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt) : LongInt
11690:   Function capfileSaveDIB( hwnd : THandle; szName : LongInt) : LongInt
11691:   Function capEditCopy( hwnd : THandle) : LongInt
11692:   Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11693:   Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11694:   Function capGetAudioFormatSize( hwnd : THandle) : LongInt
11695:   Function capDlgVideoFormat( hwnd : THandle) : LongInt
11696:   Function capDlgVideoSource( hwnd : THandle) : LongInt
11697:   Function capDlgVideoDisplay( hwnd : THandle) : LongInt
11698:   Function capDlgVideoCompression( hwnd : THandle) : LongInt
11699:   Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11700:   Function capGetVideoFormatSize( hwnd : THandle) : LongInt
11701:   Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11702:   Function capPreview( hwnd : THandle; f : Word) : LongInt
11703:   Function capPreviewRate( hwnd : THandle; wMS : Word) : LongInt
11704:   Function capOverlay( hwnd : THandle; f : Word) : LongInt
11705:   Function capPreviewScale( hwnd : THandle; f : Word) : LongInt
11706:   Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11707:   Function capSetScrollPos( hwnd : THandle; lpP : LongInt) : Longint
11708:   Function capGrabFrame( hwnd : THandle) : LongInt
11709:   Function capGrabFrameNoStop( hwnd : THandle) : LongInt
11710:   Function capCaptureSequence( hwnd : THandle) : LongInt
11711:   Function capCaptureSequenceNoFile( hwnd : THandle) : LongInt
11712:   Function capCaptureStop( hwnd : THandle) : LongInt
11713:   Function capCaptureAbort( hwnd : THandle) : LongInt
11714:   Function capCaptureSingleFrameOpen( hwnd : THandle) : LongInt
11715:   Function capCaptureSingleFrameClose( hwnd : THandle) : LongInt
11716:   Function capCaptureSingleFrame( hwnd : THandle) : LongInt

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11721: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11722: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11723: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt ) : LongInt
11724: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11725: Function capPaletteOpen( hwnd : THandle; szName : LongInt ) : LongInt
11726: Function capPaletteSave( hwnd : THandle; szName : LongInt ) : LongInt
11727: Function capPalettePaste( hwnd : THandle ) : LongInt
11728: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt ) : LongInt
11729: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt ) : LongInt
11730: //PCapDriverCaps', '^TCapDriverCaps // will not work
11731: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11732: +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11733: +' y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid'
11734: +' eoIn : THANDEl; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11735: //PCapStatus', '^TCapStatus // will not work
11736: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11737: +' fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOIN'
11738: +' T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11739: +' OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11740: +' rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11741: +' ALLETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD; '
11742: +' wNumAudioAllocated : WORD; end
11743: //PCaptureParms', '^TCaptureParms // will not work
11744: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11745: +' UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11746: +' ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11747: +' deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11748: +' Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11749: +' ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11750: +' wMCISearchBar : WORD; dwMCISearchBar : DWORD; fStepCaptureAt2x : BOOL; wSt'
11751: +' epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11752: +' he : BOOL; AVStreamMaster : WORD; end
11753: // PcapInfoChunk', '^TCapInfoChunk // will not work
11754: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11755: 'CONTROLCALLBACK_PREROLL', 'LongInt'(' 1');
11756: 'CONTROLCALLBACK_CAPTURING', 'LongInt'(' 2');
11757: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer ) : THandle
11758: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11759: 'IDS_CAP_BEGIN', 'LongInt'(' 300);
11760: 'IDS_CAP_END', 'LongInt'(' 301);
11761: 'IDS_CAP_INFO', 'LongInt'(' 401);
11762: 'IDS_CAP_OUTOFTMEM', 'LongInt'(' 402);
11763: 'IDS_CAP_FILEEXISTS', 'LongInt'(' 403);
11764: 'IDS_CAP_ERRORPALOPEN', 'LongInt'(' 404);
11765: 'IDS_CAP_ERRORPALSEAVE', 'LongInt'(' 405);
11766: 'IDS_CAP_ERRORDIBSAVE', 'LongInt'(' 406);
11767: 'IDS_CAP_DEFAVIEEXT', 'LongInt'(' 407);
11768: 'IDS_CAP_DEFPALEXT', 'LongInt'(' 408);
11769: 'IDS_CAP_CANTOPEN', 'LongInt'(' 409);
11770: 'IDS_CAP_SEQ_MSGSTART', 'LongInt'(' 410);
11771: 'IDS_CAP_SEQ_MSGSTOP', 'LongInt'(' 411);
11772: 'IDS_CAP_VIDEOPERR', 'LongInt'(' 412);
11773: 'IDS_CAP_READONLYFILE', 'LongInt'(' 413);
11774: 'IDS_CAP_WRITEERROR', 'LongInt'(' 414);
11775: 'IDS_CAP_NODISKSPACE', 'LongInt'(' 415);
11776: 'IDS_CAP_SETFILESIZE', 'LongInt'(' 416);
11777: 'IDS_CAP_SAVEASPERCENT', 'LongInt'(' 417);
11778: 'IDS_CAP_DRIVER_ERROR', 'LongInt'(' 418);
11779: 'IDS_CAP_WAVE_OPEN_ERROR', 'LongInt'(' 419);
11780: 'IDS_CAP_WAVE_ALLOC_ERROR', 'LongInt'(' 420);
11781: 'IDS_CAP_WAVE_PREPARE_ERROR', 'LongInt'(' 421);
11782: 'IDS_CAP_WAVE_ADD_ERROR', 'LongInt'(' 422);
11783: 'IDS_CAP_WAVE_SIZE_ERROR', 'LongInt'(' 423);
11784: 'IDS_CAP_VIDEO_OPEN_ERROR', 'LongInt'(' 424);
11785: 'IDS_CAP_VIDEO_ALLOC_ERROR', 'LongInt'(' 425);
11786: 'IDS_CAP_VIDEO_PREPARE_ERROR', 'LongInt'(' 426);
11787: 'IDS_CAP_VIDEO_ADD_ERROR', 'LongInt'(' 427);
11788: 'IDS_CAP_VIDEO_SIZE_ERROR', 'LongInt'(' 428);
11789: 'IDS_CAP_FILE_OPEN_ERROR', 'LongInt'(' 429);
11790: 'IDS_CAP_FILE_WRITE_ERROR', 'LongInt'(' 430);
11791: 'IDS_CAP_RECORDING_ERROR', 'LongInt'(' 431);
11792: 'IDS_CAP_RECORDING_ERROR2', 'LongInt'(' 432);
11793: 'IDS_CAP_AVI_INIT_ERROR', 'LongInt'(' 433);
11794: 'IDS_CAP_NO_FRAME_CAP_ERROR', 'LongInt'(' 434);
11795: 'IDS_CAP_NO_PALETTE_WARN', 'LongInt'(' 435);
11796: 'IDS_CAP_MCI_CONTROL_ERROR', 'LongInt'(' 436);
11797: 'IDS_CAP_MCI_CANT_STEP_ERROR', 'LongInt'(' 437);
11798: 'IDS_CAP_NO_AUDIO_CAP_ERROR', 'LongInt'(' 438);
11799: 'IDS_CAP_AVI_DRAWDIB_ERROR', 'LongInt'(' 439);
11800: 'IDS_CAP_COMPRESSOR_ERROR', 'LongInt'(' 440);
11801: 'IDS_CAP_AUDIO_DROP_ERROR', 'LongInt'(' 441);
11802: 'IDS_CAP_STAT_LIVE_MODE', 'LongInt'(' 500);
11803: 'IDS_CAP_STAT_OVERLAY_MODE', 'LongInt'(' 501);
11804: 'IDS_CAP_STAT_CAP_INIT', 'LongInt'(' 502);
11805: 'IDS_CAP_STAT_CAP_FINI', 'LongInt'(' 503);
11806: 'IDS_CAP_STAT_PALETTE_BUILD', 'LongInt'(' 504);
11807: 'IDS_CAP_STAT_OPTPAL_BUILD', 'LongInt'(' 505);

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11808:  'IDS_CAP_STAT_I_FRAMES', 'LongInt'( 506);
11809:  'IDS_CAP_STAT_L_FRAMES', 'LongInt'( 507);
11810:  'IDS_CAP_STAT_CAP_L_FRAMES', 'LongInt'( 508);
11811:  'IDS_CAP_STAT_CAP_AUDIO', 'LongInt'( 509);
11812:  'IDS_CAP_STAT_VIDEOCURRENT', 'LongInt'( 510);
11813:  'IDS_CAP_STAT_VIDEOAUDIO', 'LongInt'( 511);
11814:  'IDS_CAP_STAT_VIDEOONLY', 'LongInt'( 512);
11815:  'IDS_CAP_STAT_FRAMESDROPPED', 'LongInt'( 513);
11816:  'AVICAP32', 'String' 'AVICAP32.dll
11817: end;
11818:
11819: procedure SIRegister_ALFcnMisc(CL: TPSPPascalCompiler);
11820: begin
11821:   Function AlBoolToInt( Value : Boolean) : Integer
11822:   Function ALMediumPos( LTotal, LBorder, LObject : integer) : Integer
11823:   Function AlIsValidEmail( const Value : AnsiString) : boolean
11824:   Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime) : TdateTime
11825:   Function ALInc( var x : integer; Count : integer) : Integer
11826:   function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11827:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11828:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11829:   Function ALIsInteger(const S: AnsiString): Boolean;
11830:   function ALIsDecimal(const S: AnsiString): boolean;
11831:   Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11832:   function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11833:   function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11834:   function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11835:   function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11836:   Function ALRandomStr1(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11837:   Function ALRandomStr(const aLength: Longint): AnsiString;
11838:   Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11839:   Function ALRandomStrU(const aLength: Longint): String;
11840: end;
11841:
11842: procedure SIRegister_ALJSONDoc(CL: TPSPPascalCompiler);
11843: begin
11844:   Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const aTrueStr: AnsiString; const aFalseStr : AnsiString)
11845:   end;
11846:
11847: procedure SIRegister_ALWindows(CL: TPSPPascalCompiler);
11848: begin
11849:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11850:   +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11851:   +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11852:   +''; ullAvailExtendedVirtual : Int64; end
11853:   TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11854:   Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11855:   Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11856:   'INVALID_SET_FILE_POINTER','LongInt'( DWORD ( - 1 ) );
11857:   'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2);
11858:   'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1);
11859:   'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8);
11860:   'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4);
11861: end;
11862:
11863: procedure SIRegister_IPCThrd(CL: TPSPPascalCompiler);
11864: begin
11865:   SIRegister_THandledObject(CL);
11866:   SIRegister_TEvent(CL);
11867:   SIRegister_TMutex(CL);
11868:   SIRegister_TSharedMem(CL);
11869:   'TRACE_BUF_SIZE','LongInt'( 200 * 1024);
11870:   'TRACE_BUFFER','String' 'TRACE_BUFFER
11871:   'TRACE_MUTEX','String' 'TRACE_MUTEX
11872:   //PTTraceEntry', '^TTraceEntry // will not work
11873:   SIRegister_TIPCTracer(CL);
11874:   'MAX_CLIENTS','LongInt'( 6);
11875:   'IPCTIMEOUT','LongInt'( 2000);
11876:   'IPCBUFFER_NAME','String' 'BUFFER_NAME
11877:   'BUFFER_MUTEX_NAME','String' 'BUFFER_MUTEX
11878:   'MONITOR_EVENT_NAME','String' 'MONITOR_EVENT
11879:   'CLIENT_EVENT_NAME','String' 'CLIENT_EVENT
11880:   'CONNECT_EVENT_NAME','String' 'CONNECT_EVENT
11881:   'CLIENT_DIR_NAME','String' 'CLIENT_DIRECTORY
11882:   'CLIENT_DIR_MUTEX','String' 'DIRECTORY_MUTEX
11883:   FindClass('TOBJECT'), 'EMonitorActive
11884:   FindClass('TOBJECT'), 'TIPCThread
11885:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11886:   +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11887:   +'ach, evClientSwitch, evClientSignal, evClientExit )
11888:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11889:   TClientFlags', 'set of TClientFlag
11890:   //PEventData', '^TEventData // will not work
11891:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11892:   +'lag; Flags : TClientFlags; end
11893:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11894:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11895:   TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)

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11896: //PIPCEventInfo', '^TIPCEventInfo // will not work
11897: TIPCEventInfo','record FID:Integer;FKind:TEventKind;FData:TEventData;end
11898: SIRegister_TIPCEvent(CL);
11899: //PClientDirRecords', '^TClientDirRecords // will not work
11900: SIRegister_TClientDirectory(CL);
11901: TIPCState', '( stInactive, stDisconnected, stConnected )
11902: SIRegister_TIPCThread(CL);
11903: SIRegister_TIPCMonitor(CL);
11904: SIRegister_TIPCCClient(CL);
11905: Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11906: end;
11907:
11908: (*-----*)
11909: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11910: begin
11911:   SIRegister_TALGSMComm(CL);
11912:   Function AlGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11913:   Procedure AlGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
11914:   AMessage:AnsiString);
11915:   Function AlGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11916:   Function AlGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
11917:   UseGreekAlphabet:Bool):Widestring;
11918:   function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11919:   end;
11920:
11921: procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11922: begin
11923:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11924:   TALHTTPProtocolVersion', '( HTTPPpv_1_0, HTTPPpv_1_1 )
11925:   TALHTTPMethod', '(HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete);
11926:   TIInternetScheme', 'integer
11927:   TALIPv6Binary', 'array[1..16] of Char;
11928:   // TALIPv6Binary = array[1..16] of ansiChar;
11929:   // TIInternetScheme = Integer;
11930:   SIRegister_TALHTTPRequestHeader(CL);
11931:   SIRegister_TALHTTPCookie(CL);
11932:   SIRegister_TALHTTPCookieCollection(CL);
11933:   SIRegister_TALHTTPResponseHeader(CL);
11934:   Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11935:   Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11936:   // Procedure ALEXtractHTTPFields(Separators,WhiteSpace,Quotes:TSysCharSet,
11937:   Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11938:   // Procedure ALEXtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar,
11939:   Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11940:   // Procedure ALEXtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
11941:   Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11942:   Function AlRemoveShemeFromUrl( aUrl : AnsiString ) : ansiString
11943:   Function AlExtractShemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11944:   Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11945:   Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11946:   Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11947:   Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
11948:   ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11949:   Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
11950:   Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11951:   Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11952:   Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
11953:   Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
11954:   Function AlCombineUrl( RelativeUrl, BaseUrl : AnsiString ) : AnsiString;
11955:   Function AlCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11956:   Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11957:   Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11958:   Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11959:   Function ALRfc822StrToGMTDateTime( const s : AnsiString; : TDateTime
11960:   Function ALTryIPV4StrToNumeric( aIPV4Str : ansiString; var aIPV4Num : Cardinal ) : Boolean
11961:   Function ALIPV4StrToNumeric( aIPV4 : ansiString ) : Cardinal
11962:   Function ALNumericToIPV4Str( aIPV4 : Cardinal ) : ansiString
11963:   Function ALZeroIpV6 : TALIPv6Binary
11964:   Function ALTryIPV6StrToBinary( aIPV6Str : ansiString; var aIPv6Bin : TALIPv6Binary ) : Boolean
11965:   Function ALIPV6StrToBinary( aIPV6 : ansiString ) : TALIPv6Binary
11966:   Function ALBinaryToIPV6Str( aIPV6 : TALIPv6Binary ) : ansiString
11967:   Function ALBinaryStrToIPV6Binary( aIPV6BinaryStr : ansiString ) : TALIPv6Binary
11968:   end;
11969:   procedure SIRegister_ALFcnsHTML(CL: TPSPascalCompiler);
11970:   begin
11971:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
11972:   DecodeHTMLText:Bool;
11973:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11974:   Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
11975:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean ) : AnsiString
11976:   Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
11977:   Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
11978:   useNumRef:bool):AnsiString);
11979:   Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11980:   Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean ) : AnsiString
11981:   Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
11982:   Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
11983:   DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)

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11975: Procedure ALCompactHtmlTagParams( TagParams : TALStrings )
11976: end;
11977:
11978: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
11979: begin
11980:   SIRegister_TALEMailHeader(CL);
11981:   SIRegister_TALNewsArticleHeader(CL);
11982:   Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
11983: decodeRealName:Bool):AnsiString;
11984:   Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11985:   Function ALMakeFriendlyEmailAddress( aRealName , aEmail : AnsiString ) : AnsiString
11986:   Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11987:   Function AlGenerateInternetMessageID : AnsiString;
11988:   Function AlGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11989:   Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
11990:   Function AlDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11990: end;
11991:
11992: (*-----*)
11993: procedure SIRegister_ALFcnsWinSock(CL: TPSPascalCompiler);
11994: begin
11995:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11996:   Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
11997:   Function ALGetLocalIPs : TALStrings
11998:   Function ALGetLocalHostName : AnsiString
11999: end;
12000:
12001: procedure SIRegister_ALFcncCGI(CL: TPSPascalCompiler);
12002: begin
12003:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
12004:     TALWebRequest;ServerVariables:TALStrings);
12004:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
12005:     TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12005:   Procedure ALCGIInitDefaultServerVariables( ServerVariables : TALStrings );
12006:   Procedure ALCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
12007:     ScriptFileName:AnsiString;Url:AnsiString;
12008:     Procedure ALCGIEexec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
12009:     : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader );
12009:   Procedure ALCGIEexec1( ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
12010:     WebRequest : TALIsapiRequest;
12010:     overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;' +overloadedRequestContentStream:Tstream;var
12010:     ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
12011:   Procedure ALCGIEexec2( ScriptName,ScriptFileName,Url,X_REWRITE_URL,
12011:     InterpreterFilename:AnsiString;WebRequest: TALIsapiRequest; var ResponseContentString : AnsiString;
12011:     ResponseHeader : TALHTTPResponseHeader );
12012: end;
12013:
12014: procedure SIRegister_ALFcnsExecute(CL: TPSPascalCompiler);
12015: begin
12016:   TStartupInfoA', 'TStartupInfo
12017:   'SE_CREATE_TOKEN_NAME','String'( 'SeCreateTokenPrivilege
12018:   SE_ASSIGNPRIMARYTOKEN_NAME','String 'SeAssignPrimaryTokenPrivilege
12019:   SE_LOCK_MEMORY_NAME','String( 'SelockMemoryPrivilege
12020:   SE_INCREASE_QUOTA_NAME','String 'SeIncreaseQuotaPrivilege
12021:   SE_UNSOLICITED_INPUT_NAME','String 'SeUnsolicitedInputPrivilege
12022:   SE_MACHINE_ACCOUNT_NAME','String 'SeMachineAccountPrivilege
12023:   SE_TCB_NAME','String 'SetcbPrivilege
12024:   SE_SECURITY_NAME','String 'SeSecurityPrivilege
12025:   SE_TAKE_OWNERSHIP_NAME','String 'SeTakeOwnershipPrivilege
12026:   SE_LOAD_DRIVER_NAME','String 'SeLoadDriverPrivilege
12027:   SE_SYSTEM_PROFILE_NAME','String 'SeSystemProfilePrivilege
12028:   SE_SYSTEMTIME_NAME','String 'SeSystemtimePrivilege
12029:   SE_PROF_SINGLE_PROCESS_NAME','String 'SeProfileSingleProcessPrivilege
12030:   SE_INC_BASE_PRIORITY_NAME','String 'SeIncreaseBasePriorityPrivilege
12031:   SE_CREATE_PAGEFILE_NAME','String 'SeCreatePagefilePrivilege
12032:   SE_CREATE_PERMANENT_NAME','String 'SeCreatePermanentPrivilege
12033:   SE_BACKUP_NAME','String 'SeBackupPrivilege
12034:   SE_RESTORE_NAME','String 'SeRestorePrivilege
12035:   SE_SHUTDOWN_NAME','String 'SeShutdownPrivilege
12036:   SE_DEBUG_NAME','String 'SeDebugPrivilege
12037:   SE_AUDIT_NAME','String 'SeAuditPrivilege
12038:   SE_SYSTEM_ENVIRONMENT_NAME','String 'SeSystemEnvironmentPrivilege
12039:   SE_CHANGE_NOTIFY_NAME','String 'SeChangeNotifyPrivilege
12040:   SE_REMOTE_SHUTDOWN_NAME','String 'SeRemoteShutdownPrivilege
12041:   SE_UNDOCK_NAME','String 'SeUndockPrivilege
12042:   SE_SYNC_AGENT_NAME','String 'SeSyncAgentPrivilege
12043:   SE_ENABLE_DELEGATION_NAME','String 'SeEnableDelegationPrivilege
12044:   SE_MANAGE_VOLUME_NAME','String 'SeManageVolumePrivilege
12045:   Function AlGetEnvironmentString : AnsiString
12046:   Function ALWinExec322(const FileName,CurrentDir,
12046:     Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12047:   Function ALWinExec321(const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12048:   Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer ) : DWORD
12049:   Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer ) : DWORD
12050:   Function ALNTSetPrivilege( sprivilege : AnsiString; bEnabled : Boolean ) : Boolean
12051: end;

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12052:
12053: procedure SIRRegister_ALFcns(CL: TPSPascalCompiler);
12054: begin
12055:   Function ALEmptyDirectory(Directory: ansiString; SubDirectory: Boolean; IgnoreFiles: array of AnsiString; const
12056:     RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime) : Boolean;
12057:   Function ALEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
12058:     RemoveEmptySubDirectory: Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime ) : Boolean;
12059:   Function ALCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
12060:     FileNameMask : ansiString; const FailIfExists : Boolean) : Boolean
12061:   Function ALGetModuleName : ansistring
12062:   Function ALGetModuleFileNameWithoutExtension : ansistring
12063:   Function ALGetModulePath : ansistring
12064:   Function ALGetFileSize( const AFileName : ansistring) : int64
12065:   Function ALGetFileVersion( const AFileName : ansistring) : ansistring
12066:   Function ALGetFileCreationDateTime( const aFileName : Ansistring) : TDateTime
12067:   Function ALGetFileLastWriteDateTime( const aFileName : Ansistring) : TDateTime
12068:   Function ALGetFileLastAccessDateTime( const aFileName : Ansistring) : TDateTime
12069:   Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime)
12070:   Function ALIsDirectoryEmpty( const directory : ansiString) : boolean
12071:   Function ALFleExists( const Path : ansiString) : boolean
12072:   Function ALDirectoryExists( const Directory : Ansistring) : Boolean
12073:   Function ALCreateDir( const Dir : Ansistring) : Boolean
12074:   Function ALRemoveDir( const Dir : Ansistring) : Boolean
12075:   Function ALDeleteFile( const FileName : Ansistring) : Boolean
12076:   Function ALRenameFile( const OldName, NewName : ansistring) : Boolean
12077: end;
12078: procedure SIRRegister_ALFcnsMime(CL: TPSPascalCompiler);
12079: begin
12080:   NativeInt', 'Integer
12081:   NativeUInt', 'Cardinal
12082:   Function ALMimeBase64EncodeString( const S : AnsiString) : AnsiString
12083:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString) : AnsiString
12084:   Function ALMimeBase64DecodeString( const S : AnsiString) : AnsiString
12085:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt) : NativeInt
12086:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt) : NativeInt
12087:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt) : NativeInt
12088:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12089:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12090:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12091:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12092:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12093:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt)
12094:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12095:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt) : NativeInt;
12096:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
12097:     InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt);
12098:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
12099:     ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12100:   Procedure ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
12101:     ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal) : NativeInt;
12102:   Procedure ALMimeBase64Encode( const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
12103:     OutputBuf:TByteDynArray);
12104:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
12105:     OutputBuffer:TByteDynArray);
12106:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12107:     OutputBuffer:TByteDynArray);
12108:   Function ALMimeBase64Decode1( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12109:     OutputBuffer:TByteDynArray);
12110:   Function ALMimeBase64DecodePartial1( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
12111:     OutputBuffer:TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12112:   Function ALMimeBase64DecodePartialEnd1( out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
12113:     ByteBufferSpace:Cardinal):NativeInt;
12114:   Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName)
12115:   Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName)
12116:   Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName)
12117:   Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream)
12118:   Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream)
12119:   Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream)
12120:   'cALMimeBase64_ENCODED_LINE_BREAK','LongInt'( 76 );
12121:   'cALMimeBase64_DECODED_LINE_BREAK','LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3 );
12122:   'cALMimeBase64_BUFFER_SIZE','LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4 );
12123:   Procedure ALFillMimeContentTypeByExtList( AMIMEList : TALStrings)
12124:   Procedure ALFillExtByMimeContentTypeList( AMIMELIST : TALStrings)
12125:   Function ALGetDefaultFileExtFromMimeType( aContentType : AnsiString) : AnsiString
12126:   Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString) : AnsiString
12127: end;
12128: procedure SIRRegister_ALXmlDoc(CL: TPSPascalCompiler);
12129: begin
12130:   'cALXMLNodeMaxListSize','LongInt'( Maxint div 16 );
12131:   FindClass( 'TOBJECT' ),'TALXMLNode
12132:   FindClass( 'TOBJECT' ),'TALXMLNodeList
12133:   FindClass( 'TOBJECT' ),'TALXMLDocument
12134:   TALXMLParseProcessingInstructionEvent', 'Procedure ( Sender:TObject; const Target,Data:AnsiString )
12135:   TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: AnsiString )
12136:   TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co '
12137:     + 'nst Name : AnsiString; const Attributes : TALStrings )
12138:   TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString )
12139:   TALXmlNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '

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12126: +'ntCData, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12127: +'ntDocType, ntDocFragment, ntNotation )
12128: TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12129: TALXMLDocOptions', 'set of TALXMLDocOption
12130: TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12131: TALXMLParseOptions', 'set of TALXMLParseOption
12132: TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12133: PALPointerXMLNodeList', '^PALPointerXMLNodeList // will not work
12134: SIRegister_EALXMLDocError(CL);
12135: SIRegister_TALXMLNodeList(CL);
12136: SIRegister_TALXMLNode(CL);
12137: SIRegister_TALXmlElementNode(CL);
12138: SIRegister_TALXmlAttributeNode(CL);
12139: SIRegister_TALXmlTextNode(CL);
12140: SIRegister_TALXmlDocumentNode(CL);
12141: SIRegister_TALXmlCommentNode(CL);
12142: SIRegister_TALXmlProcessingInstrNode(CL);
12143: SIRegister_TALXmlCDataNode(CL);
12144: SIRegister_TALXmlEntityRefNode(CL);
12145: SIRegister_TALXmlEntityNode(CL);
12146: SIRegister_TALXmlDocTypeNode(CL);
12147: SIRegister_TALXmlDocFragmentNode(CL);
12148: SIRegister_TALXmlNotationNode(CL);
12149: SIRegister_TALXMLDocument(CL);
12150: cALXmLUTF8EncodingStr', 'string 'UTF-8
12151: cALXmLUTF8HeaderStr', 'String '<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' +#13#10);
12152: CALNSDelim', 'String ': 
12153: CALXML', 'String 'xml
12154: CALVersion', 'String 'version
12155: CALEncoding', 'String 'encoding
12156: CALstandalone', 'String 'standalone
12157: CALDefaultNodeIndent', 'String '
12158: CALXmlDocument', 'String 'DOCUMENT
12159: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TalXMLDocument
12160: Procedure ALClearXMLDocument(const rootname:AnsiString;xmldoc:TalXMLDocument;const
EncodingStr:AnsiString);
12161: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildnodeName,
ChildnodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12162: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildnodeName, ChildnodeValue : AnsiString; const Recurse : Boolean ) : TalxmlNode
12163: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse : Boolean):TalxmlNode
12164: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName,AttributeValue : AnsiString; const Recurse : Boolean ) : TalxmlNode
12165: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString ) :
AnsiString
12166: end;
12167:
12168: procedure SIRegister_TeCanvas(CL: TPSPascalCompiler);
12169: //based on TEEProc, TeCanvas, TEEEngine, TChart
12170: begin
12171: 'TeePiStep','Double').setExtended( Pi / 180.0 );
12172: 'TeeDefaultPerspective','LongInt'( 100 );
12173: 'TeeMinAngle','LongInt'( 270 );
12174: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12175: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12176: 'teeclCream','LongWord( TColor ( $FOFBFF ) );
12177: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ) );
12178: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12179: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12180: 'teeclCream','LongWord').SetUInt( TColor ( $FOFBFF ) );
12181: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4A0A0 ) );
12182: 'TA_LEFT','LongInt'( 0 );
12183: 'TA_RIGHT','LongInt'( 2 );
12184: 'TA_CENTER','LongInt'( 6 );
12185: 'TA_TOP','LongInt'( 0 );
12186: 'TA_BOTTOM','LongInt'( 8 );
12187: 'teePATCOPY','LongInt'( 0 );
12188: 'NumCirclePoints','LongInt'( 64 );
12189: 'teeDEFAULT_CHARSET','LongInt'( 1 );
12190: 'teeANTIALIASED_QUALITY','LongInt'( 4 );
12191: 'TA_LEFT','LongInt'( 0 );
12192: 'bs_Solid','LongInt'( 0 );
12193: 'teepf24Bit','LongInt'( 0 );
12194: 'teepfDevice','LongInt'( 1 );
12195: 'CM_MOUSELEAVE','LongInt'( 10000 );
12196: 'CM_SYSCOLORCHANGE','LongInt'( 10001 );
12197: 'DC_BRUSH','LongInt'( 18 );
12198: 'DC_PEN','LongInt'( 19 );
12199: teeCOLORREF', 'LongWord
12200: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12201: //TNotifyEvent', 'Procedure ( Sender : TObject )
12202: SIRegister_TFilterRegion(CL);
12203: SIRegister_IFormCreator(CL);
12204: SIRegister_TTeeFilter(CL);
12205: //TFilterClass', 'class of TTeeFilter
12206: SIRegister_TFilterItems(CL);
12207: SIRegister_TConvolveFilter(CL);
12208: SIRegister_TBlurFilter(CL);

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12209: SIRegister_TTeePicture(CL);
12210: TPenEndStyle', '( esRound, esSquare, esFlat )
12211: SIRegister_TChartPen(CL);
12212: SIRegister_TChartHiddenPen(CL);
12213: SIRegister_TDottedGrayPen(CL);
12214: SIRegister_TDarkGrayPen(CL);
12215: SIRegister_TWhitePen(CL);
12216: SIRegister_TChartBrush(CL);
12217: TTeeView3DScrolled', 'Procedure ( IsHoriz : Boolean)
12218: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12219: SIRegister_TView3DOptions(CL);
12220: FindClass('TOBJECT'), 'TTeeCanvas
12221: TTeeTransparency', 'Integer
12222: SIRegister_TTeeBlend(CL);
12223: FindClass('TOBJECT'), 'TCanvas3D
12224: SIRegister_TTeeShadow(CL);
12225: teeTGradientDirection', '(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial,gdDiagonalUp,gdDiagonalDown )
12226: FindClass('TOBJECT'), 'TSubGradient
12227: SIRegister_TCustomTeeGradient(CL);
12228: SIRegister_TSubGradient(CL);
12229: SIRegister_TTeeGradient(CL);
12230: SIRegister_TTeeFontGradient(CL);
12231: SIRegister_TTeeFont(CL);
12232: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )
12233: TCanvasTextAlign', 'Integer
12234: TTeeCanvasHandle', 'HDC
12235: SIRegister_TTeeCanvas(CL);
12236: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12237: SIRegister_TFloatXYZ(CL);
12238: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12239: TRGB', 'record blue: byte; green: byte; red: byte; end
12240: {TRGB=packed record
12241:   Blue : Byte;
12242:   Green : Byte;
12243:   Red : Byte;
12244: //$$IFDEF CLX //Alpha : Byte; // Linux end;}
12245:
12246: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12247:   + TPoint3D; var Color0, Color1 : TColor ) : Boolean
12248: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12249: TCanvas3DPlane', '( cpX, cpY, cpZ )
12250: //IInterface', 'IUnknown
12251: SIRegister_TCanvas3D(CL);
12252: SIRegister_TTeeCanvas3D(CL);
12253: TTrianglePoints', 'Array[0..2] of TPoint;
12254: TFourPoints', 'Array[0..3] of TPoint;
12255: Function ApplyDark( Color : TColor; HowMuch : Byte ) : TColor
12256: Function ApplyBright( Color : TColor; HowMuch : Byte ) : TColor
12257: Function Point3D( const x, y, z : Integer ) : TPoint3D
12258: Procedure SwapDouble( var a, b : Double )
12259: Procedure SwapInteger( var a, b : Integer )
12260: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer )
12261: Procedure teeRectCenter( const R : TRect; var X, Y : Integer )
12262: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer ) : TRect
12263: Function RectFromTriangle( const Points : TTrianglePoints ) : TRect
12264: Function RectangleInRectangle( const Small, Big : TRect ) : Boolean
12265: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect )
12266: Procedure UnClipCanvas( ACanvas : TCanvas )
12267: Procedure ClipEllipse( ACanvas : TCanvas; const Rect : TRect )
12268: Procedure ClipRoundRectangle( ACanvas : TTeeCanvas; const Rect : TRect; RoundSize : Integer )
12269: Procedure ClipPolygon( ACanvas : TTeeCanvas; const Points : array of TPoint; NumPoints : Integer )
12270: 'TeeCharForHeight', 'String 'W
12271: 'DarkerColorQuantity', 'Byte').SetUInt( 128 );
12272: 'DarkColorQuantity', 'Byte').SetUInt( 64 );
12273: TButtonGetColorProc', 'Function : TColor
12274: SIRegister_TTeeButton(CL);
12275: SIRegister_TButtonColor(CL);
12276: SIRegister_TComboFlat(CL);
12277: Procedure TeeSetTeePen( FPen : TPen; APen : TChartPen; AColor : TColor; Handle : TTeeCanvasHandle )
12278: Function TeePoint( const ax, ay : Integer ) : TPoint
12279: Function TEEPointInRect( const Rect : TRect; const P : TPoint ) : Boolean;
12280: Function PointInRect1( const Rect : TRect; x, y : Integer ) : Boolean;
12281: Function TeeRect( Left, Top, Right, Bottom : Integer ) : TRect
12282: Function OrientRectangle( const R : TRect ) : TRect
12283: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer )
12284: Function PolygonBounds( const P : array of TPoint ) : TRect
12285: Function PolygonInPolygon( const A, B : array of TPoint ) : Boolean
12286: Function RGBValue( const Color : TColor ) : TRGB
12287: Function EditColor( AOwner : TComponent; AColor : TColor ) : TColor
12288: Function EditColorDialog( AOwner : TComponent; var AColor : TColor ) : Boolean
12289: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer ) : TPoint
12290: Function TeeCell( const P : TFourPoints ) : Boolean;
12291: Function TeeCell1( const P0, P1, P2 : TPoint ) : Boolean;
12292: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12293: Procedure SmoothStretch( Src, Dst : TBitmap );
12294: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption );
12295: Function TeeDistance( const x, y : Double ) : Double
12296: Function TeeLoadLibrary( const FileName : String ) : HInst

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12297: Procedure TeeFreeLibrary( hLibModule : HMODULE )
12298: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint )
12299: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap )
12300: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
12301: Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean )
12302:   SIRegister_ICanvasHyperlinks(CL);
12303:   SIRegister_ICanvasToolTips(CL);
12304: Function Supports( const Instance : IInterface; const IID : TGUID ) : Boolean
12305: end;
12306: procedure SIRegister_ovcmisc(CL: TPSPPascalCompiler);
12307: begin
12308:   TOvcHdc', 'Integer
12309:   TOvcHWND', 'Cardinal
12310:   TOvcHdc', 'HDC
12311:   TOvcHWND', 'HWNDF
12312: Function LoadBaseBitmap( lpBitmapName : PChar ) : HBITMAP
12313: Function LoadBaseCursor( lpCursorName : PChar ) : HCURSOR
12314: Function ovCompStruct( const S1, S2, Size : Cardinal ) : Integer
12315: Function DefaultEpoch : Integer
12316: Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12317: Procedure FixRealPrim( P : PChar; DC : Char )
12318: Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer ) : string
12319: Function GetLeftButton : Byte
12320: Function GetNextDlgItem( Ctrl : TOvcHWnd ) : hWnd
12321: Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte )
12322: Function GetShiftFlags : Byte
12323: Function ovCreateRotatedFont( F : TFont; Angle : Integer ) : hFont
12324: Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle;Height:Integer;Ctl3D:Boolean): Integer
12325: Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet ) : string
12326: Function ovIsForegroundTask : Boolean
12327: Function ovTrimLeft( const S : string ) : string
12328: Function ovTrimRight( const S : string ) : string
12329: Function ovQuotedStr( const S : string ) : string
12330: Function ovWordCount( const S : string; const WordDelims : TCharSet ) : Integer
12331: Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12332: Function PtrDiff( const P1, P2 : PChar ) : Word
12333: Procedure PtrInc( var P, Delta : Word )
12334: Procedure PtrDec( var P, Delta : Word )
12335: Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer )
12336: Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
12337: SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer )
12338: Function ovMinI( X, Y : Integer ) : Integer
12339: Function ovMaxI( X, Y : Integer ) : Integer
12340: Function ovMinL( X, Y : LongInt ) : LongInt
12341: Function ovMaxL( X, Y : LongInt ) : LongInt
12342: Function GenerateComponentName( PF : TWinControl; const Root : string ) : string
12343: Function PartialCompare( const S1, S2 : string ) : Boolean
12344: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12345: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12346: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12347: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
12348: TransparentColor : TColor )
12349: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width,Height:Int;Rect:TRect;
12350:TransparentColor : TColorRef)
12351: Function ovWidthOf( const R : TRect ) : Integer
12352: Function ovHeightOf( const R : TRect ) : Integer
12353: Procedure ovDebugOutput( const S : string )
12354: Function GetArrowWidth( Width, Height : Integer ) : Integer
12355: Procedure StripCharSeq( CharSeq : string; var Str : string )
12356: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12357: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12358: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12359: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12360: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12361: Function CreateMetaFile( p1 : PChar ) : HDC
12362: Function DescribePixelFormat( DC : HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor) : BOOL
12363: Function DrawText(hdc:HDc;lpString:PChar;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12364: Function DrawTextS(hdc:HDc;lpString:string;nCount:Integer; var lpRect:TRect;uFormat:UINT):Integer
12365: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12366: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12367: Function SetModeMode( DC : HDC; p2 : Integer ) : Integer
12368: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12369: //Function SetPaletteEntries(Palette:HPalette;startIndex,NumEntries:UINT;var PaletteEntries):UINT
12370: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12371: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : BOOL
12372: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12373: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12374: Function StretchBlt(DestDC:HDc;X,Y,Width,Height:Int;SrcDC:HDc;XSrc,YSrc,SrcWidth,
12375: SrcHeight:Int;Rop:DWORD):BOOL
12376: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12377: Function StretchDIBits(DC : HDC; DestX,DestY,DestWidth,DestHeight,SrcX,SrcY,SrcWidth,
12378: SrcHeight:Int;Bits:int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD ) : Integer
12379: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12380: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12381: Function SetSystemPaletteUse( DC : HDC; p2 : UINT ) : UINT

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12380: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12381: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12382: Function SetTextAlign( DC : HDC; Flags : UINT ) : UINT
12383: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12384: Function UpdateColors( DC : HDC ) : BOOL
12385: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12386: Function GetViewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12387: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12388: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12389: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12390: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12391: Function MaskBlt( DestDC:HDC; XDest, YDest, Width, Height:Integer; SrcDC : HDC; XSrc, YSrc : Integer; Mask : HBITMAP; xMask, yMask : Integer; Rop : DWORD ) : BOOL
12392: Function PlgBlt(DestDC:HDC;const PtsArray,SrcDC:HDC,XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,yMask:Int):BOOL;
12393: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12394: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12395: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD ) : BOOL
12396: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12397: Function PlayMetaFile( DC : HDC; MF : HMETAFILE ) : BOOL
12398: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12399: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12400: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12401: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12402: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12403: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12404: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12405: end;
12406:
12407: procedure SIRegister_ovcfiler(CL: TPSPascalCompiler);
12408: begin
12409:   SIRegister_TOvcAbstractStore(CL);
12410:   //PEXPropInfo', '^TExPropInfo // will not work
12411: // _TEXPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12412:   SIRegister_TOvcPropertyList(CL);
12413:   SIRegister_TOvcDataFiler(CL);
12414: Procedure UpdateStoredList( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean)
12415: Procedure UpdateStoredList1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean)
12416: Function CreateStoredItem( const CompName, PropName : string) : string
12417: Function ParseStoredItem( const Item : string; var CompName, PropName : string) : Boolean
12418: //Function GetType( PropInfo : PExPropInfo ) : PTypeInfo
12419: end;
12420:
12421: procedure SIRegister_ovccoco(CL: TPSPascalCompiler);
12422: begin
12423:   'ovsetsize','LongInt'( 16 );
12424:   'etSyntax','LongInt'( 0 );
12425:   'etSemantic','LongInt'( 1 );
12426:   'chCR','Char #13';
12427:   'chLF','Char #10';
12428:   'chLineSeparator',' chCR';
12429:   SIRegister_TCocoError(CL);
12430:   SIRegister_TCommentItem(CL);
12431:   SIRegister_TCommentList(CL);
12432:   SIRegister_TSymbolPosition(CL);
12433:   TGenListType', '( glNever, glAlways, glOnError )
12434:   TovBitSet', 'set of Integer
12435:   //PStartTable', '^TStartTable // will not work
12436:   'TovCharSet', 'set of AnsiChar
12437:   TAFTERGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12438:   TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList)
12439:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12440:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError)
12441:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP'
12442:     +'osition; const Data : string; Errortype : integer)
12443:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer)
12444:   TGETCH', 'Function ( pos : longint ) : char
12445:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer)
12446:     SIRegister_TCocoRScanner(CL);
12447:     SIRegister_TCocoRGrammar(CL);
12448:     '_EF','Char #0);
12449:     '_TAB','Char').SetString( #09);
12450:     '_CR','Char').SetString( #13);
12451:     '_LF','Char').SetString( #10);
12452:     '_EL','').SetString( _CR);
12453:     '_EOF','Char').SetString( #26);
12454:   'LineEnds','TCharSet'( ord(_CR) or ord(_LF) or ord(_EF));
12455:   'minErrDist','LongInt'( 2 );
12456:   Function ovPadL( S : string; ch : char; L : integer ) : string
12457: end;
12458:
12459: TFormatSettings = record
12460:   CurrencyFormat: Byte;
12461:   NegCurrFormat: Byte;
12462:   ThousandSeparator: Char;
12463:   DecimalSeparator: Char;
12464:   CurrencyDecimals: Byte;
12465:   DateSeparator: Char;
12466:   TimeSeparator: Char;

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12467:   ListSeparator: Char;
12468:   CurrencyString: string;
12469:   ShortDateFormat: string;
12470:   LongDateFormat: string;
12471:   TimeAMString: string;
12472:   TimePMString: string;
12473:   ShortTimeFormat: string;
12474:   LongTimeFormat: string;
12475:   ShortMonthNames: array[1..12] of string;
12476:   LongMonthNames: array[1..12] of string;
12477:   ShortDayNames: array[1..7] of string;
12478:   LongDayNames: array[1..7] of string;
12479:   TwoDigitYearCenturyWindow: Word;
12480: end;
12481;
12482: procedure SIRегистер_OvcFormatSettings(CL: TPSPPascalCompiler);
12483: begin
12484:   Function ovFormatSettings : TFormatSettings
12485: end;
12486;
12487: procedure SIRегистер_ovcstr(CL: TPSPPascalCompiler);
12488: begin
12489:   TOvcCharSet', 'set of Char
12490:   'ovBTable', 'array[0..255] of Byte
12491:   //BTable = array[0..{$IFDEF UNICODE}{$IFDEF {$HUGE_UNICODE_BMTABLE}}$FFFF{$ELSE}{$FF{$ENDIF}{$ELSE}{$FF{$ENDIF}}] of Byte;
12492:   Function BinaryBPChar( Dest : PChar; B : Byte) : PChar
12493:   Function BinaryPChar( Dest : PChar; L : LongInt) : PChar
12494:   Function BinaryWPChar( Dest : PChar; W : Word) : PChar
12495:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable)
12496:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12497:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12498:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal) : PChar
12499:   Function DetabPChar( Dest : PChar; Src : PChar; TabSize : Byte) : PChar
12500:   Function HexBPChar( Dest : PChar; B : Byte) : PChar
12501:   Function HexLPChar( Dest : PChar; L : LongInt) : PChar
12502:   Function HexPtrPChar( Dest : PChar; P : TObject) : PChar
12503:   Function HexWPChar( Dest : PChar; W : Word) : PChar
12504:   Function LoCaseChar( C : Char) : Char
12505:   Function OctalLPChar( Dest : PChar; L : LongInt) : PChar
12506:   Function StrChDeletePrim( P : PChar; Pos : Cardinal) : PChar
12507:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal) : PChar
12508:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal) : Boolean
12509:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word)
12510:   Function StrSCopy( Dest, S : PChar; Pos, Count : Cardinal) : PChar
12511:   Function StrSDeletePrim( P : PChar; Pos, Count : Cardinal) : PChar
12512:   Function StrSInsert( Dest, S1, S2 : PChar; Pos : Cardinal) : PChar
12513:   Function StrSInsertPrim( Dest, S : PChar; Pos : Cardinal) : PChar
12514:   Function StrSPos( P, S : PChar; var Pos : Cardinal) : Boolean
12515:   Function StrToIntLongPChar( S : PChar; var I : LongInt) : Boolean
12516:   Procedure TrimAllSpacesPChar( P : PChar)
12517:   Function TrimEmbeddedZeros( const S : string) : string
12518:   Procedure TrimEmbeddedZerosPChar( P : PChar)
12519:   Function TrimTrailPrimPChar( S : PChar) : PChar
12520:   Function TrimTrailPChar( Dest, S : PChar) : PChar
12521:   Function TrimTrailingZeros( const S : string) : string
12522:   Procedure TrimTrailingZerosPChar( P : PChar)
12523:   Function UpCaseChar( C : Char) : Char
12524:   Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet) : Boolean
12525:   Function ovc32StringIsCurrentCodePage( const S : WideString) : Boolean;
12526: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal) : Boolean;
12527: end;
12528;
12529: procedure SIRегистер_AfUtils(CL: TPSPPascalCompiler);
12530: begin
12531:   //PRaiseFrame', '^TRaiseFrame // will not work
12532:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12533:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12534:   Procedure SafeCloseHandle( var Handle : THandle)
12535:   Procedure ExchangeInteger( X1, X2 : Integer)
12536:   Procedure FillInteger( const Buffer, Size, Value : Integer)
12537:   Function LongMulDiv( Multi, Mult2, Div1 : Longint) : Longint
12538:   Function afCompareMem( P1, P2 : TObject; Length : Integer) : Boolean
12539:
12540: FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12541:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12542: function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12543:   function AccessCheckAndAuditAlarm(SubSystemName: PKOLOChar;
12544:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12545:     SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12546:     const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12547:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12548:   function AccessCheckByTypeAndAuditAlarm(SubSystemName: PKOLOChar;
12549:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12550:     SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12551:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12552:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12553:     var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12554:   function AccessCheckByTypeResultListAndAuditAlarm(SubSystemName: PKOLOChar;

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12555:     HandleId: Pointer; ObjectTypeName, ObjectName: PKOLChar;
12556:     SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12557:     AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12558:     ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12559:     var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12560: function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLChar): BOOL; stdcall;
12561: function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLChar): BOOL; stdcall;
12562: function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLChar;
12563:     lpCommandLine: PKOLChar; lpProcessAttributes: PSecurityAttributes;
12564:     lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12565:     dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLChar;
12566:     const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12567: function GetCurrentHwProfile(var lpHwFileInfo: THWProfileInfo): BOOL; stdcall;
12568: function GetFileSecurity(lpFileName: PKOLChar; RequestedInformation: SECURITY_INFORMATION;
12569:     pSecurityDescriptor: PSecurityDescriptor; nLength:DWORD; var lpnLengthNeeded: DWORD):BOOL; stdcall;
12570: function GetUserName(lpBuffer: PKOLChar; var nSize: DWORD): BOOL; stdcall;
12571: function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLChar;
12572:     dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12573: function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLChar;
12574:     dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12575: function LookupAccountName(lpSystemName, lpAccountName: PKOLChar;
12576:     Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLChar;
12577:     var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12578: function LookupAccountSid(lpSystemName: PKOLChar; Sid: PSID;
12579:     Name: PKOLChar; var cbName: DWORD; ReferencedDomainName: PKOLChar;
12580:     var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12581: function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLChar;
12582:     lpDisplayName: PKOLChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12583: function LookupPrivilegeName(lpSystemName: PKOLChar;
12584:     var lpLuid: TLargeInteger; lpName: PKOLChar; var cbName: DWORD): BOOL; stdcall;
12585: function LookupPrivilegeValue(lpSystemName, lpName: PKOLChar;
12586:     var lpLuid: TLargeInteger): BOOL; stdcall;
12587: function ObjectCloseAuditAlarm(SubsystemName: PKOLChar;
12588:     HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12589: function ObjectDeleteAuditAlarm(SubsystemName: PKOLChar;
12590:     HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12591: function ObjectOpenAuditAlarm(SubsystemName: PKOLChar; HandleId: Pointer;
12592:     ObjectTypeName: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12593:     ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12594:     var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12595:     var GenerateOnClose: BOOL): BOOL; stdcall;
12596: function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLChar;
12597:     HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12598:     var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12599: function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12600: function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12601: function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12602:     ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12603: function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12604:     lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12605:     var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12606: function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12607:     var phkResult: HKEY): Longint; stdcall;
12608: function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12609:     var phkResult: HKEY): Longint; stdcall;
12610: function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12611:     Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12612:     lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12613:     lpdwDisposition: PDWORD): Longint; stdcall;
12614: function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12615: function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12616: function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12617:     var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12618:     lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12619: function RegEnumKey(hKey:HKEY; dwIndex:DWORD; lpName:PKOLChar; cbName:DWORD):Longint;stdcall;
12620: function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12621:     var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12622:     lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12623: function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12624: function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY):Longint; stdcall;
12625: function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12626:     ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12627: function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12628:     lpcbClass: PDWORD; lpReserved: Pointer;
12629:     lpcbSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12630:     lpcb.MaxValueNameLen, lpcb.MaxValueLen, lpcbSecurityDescriptor: PDWORD;
12631:     lpftLastWriteTime: PFileTime): Longint; stdcall;
12632: function RegQueryMultipleValues(hKey: HKEY; var Vailist;
12633:     NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12634: function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12635:     lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12636: function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12637:     lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12638: function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12639:     lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12640: function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12641: function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12642:     lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12643: function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;

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12644:     dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12645:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12646:         Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12647:     function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12648:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12649:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12650:         dwEventID: DWORD; lpUserSid: Pointer; wNumStrings: Word;
12651:         dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12652:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;
12653:         pSecurityDescriptor: PSecurityDescriptor): BOOL; stdcall;
12654:
12655:     Function wAddAtom( lpString : PKOLChar ) : ATOM
12656:     Function wBeginUpdateResource( pFileName : PKOLChar; bDeleteExistingResources : BOOL ) : THandle
12657: //Function wCallNamedPipe( lpNamedPipeName : PKOLChar; lpInBuffer : Pointer; nInBufferSize : DWORD;
12658: lpOutBuffer : Pointer; nOutBufferSize : DWORD; var lpBytesRead : DWORD; nTimeOut : DWORD ) : BOOL
12659: //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig ) : BOOL
12660:     Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
12661:         lpString2 : PKOLChar; cchCount2 : Integer ) : Integer
12662:     Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL ) : BOOL
12663: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12664:     TFnProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD ) : BOOL
12665:     Function wCreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes ) : BOOL
12666:     Function w.CreateDirectoryEx(lpTemplateDirectory,
12667:         lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttribts):BOOL;
12668:     Function wCreateEvent( lpEventAttributes:PSecurityAttrib:bManualReset,
12669:         bInitialState:BOOL;lpName:PKOLChar):THandle;
12670:     Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
12671:         PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD;hTemplateFile:THandle ):THandle
12672:     Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; fProtect,
12673:         dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar ) : THandle
12674:     Function wCreateHardLink(lpFileName,
12675:         lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL
12676:     Function
12677:         CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle;
12678:     Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
12679:         nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes ) : THandle
12680: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
12681: lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
12682: Pointer;lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var
12683: lpProcessInfo:TProcessInformation):BOOL
12684:     Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
12685:         Longint; lpName : PKOLChar ) : THandle
12686:     Function
12687:         wCreateWaitableTimer(lpTimerAtrbs:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLChar):THandle;
12688:     Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar ) : BOOL
12689:     Function wDeleteFile( lpFileName : PKOLChar ) : BOOL
12690:     Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL ) : BOOL
12691: //Function
12692:     wEnumCalendarInfo(lpCalInfEnumProc:TFNCalInfEnumProc;Locale:LCID;Calendar:CALID;CalType:CALTYPE):BOOL,
12693: //Function wEnumDateFormats(lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD) : BOOL
12694: //Function
12695:     wEnumResourceNames(hModule:HMODULE;lpType:PKOLChar;lpEnumFunc:ENUMRESNAMEPROC;lParam:Longint):BOOL,
12696: //Function wEnumResourceTypes( hModule:HMODULE; lpEnumFunc:ENUMRESTYPEPROC;lParam:Longint):BOOL,
12697: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD ) : BOOL
12698: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD ) : BOOL
12699: //Function wEnumTimeFormats(lpTimeFmtEnumProc:TFNTimeFmtEnumProc;Locale:LCID;dwFlags:DWORD):BOOL,
12700:     Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD ) : DWORD
12701:     Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar )
12702: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
12703: dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12704:     Function wFindAtom( lpString : PKOLChar ) : ATOM
12705:     Function
12706:         wFindFirstChangeNotification(lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD):THandle;
12707:     Function wFindFirstFile( lpFileName : PKOLChar; var lpFindfileData : TWIN32FindData ) : THandle
12708: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFindexInfoLevels; lpFindFileData :
12709: Pointer; fSearchOp : TFIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD ) : BOOL
12710:     Function wFindNextFile( hFindFile : THandle; var lpFindfileData : TWIN32FindData ) : BOOL
12711:     Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar ) : HRSRC
12712:     Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word ) : HRSRC
12713:     Function
12714:         wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Integer):Integer;
12715: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
12716: dwWord; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer ) : DWORD
12717:     Function wFreeEnvironmentStrings( EnvBlock : PKOLChar ) : BOOL
12718:     Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12719:     Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD ) : BOOL
12720:     Function wGetCommandLine : PKOLChar
12721: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD ) : DWORD
12722:     Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD ) : BOOL
12723:     Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD ) : DWORD
12724: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
12725: PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer ) : Integer
12726:     Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12727: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar,
12728: lpDateStr : PKOLChar; cchDate : Integer ) : Integer
12729: //Function wGetDefaultCommConfig( lpszName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12730:     Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
12731:         lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD ) : BOOL
12732: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
12733: lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger ) : BOOL

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12708: Function wGetDriveType( lpRootPathName : PKOLChar ) : UINT
12709: Function wGetEnvironmentStrings : PKOLChar
12710: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD ) : DWORD;
12711: Function wGetFileAttributes( lpFileName : PKOLChar ) : DWORD
12712: //Function
12713: Function wGetFileAttributesEx( lpFileName:PKOLChar,fInfoLevelId:TGetFileExInfoLevs,lpFileInform:Pointer):BOOL;
12714: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:LCTYPE;lpLCDData:PKOLChar;cchData:Integer): Integer
12715: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12716: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD ) : DWORD
12717: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12718: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
12719: lpCollectDataTimeOut : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12720: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt;
12721: lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12722: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;
12723: Function wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12724: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12725: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12726: Function wGetProfileString(lpAppName, lpKeyName, lpDefault : PKOLChar;lpReturnedStr: PKOLChar;
12727: nSize:DWORD; lpFileName : PKOLChar ) : DWORD
12728: Function wGetShortPathName( lpszLongPath:PKOLChar;lpszShortPath: PKOLChar; cchBuffer : DWORD ) : DWORD
12729: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo)
12730: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
12731: lpCharType):BOOL
12732: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12733: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar ):UINT
12734: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12735: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
12736: : DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
12737: lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12738: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12739: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12740: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12741: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12742: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12743: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12744: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12745: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12746: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12747: TFnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12748: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL;lpName:PKOLChar ) : THandle
12749: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar):THandle
12750: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12751: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar):THandle
12752: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12753: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
12754: lpNumberOfEventsRead:DWORD):BOOL;
12755: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12756: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12757: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
12758: lpNumberOfEventsRead:DWORD; lpReserved : Pointer ) : BOOL
12759: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
12760: lpNumOfEventsRead:DWORD):BOOL;
12761: //Function wReadConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
12762: : TCoord; var lpReadRegion : TSmallRect ) : BOOL
12763: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12764: DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12765: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12766: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
12767: lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12768: Function wSearchPath( lpPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
12769: lpFilePart:PKOLChar):DWORD;
12770: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12771: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12772: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12773: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12774: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12775: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12776: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDData : PKOLChar ) : BOOL
12777: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12778: //Function wUpdateResource(hUpdate:THandle,lpType,
12779: lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12780: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12781: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12782: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsToWrite :
12783: DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL

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12775: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
12776: var lpNumberOfEventsWritten : DWORD) : BOOL
12777: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
12778: TCoord; var lpWriteRegion : TSmallRect) : BOOL
12779: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12780: dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD) : BOOL
12781: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar) : BOOL
12782: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar) : BOOL
12783: Function wWriteProfileSection( lpAppName, lpString : PKOLChar) : BOOL
12784: Function wWriteProfileString( lpAppName, lpKeyName, lpString : PKOLChar) : BOOL
12785: Function wlstrcat( lpString1, lpString2 : PKOLChar) : PKOLChar
12786: Function wlstrcmp( lpString1, lpString2 : PKOLChar) : Integer
12787: Function wlstrcpy( lpString1, lpString2 : PKOLChar) : PKOLChar
12788: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer) : PKOLChar
12789: Function wlstrlen( lpString : PKOLChar) : Integer
12790: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruct :
12791: PNetConnectInfoStruct) : DWORD
12792: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
12793: lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12794: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12795: lpUserName:PKOLChar; dwFlags : DWORD) : DWORD
12796: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar) : DWORD
12797: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL) : DWORD
12798: Function wWNetCancelConnection( lpName : PKOLChar; fForce : BOOL) : DWORD
12799: //Function wWNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct) : DWORD
12800: //Function wWNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct) : DWORD
12801: //Function wWNetEnumResource(hEnum:THandle;var lpcCount:DWORD;lpBuffer:Ptr;var lpBufferSize:DWORD):DWORD;
12802: Function wWNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD) : DWORD;
12803: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
12804: : PKOLChar; nNameBufSize : DWORD) : DWORD
12805: //Function wWNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12806: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12807: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12808: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12809: lpBufferSize:DWORD):DWORD;
12810: Function wWNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD) : DWORD
12811: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12812: // Function wWNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer) : DWORD
12813: //Function wWNetUseConnection(hwndOwner:HWND;var
12814: lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
12815: lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12816: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12817: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD) : DWORD
12818: Function wVerFindFile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
12819: lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT) : DWORD
12820: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
12821: szTmpFile : PKOLChar; var lpuTmpFileLen : UINT) : DWORD
12822: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12823: //Function wGetPrivateProfileStruct(lpszSection,
12824: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12825: //Function wWritePrivateProfileStruct(lpszSection,
12826: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12827: Function wAddFontResource( FileName : PKOLChar) : Integer
12828: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector) : Integer
12829: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar) : HENHMETAFILE
12830: Function wCreateColorSpace( var ColorSpace : TLogColorSpace) : HCOLORSPACE
12831: Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode) : HDC
12832: //Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar) : HDC
12833: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
12834: fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
12835: fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT;
12836: Function wCreateFontIndirect( const p1 : TLogFont) : HFONT
12837: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV) : HFONT
12838: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpdvmInit : PDeviceMode) : HDC
12839: Function wCreateMetaFile( p1 : PKOLChar) : HFONT
12840: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar) : BOOL
12841: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12842: pPort:PKOLChar;iIdx:Int;out:PKOLChar;DevMod:PDeviceMode):Int;
12843: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TTFNFontEnumProc; p4 : LPARAM) : BOOL
12844: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TTFNFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12845: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fntermprc:TTFNFontEnumProc;lpszData:PKOLChar):Integer;
12846: //Function wEnumICMPprofiles( DC : HDC; ICMPProc : TFNICMEnumProc; p3 : LPARAM) : Integer
12847: //Function wExtTextOut(DC:HDC;X,
12848: Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12849: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs) : BOOL
12850: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts) : BOOL
12851: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12852: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12853: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths) : BOOL
12854: // Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12855: Function wGetEnhMetaFile( p1 : PKOLChar) : HENHMETAFILE
12856: Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar) : UINT
12857: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD) : DWORD
12858: // Function wGetGlyphOutline( DC : HDC; uChar,uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD;
12859: lpvBuffer : Pointer; const lpmat2 : TMat2) : DWORD
12860: Function wGetICMPProfile( DC : HDC; var Size : DWORD; Name : PKOLChar) : BOOL
12861: // Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD) : BOOL

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12845: Function wGetMetaFile( p1 : PKOLChar ) : HMETAFILE
12846: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12847: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12848: //Function wGetTextExtentExPoint( DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12849: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12850: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12851: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12852: //Function wGetTextMetrics( DC : HDC; var TM : TTextMetric ) : BOOL
12853: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12854: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12855: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12856: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12857: Function wSetICMPProfile( DC : HDC; Name : PKOLChar ) : BOOL
12858: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer
12859: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer ) : BOOL
12860: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UINT ) : BOOL
12861: Function wwglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD ) : BOOL
12862: //Function wwglUseFontOutlines(p1:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12863: Function wAppendMenu( hMenu : HMENU; uFlags, uidNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12864: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer ) : BOOL
12865: //Function
wCallWindowProc( lpPrevWndFunc:TFNWndProc,hWnd:HWND,Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12866: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD ) : Longint
12867: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar,var lpDevMode : TDeviceMode; wnd : HWND;
dwFlags : DWORD; lParam : Pointer ) : Longint
12868: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL;
12869: Function wCharLower( lpsz : PKOLChar ) : PKOLChar
12870: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12871: Function wCharNext( lpsz : PKOLChar ) : PKOLChar
12872: //Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12873: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar ) : PKOLChar
12874: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD ) : LPSTR
12875: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12876: Function wCharToOemBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12877: Function wCharUpper( lpsz : PKOLChar ) : PKOLChar
12878: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD ) : DWORD
12879: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer ) : Integer
12880: Function wCreateAcceleratorTable( var Accel, Count : Integer ) : HACCEL
12881: //Function wCreateDesktop(lpszDesktop,
lpszDevice:PKOLChar;pDevMode:PDeviceMode,dwFlags:DWORD,dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12882: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12883: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : HWND
12884: Function wCreateMDIWindow( lpClassName, lpWindowName : PKOLChar; dwStyle : DWORD; X,Y,nWidth,nHeight : Integer;
hWndParent : HWND; hInstance : HINST; lParam : LPARAM ) : HWND
12885: //Function wCreateWindowEx(dwExStyle:DWORD;lpszClassName:PKOLChar;lpszWindowName:PKOLChar;dwStyle:DWORD;X,Y,
nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInstace:HINST;lpParam:Pointer):HWND
12886: //Function wCreateWindowStation(lpinsta:PKOLChar;dwReserv,
dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12887: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12888: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12889: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT;
12890: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12891: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
: HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM ) : Integer
12892: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
: TFNDlgProc; dwInitParam : LPARAM ) : Integer
12893: Function wDispatchMessage( const lpMsg : TMsg ) : Longint
12894: Function wDlgDirList( hDlg:HWND;lpszPathSpec:PKOLChar;nIDListBox,
nIDStaticPath:Integer;uFileType:UINT):Integer;
12895: Function wDlgDirListComboBox( hDlg:HWND;lpszPathSpec:PKOLChar;nIDComboBox,
nIDStaticPath:Int;uFileType:UINT):Int;
12896: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer) : BOOL
12897: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer ) : BOOL
12898: //Function wDrawState( DC:HDC;Brush:HBRUSH;CBFunc:TFNDrawStateProc; lData:LPARAM; wDat:WPARAM; x,y,cx,
cy:Int;Flags:UINT):BOOL;
12899: Function wDrawText( hDC:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT ) : Integer;
12900: Function wFindWindow( lpClassName, lpWindowName : PKOLChar ) : HWND
12901: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar ) : HWND
12902: //Function wGetAltTabInfo( hwnd:HWND;iItem:Int;var
patti:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12903: // Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass ) : BOOL
12904: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx ) : BOOL
12905: Function wGetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
12906: Function wGetClassName( hWnd : HWND; lpClassName : PKOLChar; nMaxCount : Integer ) : Integer
12907: Function wGetClipboardFormatName( format : UINT; lpszFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12908: Function wGetDlgItemText( hDlg : HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12909: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer ) : Integer
12910: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar ) : BOOL
12911: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo ) : BOOL
12912: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12913: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UInt ) : BOOL
12914: Function wGetProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12915: //Function wGetTabbedTextExtent( hDC : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
lpnTabStopPositions ) : DWORD
12916: //Function wGetUserObjectInform(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
lpnLengthNeed:DWORD)BOOL;
12917: Function wGetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint

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12918: Function wGetWindowModuleFileName( hwnd : HWND; pszFileName : PKOLChar; cchFileNameMax : UINT ) : UINT
12919: Function wGetWindowText( hWnd : HWND; lpString : PKOLChar; nMaxCount : Integer ) : Integer
12920: Function wGetWindowTextLength( hWnd : HWND ) : Integer
12921: //Function wGrayString(hdc:HDC;hBrush:HBRUSH;lpOutFunc:TFNGrayStrProc;lpDat:TPARA;nCnt,X,Y,nWidt,
nHeigt:Int):BOOL;
12922: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12923: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12924: Function wIsCharAlpha( ch : KOLChar ) : BOOL
12925: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12926: Function wIsCharLower( ch : KOLChar ) : BOOL
12927: Function wIsCharUpper( ch : KOLChar ) : BOOL
12928: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12929: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12930: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12931: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12932: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12933: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12934: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12935: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12936: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12937: //Function wLoadMenuItemIndirect( lpMenuItemTemplate : Pointer ) : HMENU
12938: Function wLoadString(hInstance:HINST;uID: UINT; lpBuffer :PKOLChar;nBufferMax:Integer):Integer
12939: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12940: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhk1 : HKL ) : UINT
12941: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12942: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12943: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12944: Function wModifyMenu( hMu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12945: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12946: //7Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12947: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12948: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12949: Function wOpenDesktop( lpszDesktop : PKOLChar; dwFlags:fInherit:BOOL;dwDesiredAccess:DWORD) : HDESK
12950: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD) : HWINSTA
12951: Function wPeekMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ) : BOOL
12952: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12953: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12954: Function wRealGetWindowClass( hwnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
12955: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12956: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12957: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
12958: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12959: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
12960: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12961: Function wSendDlgItemMessage(hDlg:HWND;nIDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12962: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12963: //Function wSendMessageBoxCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL
12964: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
lpdwResult:DWORD) : LRESULT
12965: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12966: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12967: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
12968: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12969: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
12970: // Function wSetUserObjectInformation(hObject:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12971: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
12972: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12973: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
12974: //Function wSetWindowsHookEx(idHook:Integer,lfn:TFNHookProc,hmod:HANDLE;dwThreadId:DWORD):HHOOK;
12975: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL
12976: Function wTabbedTextOut(hdc:HDC;X,Y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
lpnTabStopPositions,nTabOrigin:Int):Longint;
12977: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12978: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12979: Function wVKeyScan( ch : KOLChar ) : SHORT
12980: Function wVKeyScanEx( ch : KOLChar; dwhk1 : HKL ) : SHORT
12981: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
12982: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12983: Function wwwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
12984:
12985: //TestDrive!
12986: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL'
12987: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString('ConvertSidToStringSidA'
12988: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
12989: Function GetlocalUserSidStr( const UserName : string ) : string
12990: Function getPid4user( const domain : string; const user : string; var pid : dword ) : boolean
12991: Function Impersonate2User( const domain : string; const user : string ) : boolean
12992: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12993: Function KillProcessbyname( const exename : string; var found : integer ) : integer
12994: Function getWinProcessList : TStringList
12995: end;
12996:
12997: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12998: begin
12999:   'AfMaxSyncSlots','LongInt'( 64 );
13000:   'AfSyncronizeTimeout','LongInt'( 2000 );
13001:   TAfSyncSlotID', 'DWORD
13002:   TAfSyncStatistics','record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end';

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13003: TAfSafeSyncEvent', 'Procedure ( ID : TAfSyncSlotID )
13004: TAfSafeDirectSyncEvent', 'Procedure
13005: Function AfNewSyncSlot( const AEvent : TAfSafeSyncEvent ) : TAfSyncSlotID
13006: Function AfReleaseSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13007: Function AfEnableSyncSlot( const ID : TAfSyncSlotID; Enable : Boolean ) : Boolean
13008: Function AfValidateSyncSlot( const ID : TAfSyncSlotID ) : Boolean
13009: Function AfSyncEvent( const ID : TAfSyncSlotID; Timeout : DWORD ) : Boolean
13010: Function AfDirectSyncEvent( Event : TAfSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
13011: Function AfIsSyncMethod : Boolean
13012: Function AfSyncWnd : HWnd
13013: Function AfSyncStatistics : TAfSyncStatistics
13014: Procedure AfClearSyncStatistics
13015: end;
13016:
13017: procedure SIRegister_AfComPortCore(CL: TPPascalCompiler);
13018: begin
13019:   'fBinary', 'LongWord')( $00000001 );
13020:   'fParity', 'LongWord'( $00000002 );
13021:   'fOutxCtsFlow', 'LongWord').SetUInt( $00000004 );
13022:   'fOutxDsrFlow', 'LongWord')( $00000008 );
13023:   'fDtrControl', 'LongWord')( $00000030 );
13024:   'fDtrControlDisable', 'LongWord')( $00000000 );
13025:   'fDtrControlEnable', 'LongWord')( $00000010 );
13026:   'fDtrControlHandshake', 'LongWord')( $00000020 );
13027:   'fDsrSensitivity', 'LongWord')( $00000040 );
13028:   'fTXContinueOnXoff', 'LongWord')( $00000080 );
13029:   'fOutX', 'LongWord')( $00000100 );
13030:   'fInX', 'LongWord')( $00000200 );
13031:   'fErrorChar', 'LongWord')( $00000400 );
13032:   'fNull', 'LongWord')( $00000800 );
13033:   'fRtsControl', 'LongWord')( $00003000 );
13034:   'fRtsControlDisable', 'LongWord')( $00000000 );
13035:   'fRtsControlEnable', 'LongWord')( $00001000 );
13036:   'fRtsControlHandshake', 'LongWord')( $00002000 );
13037:   'fRtsControlToggle', 'LongWord')( $00003000 );
13038:   'fAbortOnError', 'LongWord')( $00004000 );
13039:   'fDummy2', 'LongWord')( $FFFF8000 );
13040: TAfCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13041: FindClass('TOBJECT'), 'EAFComPortCoreError
13042: FindClass('TOBJECT'), 'TAFComPortCore
13043: TAfComPortCoreEvent', 'Procedure ( Sender : TAfComPortCore; Even'
13044:   + 'tKind : TAfCoreEvent; Data : DWORD)
13045: SIRegister_TAfComPortCoreThread(CL);
13046: SIRegister_TAfComPortEventThread(CL);
13047: SIRegister_TAfComPortWriteThread(CL);
13048: SIRegister_TAfComPortCore(CL);
13049: Function FormatDeviceName( PortNumber : Integer ) : string
13050: end;
13051:
13052: procedure SIRegister_ApplicationFileIO(CL: TPPascalCompiler);
13053: begin
13054:   TAPIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13055:   TAPIOFileExistsEvent', 'Function ( const fileName : String ) : Boolean
13056:   SIRegister_TApplicationFileIO(CL);
13057:   TDataFileCapability', '( dfcRead, dfcWrite )
13058:   TDataFileCapabilities', 'set of TDataFileCapability
13059:   SIRegister_TDataFile(CL);
13060:   //TDataFileClass', 'class of TDataFile
13061:   Function ApplicationFileIODefined : Boolean
13062:   Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13063:   Function FileStreamExists(const fileName: String) : Boolean
13064:   //Procedure Register
13065: end;
13066:
13067: procedure SIRegister_ALFBXLib(CL: TPPascalCompiler);
13068: begin
13069:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13070:   + ', uftCString, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13071:   + 'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13072:   TALFBXScale', 'Integer
13073:   FindClass('TOBJECT'), 'EALFBXConvertError
13074:   SIRegister_EALFBXException(CL);
13075:   SIRegister_EALFBXException(CL);
13076:   FindClass('TOBJECT'), 'EALFBXGFixError
13077:   FindClass('TOBJECT'), 'EALFBXDSQLError
13078:   FindClass('TOBJECT'), 'EALFBXDynError
13079:   FindClass('TOBJECT'), 'EALFBXGBakError
13080:   FindClass('TOBJECT'), 'EALFBXGSeeError
13081:   FindClass('TOBJECT'), 'EALFBXLicenseError
13082:   FindClass('TOBJECT'), 'EALFBXGStatError
13083:   //EALFBXExceptionClass', 'class of EALFBXError
13084:   TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13085:   + '37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13086:   + 'csEUCJ_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13087:   + 'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13088:   + 'csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13089:   + 'SDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13090:   + '4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13091:   + '8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )

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13092: TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13093: +'protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13094: +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13095: +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )'
13096: TALFBXTransParams', 'set of TALFBXTransParam
13097: Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13098: Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13099: Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13100: 'cALFBXMaxParamLength', 'LongInt'( 125 );
13101: TALFBXParamsFlag', 'set of TALFBXParamsFlag
13102: TALFBXParamsFlags', 'set of TALFBXParamsFlag
13103: //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13104: //PALFBXSQLData', '^TALFBXSQLData // will not work
13105: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete,
13106: +' stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis'
13107: +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13108: SIRегистер_TALFBXSQLDA(CL);
13109: //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13110: SIRегистер_TALFBXPoolStream(CL);
13111: //PALFBXBlobData', '^TALFBXBlobData // will not work
13112: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13113: //PALFBXArrayDesc', '^TALFBXArrayDesc // will not work
13114: //TALFBXArrayDesc', 'TISCArrayDesc
13115: //TALFBXBlobDesc', 'TISCBlobDesc
13116: //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13117: //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13118: SIRегистер_TALFBXSQLResult(CL);
13119: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13120: SIRегистер_TALFBXSQLParams(CL);
13121: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13122: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13123: +'atementType : TALFBXStatementType; end
13124: FindClass('TOBJECT'), TALFBXLibrary
13125: //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13126: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13127: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13128: +'Excep : EALFBXExceptionClass )
13129: SIRегистер_TALFBXLibrary(CL);
13130: 'cALFBXDateOffset', 'LongInt'( 15018 );
13131: 'cALFBXTimeCoef', 'LongInt'( 864000000 );
13132: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double );
13133: //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp );
13134: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13135: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word )
13136: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13137: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp );
13138: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp );
13139: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp );
13140: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13141: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord ) : Cardinal
13142: TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prLrgno )
13143: TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13144: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13145: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13146: end;
13147:
13148: procedure SIRегистер_ALFBXClient(CL: TPSPascalCompiler);
13149: begin
13150: TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13151: TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13152: TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13153: +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13154: +'teger; First : Integer; CacheThreshold : Integer; end
13155: TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13156: TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13157: TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13158: TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13159: +'_writes : int64; page_fetches : int64; page_marks : int64; end
13160: SIRегистер_TALFBXClient(CL);
13161: SIRегистер_TALFBXConnectionStatementPoolBinTreeNode(CL);
13162: SIRегистер_TALFBXConnectionStatementPoolBinTree(CL);
13163: SIRегистер_TALFBXConnectionWithStmtPoolContainer(CL);
13164: SIRегистер_TALFBXConnectionWithoutStmtPoolContainer(CL);
13165: SIRегистер_TALFBXReadTransactionPoolContainer(CL);
13166: SIRегистер_TALFBXReadStatementPoolContainer(CL);
13167: SIRегистер_TALFBXStringKeyPoolBinTreeNode(CL);
13168: SIRегистер_TALFBXConnectionPoolClient(CL);
13169: SIRегистер_TALFBXEventThread(CL);
13170: Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13171: end;
13172:
13173: procedure SIRегистер_ovcBidi(CL: TPSPascalCompiler);
13174: begin
13175: _OSVERSIONINFOA = record
13176: dwOSVersionInfoSize: DWORD;
13177: dwMajorVersion: DWORD;
13178: dwMinorVersion: DWORD;
13179: dwBuildNumber: DWORD;
13180: dwPlatformId: DWORD;

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13181:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13182:   end;
13183: TOSVersionInfoA', '_OSVERSIONINFOA
13184:   TOSVersionInfo', 'TOSVersionInfoA
13185: 'WS_EX_RIGHT','LongWord')( $00001000);
13186: 'WS_EX_LEFT','LongWord')( $00000000);
13187: 'WS_EX_RTLREADING','LongWord')( $00002000);
13188: 'WS_EX_LTRREADING','LongWord')( $00000000);
13189: 'WS_EX_LEFTSCROLLBAR','LongWord')( $00004000);
13190: 'WS_EX_RIGHTSCROLLBAR','LongWord')( $00000000);
13191: Function SetProcessDefaultLayout( dwDefaultLayout : DWORD) : BOOL
13192: 'LAYOUT_RTL','LongWord')( $00000001);
13193: 'LAYOUT_BTT','LongWord')( $00000002);
13194: 'LAYOUT_VBH','LongWord')( $00000004);
13195: 'LAYOUT_BITMAPORIENTATIONPRESERVED','LongWord')( $00000008);
13196: 'NOMIRRORBITMAP','LongWord')( DWORD ( $80000000 ));
13197: Function SetLayout( dc : HDC; dwLayout : DWORD) : DWORD
13198: Function GetLayout( dc : hdc ) : DWORD
13199: Function IsBidi : Boolean
13200: Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo) : BOOL
13201: Function GetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
13202: Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD) : BOOL
13203: Function GetPriorityClass( hProcess : THandle) : DWORD
13204: Function OpenClipboard( hWndNewOwner : HWND) : BOOL
13205: Function CloseClipboard : BOOL
13206: Function GetClipboardSequenceNumber : DWORD
13207: Function GetClipboardOwner : HWND
13208: Function SetClipboardViewer( hWndNewViewer : HWND) : HWND
13209: Function GetClipboardViewer : HWND
13210: Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND) : BOOL
13211: Function SetClipboardData( uFormat : UINT; hMem : THandle) : THandle
13212: Function GetClipboardData( uFormat : UINT) : THandle
13213: Function RegisterClipboardFormat( lpszFormat : PChar) : UINT
13214: Function CountClipboardFormats : Integer
13215: Function EnumClipboardFormats( format : UINT) : UINT
13216: Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13217: Function EmptyClipboard : BOOL
13218: Function IsClipboardFormatAvailable( format : UINT) : BOOL
13219: Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer) : Integer
13220: Function GetOpenClipboardWindow : HWND
13221: Function EndDialog( hDlg : HWND; nResult : Integer) : BOOL
13222: Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer) : HWND
13223: Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13224: Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13225: Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar) : BOOL
13226: Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT) : BOOL
13227: Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer) : BOOL
13228: Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer) : UINT
13229: Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13230: end;
13231:
13232: procedure SIRegister_DXPUtils(CL: TPSPascalCompiler);
13233: begin
13234:   Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13235:   Function GetTemporaryFilesPath : String
13236:   Function GetTemporaryFileName : String
13237:   Function FindFileInPaths( const fileName, paths : String) : String
13238:   Function PathsToString( const paths : TStrings) : String
13239:   Procedure StringToPaths( const pathsString : String; paths : TStrings)
13240: //Function MacroExpandPath( const aPath : String) : String
13241: end;
13242:
13243: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13244: begin
13245:   SIRegister_TALMultiPartBaseContent(CL);
13246:   SIRegister_TALMultiPartBaseContents(CL);
13247:   SIRegister_TALMultiPartBaseStream(CL);
13248:   SIRegister_TALMultiPartBaseEncoder(CL);
13249:   SIRegister_TALMultiPartBaseDecoder(CL);
13250:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString) : AnsiString
13251:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13252:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13253: end;
13254:
13255: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13256: begin
13257:   TdriveSize', 'record FreeS : Int64; Totals : Int64; end
13258:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In'
13259:   +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13260:   Function aAllocPadedMem( Size : Cardinal) : TObject
13261:   Procedure aFreePadedMem( var P : TObject);
13262:   Procedure aFreePadedMem( var P : PChar);
13263:   Function aCheckPadedMem( P : Pointer) : Byte
13264:   Function aGetPadMemSize( P : Pointer) : Cardinal
13265:   Function aAllocMem( Size : Cardinal) : Pointer
13266:   Function aStrLen( const Str : PChar) : Cardinal
13267:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal) : PChar
13268:   Function aStrECopy( Dest : PChar; const Source : PChar) : PChar
13269:   Function aStrCopy( Dest : PChar; const Source : PChar) : PChar

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13270: Function aStrEnd( const Str : PChar ) : PChar
13271: Function aStrScan( const Str : PChar; aChr : Char ) : PChar
13272: Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal ) : PChar
13273: Function aPCharLength( const Str : PChar ) : Cardinal
13274: Function aPCharUpper( Str : PChar ) : PChar
13275: Function aPCharLower( Str : PChar ) : PChar
13276: Function aStrCat( Dest : PChar; const Source : PChar ) : PChar
13277: Function aLastDelimiter( const Delimiters, S : String ) : Integer
13278: Function aCopyTail( const S : String; Len : Integer ) : String
13279: Function aInt2Thos( I : Int64 ) : String
13280: Function aUpperCase( const S : String ) : String
13281: Function aLowerCase( const S : string ) : String
13282: Function aCompareText( const S1, S2 : string ) : Integer
13283: Function aSameText( const S1, S2 : string ) : Boolean
13284: Function aInt2Str( Value : Int64 ) : String
13285: Function aStr2Int( const Value : String ) : Int64
13286: Function aStr2IntDef( const S : string; Default : Int64 ) : Int64
13287: Function aGetFileExt( const FileName : String ) : String
13288: Function aGetFilePath( const FileName : String ) : String
13289: Function aGetFileName( const FileName : String ) : String
13290: Function aChangeExt( const FileName, Extension : String ) : String
13291: Function aAdjustLineBreaks( const S : string ) : string
13292: Function aGetWindowStr( WinHandle : HWND ) : String
13293: Function aDiskSpace( Drive : String ) : TdriveSize
13294: Function aFileExists( FileName : String ) : Boolean
13295: Function aFileSize( FileName : String ) : Int64
13296: Function aDirectoryExists( const Name : string ) : Boolean
13297: Function aSysErrorMessage( ErrorCode : Integer ) : string
13298: Function aShortPathName( const LongName : string ) : string
13299: Function aGetWindowVer : TWinVerRec
13300: procedure InitDriveSpacePtr;
13301: end;
13302:
13303: procedure SIRegister_MakeApp(CL: TPSPascalCompiler);
13304: begin
13305:   aZero', 'LongInt'( 0 );
13306:   'makeappDEF', 'LongInt'( - 1 );
13307:   'CS_VREDRAW', 'LongInt'( DWORD( 1 ) );
13308:   'CS_HREDRAW', 'LongInt'( DWORD( 2 ) );
13309:   'CS_KEYCVTWINDOW', 'LongInt'( 4 );
13310:   'CS_DBLCLKS', 'LongInt'( 8 );
13311:   'CS_OWNDC', 'LongWord')( $20 );
13312:   'CS_CLASSDC', 'LongWord')( $40 );
13313:   'CS_PARENTDC', 'LongWord')( $80 );
13314:   'CS_NOKEYCWT', 'LongWord')( $100 );
13315:   'CS_NOCLOSE', 'LongWord')( $200 );
13316:   'CS_SAVEBITS', 'LongWord')( $800 );
13317:   'CS_BYTEALIGNCLIENT', 'LongWord')( $1000 );
13318:   'CS_BYTEALIGNWINDOW', 'LongWord')( $2000 );
13319:   'CS_GLOBALCLASS', 'LongWord')( $4000 );
13320:   'CSIME', 'LongWord')( $10000 );
13321:   'CS_DROPSHADOW', 'LongWord')( $20000 );
13322:   //TPanelFunc', '^TPanelFunc // will not work
13323:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13324:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13325:   TFontLooks', 'set of TFontLook
13326:   TMessagfunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer)
13327:   Function SetWinClass(const ClassName:String; pMessFnc: TMessagfunc; wcStyle : Integer): Word
13328:   Function SetWinClassO(const ClassName : String; pMessFnc : TObject; wcStyle : Integer): Word
13329:   Function SetWinClass(const ClassName : String; pMessFnc : TObject; wcStyle : Integer) : Word
13330:   Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13331:   Procedure RunMsgLoop( Show : Boolean )
13332:   Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13333:   Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int;
13334:   Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13335:   Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13336:   Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13337:   Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13338:   Function id4menu( a, b : Byte; c : Byte; d : Byte ) : Cardinal
13339:   Procedure DoInitMakeApp //set first to init formclasscontrol!
13340: end;
13341:
13342: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13343: begin
13344:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13345:     + 'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13346:   TScreenSaverOptions', 'set of TScreenSaverOption
13347:   'cDefaultScreenSaverOptions', 'LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13348:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13349:   SIRegister_TScreenSaver(CL);
13350:   //Procedure Register
13351:   Procedure SetScreenSaverPassword
13352: end;
13353:
13354: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13355: begin

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13356:   FindClass('TOBJECT'), 'TXCollection
13357:   SIRegister_EFilerException(CL);
13358:   SIRegister_TXCollectionItem(CL);
13359:   //TXCollectionItemClass', 'class of TXCollectionItem
13360:   SIRegister_TXCollection(CL);
13361:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13362:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13363:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13364:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13365:   Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13366:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13367: end;
13368:
13369: procedure SIRegister_XOpenGL(CL: TPSPascalCompiler);
13370: begin
13371:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13372:   Procedure xglMapTexCoordToNull
13373:   Procedure xglMapTexCoordToMain
13374:   Procedure xglMapTexCoordToSecond
13375:   Procedure xglMapTexCoordToDual
13376:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13377:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13378:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13379:   Procedure xglBeginUpdate
13380:   Procedure xglEndUpdate
13381:   Procedure xglPushState
13382:   Procedure xglPopState
13383:   Procedure xglForbidSecondTextureUnit
13384:   Procedure xglAllowSecondTextureUnit
13385:   Function xglGetBitWiseMapping : Cardinal
13386: end;
13387:
13388: procedure SIRegister_VectorLists(CL: TPSPascalCompiler);
13389: begin
13390:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory)
13391:   TBaseListOptions', 'set of TBaseListOption
13392:   SIRegister_TBaseList(CL);
13393:   SIRegister_TBaseVectorList(CL);
13394:   SIRegister_TAffineVectorList(CL);
13395:   SIRegister_TVectorList(CL);
13396:   SIRegister_TTexPointList(CL);
13397:   SIRegister_TXIntegerList(CL);
13398:   //PSingleArrayList', 'TSingleArrayList // will not work
13399:   SIRegister_TSingleList(CL);
13400:   SIRegister_TByteList(CL);
13401:   SIRegister_TQuaternionList(CL);
13402:   Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13403:   Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13404:   Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13405: end;
13406:
13407: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13408: begin
13409:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13410:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13411:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList);
13412:   Procedure ConvertIndexedListToList( const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList );
13413:   Function BuildVectorCountOptimizedIndices( const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList
13414:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13415:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13416:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList )
13417:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13418:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13419:   Procedure RemapIndices( indices, indicesMap : TIntegerList )
13420:   Procedure UnifyTrianglesWinding( indices : TIntegerList )
13421:   Procedure InvertTrianglesWinding( indices : TIntegerList )
13422:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13423:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList ) : TIntegerList
13424:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single )
13425:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):TPersistentObjectList;
13426:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13427:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList;
normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13428: end;
13429:
13430: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13431: begin
13432:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte )
13433:   Procedure FreeMemAndNil( var P : TObject )
13434:   Function PCharOrNil( const S : string ) : PChar
13435:   SIRegister_TJclReferenceMemoryStream(CL);
13436:   FindClass('TOBJECT'), 'EJclVMTError
13437:   {Function GetVirtualMethodCount( AClass : TClass ) : Integer

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13438: Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13439: Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer )
13440:  PDynamicIndexList', '^TDynamicIndexList // will not work
13441:  PDynamicAddressList', '^TDynamicAddressList // will not work
13442: Function GetDynamicMethodCount( AClass : TClass ) : Integer
13443: Function GetDynamicIndexList( AClass : TClass ) : PDynamicIndexList
13444: Function GetDynamicAddressList( AClass : TClass ) : PDynamicAddressList
13445: Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13446: Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13447: Function GetInitTable( AClass : TClass ) : PTypeInfo
13448:  PFieldEntry', '^TFieldEntry // will not work)
13449: TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13450: Function JIsClass( Address : Pointer ) : Boolean
13451: Function JIsObject( Address : Pointer ) : Boolean
13452: Function GetImplementorOfInterface( const I : IInterface ) : TObject
13453: TDigitCount', 'Integer
13454: SIRegister_TJclNumericFormat(CL);
13455: Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13456: TTextHandler', 'Procedure ( const Text : string )
13457: // 'ABORT_EXIT_CODE', 'LongInt'( ERROR_CANCELLED 1223 );
13458: Function JExecute(const
CommandLine:string;OutputLineCallback:TTextHandler;RawOutput:Bool;AbortPtr:PBool):Card;
13459: Function JExecute1(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13460: Function ReadKey : Char //to and from the DOS console !
13461: TModuleHandle', 'HINST
13462: //TModuleHandle', 'Pointer
13463: 'INVALID_MODULEHANDLE_VALUE','LongInt'( TModuleHandle ( 0 ));
13464: Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13465: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13466: Procedure UnloadModule( var Module : TModuleHandle )
13467: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13468: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13469: Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size: Cardinal):Boolean;
13470: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13471: FindClass('TOBJECT'), 'EJclConversionError
13472: Function JStrToBoolean( const S : string ) : Boolean
13473: Function JBooleanToStr( B : Boolean ) : string
13474: Function JIntToBool( I : Integer ) : Boolean
13475: Function JBoolToInt( B : Boolean ) : Integer
13476: 'ListSeparator', 'String ';
13477: 'ListSeparator1', 'String :
13478: Procedure ListAddItems( var List : string; const Separator, Items : string )
13479: Procedure ListIncludeItems( var List : string; const Separator, Items : string )
13480: Procedure ListRemoveItems( var List : string; const Separator, Items : string )
13481: Procedure ListDeleteItem( var List : string; const Separator : string; const Index : Integer )
13482: Function ListItemCount( const List, Separator : string ) : Integer
13483: Function ListGetItem( const List, Separator : string; const Index : Integer ) : string
13484: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13485: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13486: Function SystemToObjectInstance : LongWord
13487: Function IsCompiledWithPackages : Boolean
13488: Function JJclGUIDToString( const GUID : TGUID ) : string
13489: Function JJclStringToGUID( const S : string ) : TGUID
13490: SIRegister_TJclIntfCriticalSection(CL);
13491: SIRegister_TJclSimpleLog(CL);
13492: Procedure InitSimpleLog( const ALogFileFileName : string )
13493: end;
13494:
13495: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13496: begin
13497:  FindClass('TOBJECT'), 'EJclBorRADException
13498:  TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13499:  TJclBorRADToolEdition', '( (deOPEN, dePRO, deSVR )
13500:  TJclBorRADToolEdition', '( (deSTD, dePRO, deCSS, deARC )
13501:  TJclBorRADToolPath', 'string
13502: 'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13503: 'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11);
13504: 'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5);
13505: BorRADToolRepositoryPagesSection', 'String 'Repository Pages
13506: BorRADToolRepositoryDialogsPage', 'String 'Dialogs
13507: BorRADToolRepositoryFormsPage', 'String 'Forms
13508: BorRADToolRepositoryProjectsPage', 'String 'Projects
13509: BorRADToolRepositoryDataModulesPage', 'String 'Data Modules
13510: BorRADToolRepositoryObjectType', 'String 'Type
13511: BorRADToolRepositoryFormTemplate', 'String 'FormTemplate
13512: BorRADToolRepositoryProjectTemplate', 'String 'ProjectTemplate
13513: BorRADToolRepositoryObjectName', 'String 'Name
13514: BorRADToolRepositoryObjectPage', 'String 'Page
13515: BorRADToolRepositoryObjectIcon', 'String 'Icon
13516: BorRADToolRepositoryObjectDescr', 'String 'Description
13517: BorRADToolRepositoryObjectAuthor', 'String 'Author
13518: BorRADToolRepositoryObjectAncestor', 'String 'Ancestor
13519: BorRADToolRepositoryObjectDesigner', 'String 'Designer
13520: BorRADToolRepositoryDesignerDfm', 'String 'dfm
13521: BorRADToolRepositoryDesignerXfm', 'String 'xfm
13522: BorRADToolRepositoryObjectNewForm', 'String 'DefaultNewForm
13523: BorRADToolRepositoryObjectMainForm', 'String 'DefaultMainForm
13524: SourceExtensionDelphiPackage', 'String '.dpk
13525: SourceExtensionBCBPackage', 'String '.bpk

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13526: SourceExtensionDelphiProject', 'String '.dpr
13527: SourceExtensionBCBProject', 'String '.bpr
13528: SourceExtensionBDSPProject', 'String '.bdsproj
13529: SourceExtensionDProject', 'String '.dproj
13530: BinaryExtensionPackage', 'String '.bpl
13531: BinaryExtensionLibrary', 'String '.dll
13532: BinaryExtensionExecutable', 'String '.exe
13533: CompilerExtensionDCP', 'String '.dcp
13534: CompilerExtensionBPI', 'String '.bpi
13535: CompilerExtensionLIB', 'String '.lib
13536: CompilerExtensionTDS', 'String '.tds
13537: CompilerExtensionMAP', 'String '.map
13538: CompilerExtensionDRC', 'String '.drc
13539: CompilerExtensionDEF', 'String '.def
13540: SourceExtensionCPP', 'String '.cpp
13541: SourceExtensionH', 'String '.h
13542: SourceExtensionPAS', 'String '.pas
13543: SourceExtensionDFM', 'String '.dfm
13544: SourceExtensionXFM', 'String '.xfm
13545: SourceDescriptionPAS', 'String 'Pascal source file
13546: SourceDescriptionCPP', 'String 'C++ source file
13547: DesignerVCL', 'String 'VCL
13548: DesignerCLX', 'String 'CLX
13549: ProjectTypePackage', 'String 'package
13550: ProjectTypeLibrary', 'String 'library
13551: ProjectTypeProgram', 'String 'program
13552: Personality32Bit', 'String '32 bit
13553: Personality64Bit', 'String '64 bit
13554: PersonalityDelphi', 'String 'Delphi
13555: PersonalityDelphiDotNet', 'String 'Delphi.net
13556: PersonalityBCB', 'String 'C++Builder
13557: PersonalityCSB', 'String 'C#Builder
13558: PersonalityVB', 'String 'Visual Basic
13559: PersonalityDesign', 'String 'Design
13560: PersonalityUnknown', 'String 'Unknown personality
13561: PersonalityBDS', 'String 'Borland Developer Studio
13562: DOFDirectoriesSection', 'String 'Directories
13563: DOFUnitOutputDirKey', 'String 'UnitOutputDir
13564: DOFSearchPathName', 'String 'SearchPath
13565: DOFConditionals', 'String 'Conditionals
13566: DOFLinkerSection', 'String 'Linker
13567: DOFPackagesKey', 'String 'Packages
13568: DOFCompilerSection', 'String 'Compiler
13569: DOFPackageNoLinkKey', 'String 'PackageNoLink
13570: DOFAdditionalSection', 'String 'Additional
13571: DOFOptionsKey', 'String 'Options
13572: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13573: + 'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13574: + 'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13575: TJclBorPersonalities', 'set of TJclBorPersonality
13576: TJclBorDesigner', '( bdVCL, bdCLX )
13577: TJclBorDesigners', 'set of TJclBorDesigner
13578: TJclBorPlatform', '( bp32bit, bp64bit )
13579: FindClass('TOBJECT'), TJclBorRADToolInstallation
13580: SIRegister_TJclBorRADToolInstallationObject(CL);
13581: SIRegister_TJclBorlandOpenHelp(CL);
13582: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13583: TJclHelp2Objects', 'set of TJclHelp2Object
13584: SIRegister_TJclHelp2Manager(CL);
13585: SIRegister_TJclBorRADToolIDETool(CL);
13586: SIRegister_TJclBorRADToolIDEPackages(CL);
13587: SIRegister_TJclCommandLineTool(CL);
13588: FindClass('TOBJECT'), EJclCommandLineToolError
13589: SIRegister_TJclCommandLineTool(CL);
13590: SIRegister_TJclBorlandCommandLineTool(CL);
13591: SIRegister_TJclBCC32(CL);
13592: SIRegister_TJclDCC32(CL);
13593: TJclDCC', TJclDCC32
13594: SIRegister_TJclBpr2Mak(CL);
13595: SIRegister_TJclBorlandMake(CL);
13596: SIRegister_TJclBorRADToolPalette(CL);
13597: SIRegister_TJclBorRADToolRepository(CL);
13598: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13599: TCommandLineTools', 'set of TCommandLineTool
13600: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13601: SIRegister_TJclBorRADToolInstallation(CL);
13602: SIRegister_TJclBCBInstallation(CL);
13603: SIRegister_TJclDelphiInstallation(CL);
13604: SIRegister_TJclDCCIL(CL);
13605: SIRegister_TJclBDSInstallation(CL);
13606: TTraverseMethod', Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13607: SIRegister_TJclBorRADToolInstallations(CL);
13608: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13609: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13610: Function IsDelphiPackage( const FileName : string ) : Boolean
13611: Function IsDelphiProject( const FileName : string ) : Boolean
13612: Function IsBCBPackage( const FileName : string ) : Boolean
13613: Function IsBCBProject( const FileName : string ) : Boolean
13614: Procedure GetDPRFileInfo(const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString);

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13615: Procedure GetBPRFileInfo(const BPRFileName:string;out BinaryFileName:string;const Descript:PString);
13616: Procedure GetDPKFileInfo(const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13617: Procedure GetBPKFileInfo(const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13618: function SamePath(const Path1, Path2: string): Boolean;
13619: end;
13620:
13621: procedure SIRegister_JclFileUtils_max(CL: TPSCompiler);
13622: begin
13623:   'ERROR_NO_MORE_FILES', LongInt'( 18 );
13624:   //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13625:   //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13626:   //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13627:   'LPathSeparator','String '/'
13628:   'LDirDelimiter','String '
13629:   'LDirSeparator','String :
13630:   'JXPathDevicePrefix','String '\\.\\
13631:   'JXPathSeparator','String \\
13632:   'JXDirDelimiter','String \
13633:   'JXDirSeparator','String ';
13634:   'JXPathUncPrefix','String \\
13635:   'faNormalFile','LongWord')( $00000080 );
13636:   //'faUnixSpecific',' faSymLink';
13637:   JXTCompactPath', '( cpCenter, cpEnd )
13638:     _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13639:     +'tCreationTime: TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime :'
13640:     +' TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13641:   TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13642:   WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13643:
13644: Function jxPathAddSeparator( const Path : string ) : string
13645: Function jxPathAddExtension( const Path, Extension : string ) : string
13646: Function jxPathAppend( const Path, Append : string ) : string
13647: Function jxPathBuildRoot( const Drive : Byte ) : string
13648: Function jxPathCanonicalize( const Path : string ) : string
13649: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13650: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13651: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
13652: Function jxPathExtractFileDirFixed( const S : string ) : string
13653: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13654: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13655: Function jxPathGetDepth( const Path : string ) : Integer
13656: Function jxPathGetLongName( const Path : string ) : string
13657: Function jxPathGetShortName( const Path : string ) : string
13658: Function jxPathGetLongName( const Path : string ) : string
13659: Function jxPathGetShortName( const Path : string ) : string
13660: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13661: Function jxPathGetTempPath : string
13662: Function jxPathIsAbsolute( const Path : string ) : Boolean
13663: Function jxPathIsChild( const Path, Base : string ) : Boolean
13664: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13665: Function jxPathIsUNC( const Path : string ) : Boolean
13666: Function jxPathRemoveSeparator( const Path : string ) : string
13667: Function jxPathRemoveExtension( const Path : string ) : string
13668: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13669: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13670: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13671: JxTFileListOptions', 'set of TFileListOption
13672: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13673: TFileHandler', 'Procedure ( const FileName : string )
13674: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec )
13675: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13676: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
FileMatchFunc:TFileMatchFunc):Bool;
13677: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13678: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13679: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13680: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13681: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13682: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
IncludeHiddenDirects:Boolean;const SubdirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13683: Procedure jxCreateEmptyFile( const FileName : string )
13684: Function jxCloseVolume( var Volume : THandle ) : Boolean
13685: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13686: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13687: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13688: Function jxDelTree( const Path : string ) : Boolean
13689: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13690: Function jxDiskInDrive( Drive : Char ) : Boolean
13691: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13692: Function jxFileCreateTemp( var Prefix : string ) : THandle
13693: Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13694: Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13695: Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13696: Function jxFileExists( const FileName : string ) : Boolean
13697: Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean

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13698: Function jxFileRestore( const FileName : string ) : Boolean
13699: Function jxGetBackupFileName( const FileName : string ) : string
13700: Function jxIsBackupFileName( const FileName : string ) : Boolean
13701: Function jxFileGetDisplayName( const FileName : string ) : string
13702: Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13703: Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13704: Function jxFileGetSize( const FileName : string ) : Int64
13705: Function jxFileGetTempName( const Prefix : string ) : string
13706: Function jxFileGetType( const FileName : string ) : string
13707: Function jxFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string) : string
13708: Function jxForceDirectories( Name : string ) : Boolean
13709: Function jxGetDirectorySize( const Path : string ) : Int64
13710: Function jxGetDriveTypeStr( const Drive : Char ) : string
13711: Function jxGetFileAgeCoherence( const FileName : string ) : Boolean
13712: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer )
13713: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer )
13714: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13715: Function jxGetFileInfo1( const FileName : string ) : TSearchRec;
13716: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
  ResolveSymLinks:Boolean):Integer
13717: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13718: Function jxGetFileLastWritel( const FName : string; out LocalTime : TDateTime ) : Boolean;
13719: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13720: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13721: Function jxGetFileCreation( const FName : string ) : TFileTime;
13722: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13723: Function jxGetFileLastWrite( const FName : string; outTimeStamp:Integer;ResolveSymLinks : Bool ):Bool;
13724: Function jxGetFileLastWritel( const FName : string; out LocalTime:TDateTime;ResolveSymLinks:Bool ):Bool;
13725: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13726: Function jxGetFileLastAccess( const FName : string; out TimeStamp:Integer;ResolveSymLinks : Bool ) : Bool;
13727: Function jxGetFileLastAccess1( const FName : string; out LocalTime:TDateTime;ResolveSymLinks:Bool ) : Bool;
13728: Function jxGetFileLastAccess2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13729: Function jxGetFileLastAttrChange( const FName : string; out TimeStamp:Integer;ResolveSymLinks:Bool ) : Bool;
13730: Function jxGetFileLastAttrChangel( const FName : string; out LocalTime:TDateTime;ResolveSymLinks:Bool ) : Bool;
13731: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13732: Function jxGetModulePath( const Module : HMODULE ) : string
13733: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13734: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13735: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13736: Function jxGetStandardFileInfo( const FileName : string ) : TWIn32FileInfoAttributeData
13737: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean
13738: Function jxIsRootDirectory( const CanonicFileName : string ) : Boolean
13739: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean
13740: Function jxOpenVolume( const Drive : Char ) : THandle
13741: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
13742: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
13743: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
13744: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
13745: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
13746: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
13747: Procedure jxShredFile( const FileName : string; Times : Integer )
13748: Function jxUnlockVolume( var Handle : THandle ) : Boolean
13749: Function jxCreateSymbolicLink( const Name, Target : string ) : Boolean
13750: Function jxSymbolicLinkTarget( const Name : string ) : string
13751: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )
13752: SIRegister_TJclCustomFileAttrMask(CL);
13753: SIRegister_TJclFileAttributeMask(CL);
13754: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHiddenS'
13755: +'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)
13756: TFileSearchOptions', 'set of TFileSearchOption
13757: TFileSearchTaskID', 'Integer
13758: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc'
13759: +'hTaskID; const Aborted : Boolean)
13760: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )
13761: SIRegister_IJclFileEnumerator(CL);
13762: SIRegister_TJclFileEnumerator(CL);
13763: Function JxFileSearch : IJclFileEnumerator
13764: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )
13765: JxTFileFlags', 'set of TFileFlag
13766: FindClass('TOBJECT','EJclFileVersionInfoError
13767: SIRegister_TJclFileVersionInfo(CL);
13768: Function jxOSIdentToString( const OSIdent : DWORD ) : string
13769: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
13770: Function jxVersionResourceAvailable( const FileName : string ) : Boolean
13771: TFileVersionFormat', '( vfMajorMinor, vfFull )
13772: Function jxFormatVersionString( const HiV, LoV : Word ) : string;
13773: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13774: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo;VersionFormat:TFileVersionFormat):str;
13775: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13776: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
  Revision:Word);
13777: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo ) : Boolean
13778: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
  NotAvailableText : string ) : string
13779: SIRegister_TJclTempFileStream(CL);
13780: FindClass('TOBJECT','TJclCustomFileMapping
13781: SIRegister_TJclFileMappingView(CL);
13782: TJclFileMappingRoundOffset', '( rvDown, rvUp )
13783: SIRegister_TJclCustomFileMapping(CL);

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13784: SIRegister_TJclFileMapping(CL);
13785: SIRegister_TJclSwapFileMapping(CL);
13786: SIRegister_TJclFileMappingStream(CL);
13787: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )
13788: //PPCharArray', '^TPCharArray // will not work
13789: SIRegister_TJclMappedTextReader(CL);
13790: SIRegister_TJclFileMaskComparator(CL);
13791: FindClass('TOBJECT'), 'EJclPathError
13792: FindClass('TOBJECT'), 'EJclFileUtilsError
13793: FindClass('TOBJECT'), 'EJclTempFileStreamError
13794: FindClass('TOBJECT'), 'EJclTempFileStreamError
13795: FindClass('TOBJECT'), 'EJclFileMappingError
13796: FindClass('TOBJECT'), 'EJclFileMappingViewError
13797: Function jxPathGetLongName2( const Path : string ) : string
13798: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13799: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean
13800: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13801: Function jxWin32RestoreFile( const FileName : string ) : Boolean
13802: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13803: Procedure jxPathListAddItems( var List : string; const Items : string )
13804: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13805: Procedure jxPathListDelItems( var List : string; const Items : string )
13806: Procedure jxPathListDelItem( var List : string; const Index : Integer )
13807: Function jxPathListItemCount( const List : string ) : Integer
13808: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13809: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13810: Function jxPathListItemIndex( const List, Item : string ) : Integer
13811: Function jxParamName( Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool ):string;
13812: Function jxParamValue( Index : Integer; const Separator : string; TrimValue : Boolean ) : string;
13813: Function jxParamValue1( const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string; TrimValue : Boolean ) : string;
13814: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string ) : Integer
13815: end;
13816:
13817: procedure SIRegister_FileUtil(CL: TPSPPascalCompiler);
13818: begin
13819:   'UTF8FileHeader', 'String #$ef#$bb#$bf';
13820:   Function lCompareFilenames( const Filenamel, Filename2 : string ) : integer
13821:   Function lCompareFilenamesIgnoreCase( const Filenamel, Filename2 : string ) : integer
13822:   Function lCompareFilenames( const Filenamel, Filename2 : string; ResolveLinks : boolean ) : integer
13823:   Function lCompareFilenames(Filenamel:PChar;Len1:int;Filename2:PChar;Len2:int;ResolveLinks:boolean):int;
13824:   Function lFilenameIsAbsolute( const TheFilename : string ) : boolean
13825:   Function lFilenameIsWinAbsolute( const TheFilename : string ) : boolean
13826:   Function lFilenameIsUnixAbsolute( const TheFilename : string ) : boolean
13827:   Procedure lCheckIfFileIsExecutable( const Afilename : string )
13828:   Procedure lCheckIfFileIsSymlink( const Afilename : string )
13829:   Function lFileIsReadable( const Afilename : string ) : boolean
13830:   Function lFileIsWritable( const Afilename : string ) : boolean
13831:   Function lFileIsText( const Afilename : string ) : boolean
13832:   Function lFileIsText( const Afilename : string; out FileReadable : boolean ) : boolean
13833:   Function lFileIsExecutable( const Afilename : string ) : boolean
13834:   Function lFileIsSymlink( const Afilename : string ) : boolean
13835:   Function lFileIsHardLink( const Afilename : string ) : boolean
13836:   Function lFileSize( const Filename : string ) : int64;
13837:   Function lGetFileDescription( const Afilename : string ) : string
13838:   Function lReadAllLinks( const Filename : string; ExceptionOnError : boolean ) : string
13839:   Function lTryReadAllLinks( const Filename : string ) : string
13840:   Function lDirPathExists( const FileName : String ) : Boolean
13841:   Function lForceDirectory( DirectoryName : string ) : boolean
13842:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13843:   Function lProgramDirectory : string
13844:   Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13845:   Function lExtractFileNameOnly( const Afilename : string ) : string
13846:   Function lExtractFileNameWithoutExt( const Afilename : string ) : string
13847:   Function lCompareFileExt( const Filename, Ext : string; CaseSensitive : boolean ) : integer;
13848:   Function lCompareFileExt( const Filename, Ext : string ) : integer;
13849:   Function lFilenameIsPascalUnit( const Filename : string ) : boolean
13850:   Function lAppendPathDelim( const Path : string ) : string
13851:   Function lChompPathDelim( const Path : string ) : string
13852:   Function lTrimFilename( const Afilename : string ) : string
13853:   Function lCleanAndExpandFilename( const Filename : string ) : string
13854:   Function lCreateAbsoluteDirectory( const Filename : string ) : string
13855:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13856:   Function lCreateRelativePath( const Filename, BaseDirectory : string; UsePointDirectory : boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
13857:   Function lCreateAbsolutePath( const Filename, BaseDirectory : string ) : string
13858:   Function lFileIsInPath( const Filename, Path : string ) : boolean
13859:   Function lFileIsInDirectory( const Filename, Directory : string ) : boolean
13860:   TSearchFileInPathFlag', '( sffDontSearchInBasePath, sffSearchLoUpCase )
13861:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13862:   'AllDirectoryEntriesMask', 'String *'
13863:   Function l GetAllFilesMask : string
13864:   Function lGetExeExt : string
13865:   Function lSearchFileInPath( const Filename, basePath, SearchPath, Delimiter : string; Flags : TSearchFileInPathFlags ) : string
13866:   Function lSearchAllFilesInPath( const Filename, basePath, SearchPath, Delimiter:string;Flags : TSearchFileInPathFlags ) : TStrings
13867:   Function lFindDiskFilename( const Filename : string ) : string

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13868: Function lFindDiskFileCaseInsensitive( const Filename : string ) : string
13869: Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13870: Function lGetDarwinSystemFilename( Filename : string ) : string
13871: SIRegister_TfileIterator(CL);
13872: TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13873: TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator)
13874: TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator)
13875: SIRegister_TfileSearcher(CL);
13876: Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13877: Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
13878: // 'TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13879: // 'TCopyFileFlags', 'set of TCopyFileFlag
13880: Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13881: Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13882: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13883: Function lReadFileToString( const Filename : string) : string
13884: Function lGetTempFilename( const Directory, Prefix : string) : string
13885: {Function NeedRTLAnsi : boolean
13886: Procedure SetNeedRTLAnsi( NewValue : boolean)
13887: Function UTF8ToSys( const s : string) : string
13888: Function SysToUTF8( const s : string) : string
13889: Function ConsoleToUTF8( const s : string) : string
13890: Function UTF8ToConsole( const s : string) : string
13891: Function FileExistsUTF8( const FileName : string) : boolean
13892: Function FileAgeUTF8( const FileName : string) : Longint
13893: Function DirectoryExistsUTF8( const Directory : string) : Boolean
13894: Function ExpandFileNameUTF8( const FileName : string) : string
13895: Function ExpandUNCFileNameUTF8( const FileName : string) : string
13896: Function ExtractShortPathNameUTF8( const FileName : String) : String
13897: Function FindFirstUTF8( const Path: string; Attr : Longint; out Rslt : TSearchRec ) : Longint
13898: Function FindNextUTF8( var Rslt : TSearchRec ) : Longint
13899: Procedure FindCloseUTF8( var F : TSearchrec)
13900: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
13901: Function FileGetAttrUTF8( const FileName : String) : Longint
13902: Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
13903: Function DeleteFileUTF8( const FileName : String) : Boolean
13904: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
13905: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
13906: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
13907: Function GetCurrentDirUTF8 : String
13908: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
13909: Function CreateDirUTF8( const NewDir : String) : Boolean
13910: Function RemoveDirUTF8( const Dir : String) : Boolean
13911: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13912: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13913: Function FileCreateUTF8( const FileName : string) : THandle;
13914: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
13915: Function ParamStrUTF8( Param : Integer) : string
13916: Function GetEnvironmentStringUTF8( Index : Integer) : string
13917: Function GetEnvironmentVariableUTF8( const EnvVar : string) : String
13918: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
13919: Function GetAppConfigFileUTF8(Global:Boolean; SubDir:boolean; CreateDir : boolean) : string
13920: Function SysErrorMessageUTF8( ErrorCode : Integer) : String
13921: end;
13922:
13923: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13924: begin
13925:   //VK_F23 = 134;
13926:   //{$EXTERNALSYM VK_F24}
13927:   //VK_F24 = 135;
13928:   TVirtualKeyCode', 'Integer
13929:   'VK_MOUSEWHEELUP','integer'(134);
13930:   'VK_MOUSEWHEELDOWN','integer'(135);
13931:   Function glIsKeyDown( c : Char) : Boolean;
13932:   Function glIsKeyDown1( vk : TVirtualKeyCode) : Boolean;
13933:   Function glKeyPressed( minVkCode : TVirtualKeyCode) : TVirtualKeyCode
13934:   Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode) : String
13935:   Function glKeyNameToVirtualKeyCode( const keyName : String) : TVirtualKeyCode
13936:   Function glCharToVirtualKeyCode( c : Char) : TVirtualKeyCode
13937:   Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer)
13938: end;
13939:
13940: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13941: begin
13942:   TGLPoint', 'TPoint
13943:   //PGLPoint', '^TGLPoint // will not work
13944:   TGLRect', 'TRect
13945:   //PGLRect', '^TGLRect // will not work
13946:   TDelphiColor', 'TColor
13947:   TGLPicture', 'TPicture
13948:   TGLGraphic', 'TGraphic
13949:   TGLBitmap', 'TBitmap
13950:   //TGraphicClass', 'class of TGraphic
13951:   TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13952:   TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13953:   TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13954:     +'Button; Shift : TShiftState; X, Y : Integer)
13955:   TGLMouseMoveEvent', 'TMouseEvent
13956:   TGLKeyEvent', 'TKeyEvent

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13957: TGLKeyPressEvent', 'TKeyPressEvent
13958: EGLOSError', 'EWin32Error
13959: EGLOSError', 'EWin32Error
13960: EGLOSError', 'EOSError
13961: 'glsAllFilter', 'string'All // sAllFilter
13962: Function GLPoint( const x, y : Integer ) : TGLPoint
13963: Function GLRGB( const r, g, b : Byte ) : TColor
13964: Function GLColorToRGB( color : TColor ) : TColor
13965: Function GLGetRValue( rgb : DWORD ) : Byte
13966: Function GLGetGValue( rgb : DWORD ) : Byte
13967: Function GLGetBValue( rgb : DWORD ) : Byte
13968: Procedure GLInitWinColors
13969: Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
13970: Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer )
13971: Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
13972: Procedure GLInformationDlg( const msg : String )
13973: Function GLQuestionDlg( const msg : String ) : Boolean
13974: Function GLInputDlg( const aCaption, aPrompt, aDefault : String ) : String
13975: Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13976: Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13977: Function GLApplicationTerminated : Boolean
13978: Procedure GLRaiseLastOSError
13979: Procedure GLFreeAndNil( var anObject : TObject )
13980: Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
13981: Function GLGetCurrentColorDepth : Integer
13982: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
13983: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
13984: Procedure GLSleep( length : Cardinal )
13985: Procedure GLQueryPerformanceCounter( var val : Int64 )
13986: Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
13987: Function GLStartPrecisionTimer : Int64
13988: Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
13989: Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
13990: Function GLRTSC : Int64
13991: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
13992: Function GLOKMessageBox( const Text, Caption : string ) : Integer
13993: Procedure GLShowHTMLUrl( Url : String )
13994: Procedure GLShowCursor( AShow : boolean )
13995: Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
13996: Procedure GLGetCursorPos( var point : TGLPoint )
13997: Function GLGetScreenWidth : integer
13998: Function GLGetScreenHeight : integer
13999: Function GLGetTickCount : int64
14000: function RemoveSpaces(const str : String) : String;
14001: TNormalMapSpace', '( nmsObject, nmsTangent )
14002: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
14003: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList )
14004: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectorList )
14005: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
HiTexCoords:TAffineVectorList):TGLBitmap
14006: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
14007: end;
14008:
14009: procedure SIRegister_GLStarRecord(CL: TPPascalCompiler);
14010: begin
14011:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
14012: // PGLStarRecord', '^TGLStarRecord // will not work
14013: Function StarRecordPositionZUp( const starRecord : TGLStarRecord ) : TAffineVector
14014: Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
14015: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
14016: end;
14017:
14018:
14019: procedure SIRegister_GeometryBB(CL: TPPascalCompiler);
14020: begin
14021:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14022: //PAABB', '^TAABB // will not work
14023: TBSphere', 'record Center : TAffineVector; Radius : single; end
14024: TClipRect', 'record Left: Single; Top:Single; Right:Single; Bottom : Single; end
14025: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14026: Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14027: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB )
14028: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
14029: Procedure SetAABB( var bb : TAABB; const v : TVector )
14030: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix )
14031: Procedure AABBTransform( var bb : TAABB; const m : TMatrix )
14032: Procedure AABBSScale( var bb : TAABB; const v : TAffineVector )
14033: Function BBMinX( const c : THmgBoundingBox ) : Single
14034: Function BBMaxX( const c : THmgBoundingBox ) : Single
14035: Function BBMinY( const c : THmgBoundingBox ) : Single
14036: Function BBMaxY( const c : THmgBoundingBox ) : Single
14037: Function BBMinZ( const c : THmgBoundingBox ) : Single
14038: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14039: Procedure AABBInclude( var bb : TAABB; const p : TAffineVector )
14040: Procedure AABBFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14041: Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14042: Function BBTxAABB( const aBB : THmgBoundingBox ) : TAABB

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14043: Function AABBToBB( const anAABB : TAABB ) : THmgBoundingBox;
14044: Function AABBToBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox;
14045: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14046: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14047: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2Tol : TMatrix ) : Boolean;
14048: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean;
14049: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean;
14050: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean;
14051: Function AABBFitInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean;
14052: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14053: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14054: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean;
14055: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean;
14056: Procedure ExtractAABB_corners( const aabb : TAABB; var AABBCorners : TAABBCorners );
14057: Procedure AABBToBSphere( const aabb : TAABB; var BSphere : TBSphere );
14058: Procedure BSphereToAABB( const BSphere : TBSphere; var aabb : TAABB );
14059: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14060: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14061: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains;
14062: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains;
14063: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains;
14064: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains;
14065: Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
testBSphere:TBSphere ):TSpaceContains;
14066: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains;
14067: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains;
14068: Function ClipToAABB( const v : TAffineVector; const aabb : TAABB ) : TAffineVector;
14069: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean;
14070: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single );
14071: Function AABBToClipRect( const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
viewportSizeY:Int ):TClipRect;
14072: end;
14073:
14074: procedure SIRegister_GeometryCoordinates(CL: TPSPPascalCompiler);
14075: begin
14076: Procedure Cylindrical_Cartesian( const r, theta, z1 : single; var x, y, z : single );
14077: Procedure Cylindrical_Cartesian1( const r, theta, z1 : double; var x, y, z : double );
14078: Procedure Cylindrical_Cartesian2( const r,theta,z1 : single; var x, y, z : single; var ierr : integer );
14079: Procedure Cylindrical_Cartesian3( const r,theta,z1 : double; var x, y, z : double; var ierr : integer );
14080: Procedure Cartesian_Cylindrical( const x, y, z1 : single; var r, theta, z : single );
14081: Procedure Cartesian_Cylindrical1( const x, y, z1 : double; var r, theta, z : double );
14082: Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single );
14083: Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double );
14084: Procedure Spherical_Cartesian2( const r,theta,phi : single; var x, y, z : single; var ierr : integer );
14085: Procedure Spherical_Cartesian3( const r,theta,phi : double; var x, y, z : double; var ierr : integer );
14086: Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single );
14087: Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single );
14088: Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double );
14089: Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14090: Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14091: Procedure ProlateSpheroidal_Cartesian2( const xi, eta, phi, a:single;var x,y,z:single;var ierr: integer );
14092: Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer );
14093: Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14094: Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14095: Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single; var x,y,z:single;var ierr:integer );
14096: Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double; var x,y,z:double;var ierr:integer );
14097: Procedure BipolarCylindrical_Cartesian( const u, v, z1, a : single; var x, y, z : single );
14098: Procedure BipolarCylindrical_Cartesian1( const u, v, z1, a : double; var x, y, z : double );
14099: Procedure BipolarCylindrical_Cartesian2( const u,v,z1,a: single;var x,y,z:single; var ierr : integer );
14100: Procedure BipolarCylindrical_Cartesian3( const u,v,z1,a: double;var x,y,z:double; var ierr : integer );
14101: end;
14102:
14103: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14104: begin
14105: 'EPSILON','Single').setExtended( 1e-40 );
14106: 'EPSILON2','Single').setExtended( 1e-30 ); }
14107: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14108: + 'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14109: THmgPlane', 'TVector
14110: TDoubleHmgPlane', 'THomogeneousDblVector
14111: {TTTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear
14112: +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14113: +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW ) }
14114: TSingleArray', 'array of Single
14115: TTransformations', 'array [0..15] of Single)
14116: TPackedRotationMatrix', 'array [0..2] of Smallint)
14117: TVertex', 'TAffineVector
14118: //TVectorGL', 'THomogeneousFltVector
14119: //TMatrixGL', 'THomogeneousFltMatrix
14120: // TPackedRotationMatrix = array [0..2] of SmallInt;
14121: Function glTexPointMake( const s, t : Single ) : TTExPoint;
14122: Function glAffineVectorMake( const x, y, z : Single ) : TAffineVector;
14123: Function glAffineVectorMakeL( const v : TVectorGL ) : TAffineVector;
14124: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single );
14125: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single );
14126: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL );
14127: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector );
14128: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector );
14129: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL );

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14130: Function glVectorMake( const v : TAffineVector; w : Single ) : TVectorGL;
14131: Function glVectorMake1( const x, y, z : Single; w : Single ) : TVectorGL;
14132: Function glPointMake( const x, y, z : Single ) : TVectorGL;
14133: Function glPointMake1( const v : TAffineVector ) : TVectorGL;
14134: Function glPointMake2( const v : TVectorGL ) : TVectorGL;
14135: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single );
14136: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single );
14137: Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL );
14138: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single );
14139: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector );
14140: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL );
14141: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single );
14142: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single );
14143: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector );
14144: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL );
14145: Procedure glRstVector( var v : TAffineVector );
14146: Procedure glRstVector1( var v : TVectorGL );
14147: Function glVectorAdd( const v1, v2 : TAffineVector ) : TAffineVector;
14148: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector );
14149: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector );
14150: Function glVectorAdd3( const v1, v2 : TVectorGL ) : TVectorGL;
14151: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL );
14152: Function glVectorAdd5( const v : TAffineVector; const f : Single ) : TAffineVector;
14153: Function glVectorAdd6( const v : TVectorGL; const f : Single ) : TVectorGL;
14154: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector );
14155: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL );
14156: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL );
14157: Procedure glAddVector10( var v : TAffineVector; const f : Single );
14158: Procedure glAddVector11( var v : TVectorGL; const f : Single );
14159: //Procedure TexPointArrayAdd(const src:PTexPointArray,const delta:TTexPoint,const nb:Int;dest:PTexPointArray);
14160: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray,const delta:TTexPoint,const nb:Integer,const scale:TTexPoint; dest : PTExPointArray);
14161: //Procedure VectorArrayAdd(const src:PAffineVectorArray,const delta:TAffineVector,const nb:Integer;dest:PAffineVectorArray);
14162: Function glVectorSubtract( const V1, V2 : TAffineVector ) : TAffineVector;
14163: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector );
14164: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL );
14165: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL );
14166: Function glVectorSubtract4( const V1, V2 : TVectorGL ) : TVectorGL;
14167: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL );
14168: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector );
14169: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single ) : TAffineVector;
14170: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single ) : TVectorGL;
14171: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector );
14172: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL );
14173: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single );
14174: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat );
14175: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single ) : TTexPoint;
14176: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single ) : TAffineVector;
14177: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single ) : TAffineVector;
14178: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector );
14179: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single );
14180: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single );
14181: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single ) : TVectorGL;
14182: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1,F2:Single ) : TVectorGL;
14183: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL );
14184: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL );
14185: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL );
14186: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single ) : TVectorGL;
14187: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL );
14188: Function glVectorDotProduct( const V1, V2 : TAffineVector ) : Single;
14189: Function glVectorDotProduct1( const V1, V2 : TVectorGL ) : Single;
14190: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector ) : Single;
14191: Function glPointProject( const p, origin, direction : TAffineVector ) : Single;
14192: Function glPointProject1( const p, origin, direction : TVectorGL ) : Single;
14193: Function glVectorCrossProduct( const V1, V2 : TAffineVector ) : TAffineVector;
14194: Function glVectorCrossProduct1( const V1, V2 : TVectorGL ) : TVectorGL;
14195: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL );
14196: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL );
14197: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector );
14198: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector );
14199: Function glLerp( const start, stop, t : Single ) : Single;
14200: Function glAngleLerp( start, stop, t : Single ) : Single;
14201: Function glDistanceBetweenAngles( angle1, angle2 : Single ) : Single;
14202: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single ) : TTexPoint;
14203: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14204: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector );
14205: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single ) : TVectorGL;
14206: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL );
14207: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14208: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single ) : TAffineVector;
14209: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray );
14210: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest : PAffineVectorArray );
14211: Function glVectorLength( const x, y : Single ) : Single;
14212: Function glVectorLength1( const x, y, z : Single ) : Single;
14213: Function glVectorLength2( const v : TAffineVector ) : Single;
14214: Function glVectorLength3( const v : TVectorGL ) : Single;

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14215: Function glVectorLength4( const v : array of Single) : Single;
14216: Function glVectorNorm( const x, y : Single) : Single;
14217: Function glVectorNorm1( const v : TAffineVector) : Single;
14218: Function glVectorNorm2( const v : TVectorGL) : Single;
14219: Function glVectorNorm3( var V : array of Single) : Single;
14220: Procedure glNormalizeVector( var v : TAffineVector);
14221: Procedure glNormalizeVector1( var v : TVectorGL);
14222: Function glVectorNormalize( const v : TAffineVector) : TAffineVector;
14223: Function glVectorNormalize1( const v : TVectorGL) : TVectorGL;
14224: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer);
14225: Function glVectorAngleCosine( const V1, V2 : TAffineVector) : Single;
14226: Function glVectorNegate( const v : TAffineVector) : TAffineVector;
14227: Function glVectorNegate1( const v : TVectorGL) : TVectorGL;
14228: Procedure glNegateVector( var V : TAffineVector);
14229: Procedure glNegateVector2( var V : TVectorGL);
14230: Procedure glNegateVector3( var V : array of Single);
14231: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14232: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14233: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14234: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14235: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14236: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14237: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14238: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14239: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14240: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14241: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14242: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14243: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14244: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14245: Function glVectorIsNull1( const v : TAffineVector) : Boolean;
14246: Function glVectorSpacing( const v1, v2 : TTExPoint) : Single;
14247: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14248: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14249: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14250: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14251: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14252: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14253: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector;
14254: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector;
14255: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);
14256: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14257: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single);
14258: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14259: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14260: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14261: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14262: Procedure glAbsVector( var v : TVectorGL);
14263: Procedure glAbsVector1( var v : TAffineVector);
14264: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14265: Function glVectorAbsl( const v : TAffineVector) : TAffineVector;
14266: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14267: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14268: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14269: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14270: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14271: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14272: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14273: Function glCreateTranslationMatrix1( const V : TVectorGL) : TMatrixGL;
14274: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;
14275: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14276: Function glCreateRotationMatrixX1( const angle : Single) : TMatrixGL;
14277: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14278: Function glCreateRotationMatrixY1( const angle : Single) : TMatrixGL;
14279: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14280: Function glCreateRotationMatrixZ1( const angle : Single) : TMatrixGL;
14281: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14282: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14283: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix;
14284: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14285: Function glMatrixMultiply1( const M1, M2 : TMatrixGL) : TMatrixGL;
14286: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14287: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14288: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14289: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14290: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14291: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14292: Function glMatrixDeterminant1( const M : TMatrixGL) : Single;
14293: Procedure glAdjointMatrix( var M : TMatrixGL);
14294: Procedure glAdjointMatrix1( var M : TAffineMatrix);
14295: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14296: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single);
14297: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14298: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL);
14299: Procedure glNormalizeMatrix( var M : TMatrixGL);
14300: Procedure glTransposeMatrix( var M : TAffineMatrix);
14301: Procedure glTransposeMatrix1( var M : TMatrixGL);
14302: Procedure glInvertMatrix( var M : TMatrixGL);
14303: Procedure glInvertMatrix1( var M : TAffineMatrix);

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14304: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL ) : TMatrixGL
14305: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations ) : Boolean
14306: Function glPlaneMake( const p1, p2, p3 : TAffineVector ) : THmgPlane;
14307: Function glPlaneMake1( const p1, p2, p3 : TVectorGL ) : THmgPlane;
14308: Function glPlaneMake2( const point, normal : TAffineVector ) : THmgPlane;
14309: Function glPlaneMake3( const point, normal : TVectorGL ) : THmgPlane;
14310: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane )
14311: Procedure glNormalizePlane( var plane : THmgPlane )
14312: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector ) : Single;
14313: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL ) : Single;
14314: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector ) : TAffineVector;
14315: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector );
14316: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector );
14317: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL ) : Boolean;
14318: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector ) : Boolean;
14319: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL ) : Single;
14320: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector ) : Single;
14321: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector
14322: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector ) : single
14323: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector ) : TAffineVector
14324: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector ) : Single
14325: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector )
14326: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single
14327: TEulerOrder', '( eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX )
14328: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion
14329: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion
14330: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single
14331: Procedure glNormalizeQuaternion( var Q : TQuaternion )
14332: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion
14333: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
14334: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion
14335: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL
14336: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix
14337: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion
14338: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion
14339: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion
14340: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion
14341: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14342: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14343: Function glLnXP1( X : Extended ) : Extended
14344: Function glLog10( X : Extended ) : Extended
14345: Function glLog2( X : Extended ) : Extended;
14346: Function glLog21( X : Single ) : Single;
14347: Function glLogN( Base, X : Extended ) : Extended
14348: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14349: Function glPower( const Base, Exponent : Single ) : Single;
14350: Function glPower1( Base : Single; Exponent : Integer ) : Single;
14351: Function glDegToRad( const Degrees : Extended ) : Extended;
14352: Function glDegToRad1( const Degrees : Single ) : Single;
14353: Function glRadToDeg( const Radians : Extended ) : Extended;
14354: Function glRadToDeg1( const Radians : Single ) : Single;
14355: Function glNormalizeAngle( angle : Single ) : Single
14356: Function glNormalizeDegAngle( angle : Single ) : Single
14357: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14358: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14359: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14360: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14361: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14362: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14363: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14364: Function glArcCos( const X : Extended ) : Extended;
14365: Function glArcCos1( const x : Single ) : Single;
14366: Function glArcSin( const X : Extended ) : Extended;
14367: Function glArcSin1( const X : Single ) : Single;
14368: Function glArcTan2l( const Y, X : Extended ) : Extended;
14369: Function glArcTan2l( const Y, X : Single ) : Single;
14370: Function glFastArcTan2( y, x : Single ) : Single
14371: Function glTan( const X : Extended ) : Extended;
14372: Function glTan1( const X : Single ) : Single;
14373: Function glCoTan( const X : Extended ) : Extended;
14374: Function glCoTan1( const X : Single ) : Single;
14375: Function glSinh( const x : Single ) : Single;
14376: Function glSinh1( const x : Double ) : Double;
14377: Function glCosh( const x : Single ) : Single;
14378: Function glCosh1( const x : Double ) : Double;
14379: Function glRSqrt( v : Single ) : Single
14380: Function glRLength( x, y : Single ) : Single
14381: Function glISqrt( i : Integer ) : Integer
14382: Function glILength( x, y : Integer ) : Integer;
14383: Function glILength1( x, y, z : Integer ) : Integer;
14384: Procedure glRegisterBasedExp
14385: Procedure glRandomPointOnSphere( var p : TAffineVector )
14386: Function glRoundInt( v : Single ) : Single;
14387: Function glRoundInt1( v : Extended ) : Extended;
14388: Function glTrunc( v : Single ) : Integer;
14389: Function glTrunc64( v : Extended ) : Int64;
14390: Function glInt( v : Single ) : Single;
14391: Function glInt1( v : Extended ) : Extended;

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14392: Function glFrac( v : Single ) : Single;
14393: Function glFrac1( v : Extended ) : Extended;
14394: Function glRound( v : Single ) : Integer;
14395: Function glRound64( v : Single ) : Int64;
14396: Function glRound641( v : Extended ) : Int64;
14397: Function glTrunc( X : Extended ) : Int64
14398: Function glRound( X : Extended ) : Int64
14399: Function glFrac( X : Extended ) : Extended
14400: Function glCeil( v : Single ) : Integer;
14401: Function glCeil64( v : Extended ) : Int64;
14402: Function glFloor( v : Single ) : Integer;
14403: Function glFloor64( v : Extended ) : Int64;
14404: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14405: Function glSign( x : Single ) : Integer
14406: Function glIsInRange( const x, a, b : Single ) : Boolean;
14407: Function glIsInRangel( const x, a, b : Double ) : Boolean;
14408: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14409: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14410: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14411: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14412: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14413: Function glMinFloat3( const v1, v2 : Single ) : Single;
14414: Function glMinFloat4( const v : array of Single ) : Single;
14415: Function glMinFloat5( const v1, v2 : Double ) : Double;
14416: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14417: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14418: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14419: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14420: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14421: //Function MaxFloat( values : PDoubleArray; nbItems : Integer ) : Double;
14422: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14423: Function glMaxFloat2( const v : array of Single ) : Single;
14424: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14425: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14426: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14427: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14428: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14429: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14430: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14431: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14432: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14433: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14434: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14435: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14436: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14437: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14438: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14439: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14440: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14441: Procedure glOffsetFloatArray( var values : array of Single; delta : Single );
14442: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14443: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14444: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14445: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14446: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14447: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single
14448: Function glMinAbsXYZComponent( v : TVectorGL ) : Single
14449: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14450: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14451: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14452: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14453: Procedure glSortArrayAscending( var a : array of Extended );
14454: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14455: Function glClampValue1( const aValue, aMin : Single ) : Single;
14456: Function glGeometryOptimizationMode : String
14457: Procedure glBeginFPUOnlySection
14458: Procedure glEndFPUOnlySection
14459: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL
14460: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector
14461: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector
14462: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector
14463: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector
14464: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector
14465: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector
14466: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean
14467: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word )
14468: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14469: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14470: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14471: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14472: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14473: Function glRoll1(const Matrix : TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14474: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single
14475: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const
sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14476: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14477: Function glSphereVisibleRadius( distance, radius : Single ) : Single
14478: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum

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14479: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci :
14480:   TRenderContextClippingInfo ) : Boolean;
14481: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci :
14482:   TRenderContextClippingInfo ) : Boolean;
14483: Function glIsVolumeClipped2(const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14484: Function glIsVolumeClipped3(const objPos:TAffineVector;const objRadius:Single;const
14485:   Frustum:TFrustum):Bool;
14486: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL
14487: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL
14488: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL
14489: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix
14490: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL
14491:   'cPI','Single').setExtended( 3.141592654 );
14492:   'cPIdiv180','Single').setExtended( 0.017453292 );
14493:   'c180divPI','Single').setExtended( 57.29577951 );
14494:   'c2PI','Single').setExtended( 6.283185307 );
14495:   'cPIdiv2','Single').setExtended( 1.570796326 );
14496:   'cPIdiv4','Single').setExtended( 0.785398163 );
14497:   'c3PIdiv4','Single').setExtended( 2.35619449 );
14498:   'cInv2PI','Single').setExtended( 1 / 6.283185307 );
14499:   'cInv360','Single').setExtended( 1 / 360 );
14500:   'c180','Single').setExtended( 180 );
14501:   'c360','Single').setExtended( 360 );
14502:   'cOneHalf','Single').setExtended( 0.5 );
14503:   'cLn10','Single').setExtended( 2.302585093 );
14504: { 'MinSingle','Extended').setExtended( 1.5e-45 );
14505:   'MaxSingle','Extended').setExtended( 3.4e+38 );
14506:   'MinDouble','Extended').setExtended( 5.0e-324 );
14507:   'MaxDouble','Extended').setExtended( 1.7e+308 );
14508:   'MinExtended','Extended').setExtended( 3.4e-4932 );
14509:   'MaxExtended','Extended').setExtended( 1.1e+4932 );
14510:   'MinComp','Extended').setExtended( - 9.223372036854775807e+18 );
14511:   'MaxComp','Extended').setExtended( 9.223372036854775807e+18 );}
14512: end;
14513: procedure SIRegister_GLVectorFileObjects(CL: TPPSPascalCompiler);
14514: begin
14515:   AddClassN(FindClass('TOBJECT'),'TMeshObjectList'
14516:     (FindClass('TOBJECT')),'TFaceGroups'
14517:     TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14518:     TMeshAutoCenterings', set of TMeshAutoCentering
14519:     TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14520:     SIRegister_TBaseMeshObject(CL);
14521:     TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14522:     SIRegister_TSkeletonFrame(CL);
14523:     (FindClass('TOBJECT')),'TSkeleton
14524:     (FindClass('TOBJECT')),'TSkeletonBone
14525:     SIRegister_TSkeletonBoneList(CL);
14526:     SIRegister_TSkeletonRootBoneList(CL);
14527:     SIRegister_TSkeletonBone(CL);
14528:     (FindClass('TOBJECT')),'TSkeletonColliderList
14529:     SIRegister_TSkeletonCollider(CL);
14530:     SIRegister_TSkeletonColliderList(CL);
14531:     (FindClass('TOBJECT')),'TGLBaseMesh
14532:     TBlendedLerpInfo', record frameIndex1 : Integer; frameIndex2 : '
14533:       + 'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14534:       + 'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14535:       + 'QuaternionList; end
14536:     SIRegister_TSkeleton(CL);
14537:     TMeshObjectRenderingOption', '( moroGroupByMaterial )
14538:     TMeshObjectRenderingOptions', set of TMeshObjectRenderingOption
14539:     SIRegister_TMeshObject(CL);
14540:     SIRegister_TMeshObjectList(CL);
14541: //TMeshObjectListClass', class of TMeshObjectList
14542:     (FindClass('TOBJECT')),'TMeshMorphTargetList
14543:     SIRegister_TMeshMorphTarget(CL);
14544:     SIRegister_TMeshMorphTargetList(CL);
14545:     SIRegister_TMorphableMeshObject(CL);
14546:     TVertexBoneWeight', record BoneID : Integer; Weight : Single; end
14547: //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not wo'rk
14548: //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14549: TVertexBoneWeightDynArray', array of TVertexBoneWeight
14550:     SIRegister_TSkeletonMeshObject(CL);
14551:     SIRegister_TFaceGroup(CL);
14552:     TFaceGroupMeshMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14553:       + 'atTriangles, fgmmTriangleFan, fgmmQuads )
14554:     SIRegister_TFGVertexIndexList(CL);
14555:     SIRegister_TFGVertexNormalTexIndexList(CL);
14556:     SIRegister_TFGIndexTexCoordList(CL);
14557:     SIRegister_TFaceGroups(CL);
14558:     TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14559:     SIRegister_TVectorFile(CL);
14560: //TVectorFileClass', class of TVectorFile
14561:     SIRegister_TGLGLSMVectorFile(CL);
14562:     SIRegister_TGLBaseMesh(CL);
14563:     SIRegister_TGLFreeForm(CL);
14564:     TGLActorOption', '( aoSkeletonNormalizeNormals )

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14565: TGLActorOptions', 'set of TGLActorOption
14566: 'cDefaultGLActorOptions','LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14567: (FindClass('TOBJECT'),'TGLActor
14568: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14569: SIRegister_TActorAnimation(CL);
14570: TActorAnimationName', 'String
14571: SIRegister_TActorAnimations(CL);
14572: SIRegister_TGLBaseAnimationController(CL);
14573: SIRegister_TGLAnimationController(CL);
14574: TActorFrameInterpolation', '( afpNone, afpLinear )
14575: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounce
14576: +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14577: SIRegister_TGLActor(CL);
14578: SIRegister_TVectorFileFormat(CL);
14579: SIRegister_TVectorFileFormatsList(CL);
14580: (FindClass('TOBJECT'), 'EInvalidVectorFile
14581: Function GetVectorFileFormats : TVectorFileFormatsList
14582: Function VectorFileFormatsFilter : String
14583: Function VectorFileFormatsSaveFilter : String
14584: Function VectorFileFormatExtensionByIndex( index : Integer ) : String
14585: Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass)
14586: Procedure UnregisterVectorFileClass( aClass : TVectorFileClass)
14587: end;
14588:
14589: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14590: begin
14591: 'Class_DColorPropPage', 'TGUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14592: 'Class_DFontPropPage', 'TGUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14593: 'Class_DPicturePropPage', 'TGUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14594: 'Class_DStringPropPage', 'TGUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14595: SIRegister_TOLEStream(CL);
14596: (FindClass('TOBJECT'), 'TConnectionPoints
14597: TConnectionKind', '( ckSingle, ckMulti )
14598: SIRegister_TConnectionPoint(CL);
14599: SIRegister_TConnectionPoints(CL);
14600: TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14601: (FindClass('TOBJECT'), 'TActiveXControlFactory
14602: SIRegister_TActiveXControl(CL);
14603: //TActiveXControlClass', 'class of TActiveXControl
14604: SIRegister_TActiveXControlFactory(CL);
14605: SIRegister_TActiveFormControl(CL);
14606: SIRegister_TActiveForm(CL);
14607: //TActiveFormClass', 'class of TActiveForm
14608: SIRegister_TActiveFormFactory(CL);
14609: (FindClass('TOBJECT'), 'TPropertyPageImpl
14610: SIRegister_TPropertyPage(CL);
14611: //TPropertyPageClass', 'class of TPropertyPage
14612: SIRegister_TPropertyPageImpl(CL);
14613: SIRegister_TActiveXPropertyPage(CL);
14614: SIRegister_TActiveXPropertyPageFactory(CL);
14615: SIRegister_TCustomAdapter(CL);
14616: SIRegister_TAdapterNotifier(CL);
14617: SIRegister_IFontAccess(CL);
14618: SIRegister_TFontAdapter(CL);
14619: SIRegister_IPictureAccess(CL);
14620: SIRegister_TPictureAdapter(CL);
14621: SIRegister_TOLEGraphic(CL);
14622: SIRegister_TStringsAdapter(CL);
14623: SIRegister_TReflectorWindow(CL);
14624: Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14625: Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14626: Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14627: Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14628: Procedure SetOlePicture( Picture : TPicture; OlePicture : IPictureDisp)
14629: Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14630: Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14631: Function ParkingWindow : Hwnd
14632: end;
14633:
14634: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14635: begin
14636: // TIP6Bytes = array [0..15] of Byte;
14637: { :binary form of IPv6 adress (for string conversion routines)}
14638: // TIP6Words = array [0..7] of Word;
14639: AddTypeS('TIP6Bytes', 'array [0..15] of Byte;');
14640: AddTypeS('TIP6Words', 'array [0..7] of Word;');
14641: AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14642: Function synaIsIP( const Value : string) : Boolean';
14643: Function synaIsIP6( const Value : string) : Boolean';
14644: Function synaIPToID( Host : string) : Ansistring';
14645: Function synaStrToIp6( value : string) : TIP6Bytes';
14646: Function synaIp6ToStr( value : TIP6Bytes) : string';
14647: Function synaStrToIp( value : string) : integer';
14648: Function synaIpToStr( value : integer) : string';
14649: Function synaReverseIP( Value : AnsiString) : AnsiString';
14650: Function synaReverseIP6( Value : AnsiString) : AnsiString';
14651: Function synaExpandIP6( Value : AnsiString) : AnsiString';
14652: Function xStrToIP( const Value : String) : TIPAdr';
14653: Function xIPToStr( const Adresse : TIPAdr) : String';

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14654: Function IPToCardinal( const Adresse : TIPAddr ) : Cardinal';
14655: Function CardinalToIP( const Value : Cardinal ) : TIPAddr';
14656: end;
14657:
14658: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14659: begin
14660:   AddTypeS('TSpecials', 'set of Char');
14661:   Const('SpecialChar','TSpecials').SetSet('=()[]<>;@/?\"_');
14662:   Const('URLFullSpecialChar','TSpecials').SetSet(';/?:@=&#+');
14663:   Const('TableBase64'ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyz0123456789+=');
14664:   Const('TableBase64mod'ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefgijklmnopqrstuvwxyz0123456789+,=);
14665:   Const('TableUU'(!"#$%&()'*,-/0123456789:<=>@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_');
14666:   Const('TableXX'(+0123456789ABCDEFGHIJKLMNPQRSTUVWXYZabcdefgijklmnopqrstuvwxyz');
14667:   Function DecodeTriple( const Value : AnsiString; Delimiter : Char ) : AnsiString';
14668:   Function DecodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14669:   Function DecodeURL( const Value : AnsiString ) : AnsiString';
14670:   Function EncodeTriple( const Value : AnsiString; Delimiter : Char; Specials : TSpecials ) : AnsiString';
14671:   Function EncodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14672:   Function EncodeSafeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14673:   Function EncodeURLElement( const Value : AnsiString ) : AnsiString';
14674:   Function EncodeURL( const Value : AnsiString ) : AnsiString';
14675:   Function Decode4to3( const Value, Table : AnsiString ) : AnsiString';
14676:   Function Decode4to3Ex( const Value, Table : AnsiString ) : AnsiString';
14677:   Function Encode3to4( const Value, Table : AnsiString ) : AnsiString';
14678:   Function synDecodeBase64( const Value : AnsiString ) : AnsiString';
14679:   Function synEncodeBase64( const Value : AnsiString ) : AnsiString';
14680:   Function DecodeBase64mod( const Value : AnsiString ) : AnsiString';
14681:   Function EncodeBase64mod( const Value : AnsiString ) : AnsiString';
14682:   Function DecodeUU( const Value : AnsiString ) : AnsiString';
14683:   Function EncodeUU( const Value : AnsiString ) : AnsiString';
14684:   Function DecodeXX( const Value : AnsiString ) : AnsiString';
14685:   Function DecodeYEnc( const Value : AnsiString ) : AnsiString';
14686:   Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer';
14687:   Function synCrc32( const Value : AnsiString ) : Integer';
14688:   Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word';
14689:   Function Crc16( const Value : AnsiString ) : Word';
14690:   Function synMD5( const Value : AnsiString ) : AnsiString';
14691:   Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString';
14692:   Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14693:   Function synSHA1( const Value : AnsiString ) : AnsiString';
14694:   Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString';
14695:   Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14696:   Function synMD4( const Value : AnsiString ) : AnsiString';
14697: end;
14698:
14699: procedure SIRegister_synachar(CL: TPSPascalCompiler);
14700: begin
14701:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14702:             +'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14703:             +'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14704:             +'4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14705:             +'8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14706:             +'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14707:             +'4, MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14708:             +'_, NEXTSTEP, ARMASCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14709:             +'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14710:             +'1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14711:             +'2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14712:             +'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14713:             +'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14714:             +'4, CP864, CP865, CP869, CP1125 ) );
14715:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14716:   Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14717:   Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharFrom:TMimeChar;CharTo:TMimeChar; const
      TransformTable : array of Word) : AnsiString';
14718:   Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
      TransformTable : array of Word; Translit : Boolean) : AnsiString';
14719:   Function GetCurCP : TMimeChar';
14720:   Function GetCuroEMCP : TMimeChar';
14721:   Function GetCPFromID( Value : AnsiString ) : TMimeChar';
14722:   Function GetIDFromCP( Value : TMimeChar ) : AnsiString';
14723:   Function NeedCharsetConversion( const Value : AnsiString ) : Boolean';
14724:   Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14725:   Function GetBOM( Value : TMimeChar ) : AnsiString';
14726:   Function StringToWide( const Value : AnsiString ) : WideString';
14727:   Function WideToString( const Value : WideString ) : AnsiString';
14728: end;
14729:
14730: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14731: begin
14732:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14733:   Procedure WakeOnLan( MAC, IP : string );
14734:   Function GetDNS : string';
14735:   Function GetIEProxy( protocol : string ) : TProxySetting';
14736:   Function GetLocalIPs : string';
14737: end;
14738:
14739:
14740: procedure SIRegister_synaser(CL: TPSPascalCompiler);

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14741: begin
14742:   AddConstantN('synCR', 'Char #$0d);
14743:   Const('synLF', 'Char #$0a);
14744:   Const('cSerialChunk', 'LongInt'( 8192);
14745:   Const('LockfileDirectory', 'String '/var/lock');
14746:   Const('PortIsClosed', 'LongInt'(- 1);
14747:   Const('ErrAlreadyOwned', 'LongInt'( 9991);
14748:   Const('ErrAlreadyInUse', 'LongInt'( 9992);
14749:   Const('ErrWrongParameter', 'LongInt'( 9993);
14750:   Const('ErrPortNotOpen', 'LongInt'( 9994);
14751:   Const('ErrNoDeviceAnswer', 'LongInt'( 9995);
14752:   Const('ErrMaxBuffer', 'LongInt'( 9996);
14753:   Const('ErrTimeout', 'LongInt'( 9997);
14754:   Const('ErrNotRead', 'LongInt'( 9998);
14755:   Const('ErrFrame', 'LongInt'( 9999);
14756:   Const('ErrOverrun', 'LongInt'( 10000);
14757:   Const('ErrRxOver', 'LongInt'( 10001);
14758:   Const('ErrRxParity', 'LongInt'( 10002);
14759:   Const('ErrTxFull', 'LongInt'( 10003);
14760:   Const('dcb_Binary', 'LongWord')( $00000001);
14761:   Const('dcb_ParityCheck', 'LongWord')( $00000002);
14762:   Const('dcb_OutxCtsFlow', 'LongWord')( $00000004);
14763:   Const('dcb_OutxDsrFlow', 'LongWord')( $00000008);
14764:   Const('dcb_DtrControlMask', 'LongWord')( $00000030);
14765:   Const('dcb_DtrControlDisable', 'LongWord')( $00000000);
14766:   Const('dcb_DtrControlEnable', 'LongWord')( $00000010);
14767:   Const('dcb_DtrControlHandshake', 'LongWord')( $00000020);
14768:   Const('dcb_DsrSensitivity', 'LongWord')( $00000040);
14769:   Const('dcb_TXContinueOnXoff', 'LongWord')( $00000080);
14770:   Const('dcb_OutX', 'LongWord')( $00000100);
14771:   Const('dcb_InX', 'LongWord')( $00000200);
14772:   Const('dcb_ErrorChar', 'LongWord')( $00000400);
14773:   Const('dcb_NullStrip', 'LongWord')( $00000800);
14774:   Const('dcb_RtsControlMask', 'LongWord')( $00003000);
14775:   Const('dcb_RtsControlDisable', 'LongWord')( $00000000);
14776:   Const('dcb_RtsControlEnable', 'LongWord')( $00001000);
14777:   Const('dcb_RtsControlHandshake', 'LongWord')( $00002000);
14778:   Const('dcb_RtsControlToggle', 'LongWord')( $00003000);
14779:   Const('dcb_AbortOnError', 'LongWord')( $00004000);
14780:   Const('dcb_Reserves', 'LongWord')( $FFFF8000);
14781:   Const('synSBL', 'LongInt'( 0);
14782:   Const('SBlandHalf', 'LongInt'( 1);
14783:   Const('synSB2', 'LongInt'( 2);
14784:   Const('synINVALID_HANDLE_VALUE', 'LongInt'( THandle (- 1));
14785:   Const('CS7fix', 'LongWord')( $0000020);
14786:   AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long'
14787:     + 'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14788:     + 'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14789:     + 'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14790:   //AddTypeS('PDCB', '^TDCB // will not work');
14791:   //Const('MaxRates', 'LongInt'( 18);
14792:   //Const('MaxRates', 'LongInt'( 30);
14793:   //Const('MaxRates', 'LongInt'( 19);
14794:   Const('O_SYNC', 'LongWord')( $0080);
14795:   Const('synOK', 'LongInt'( 0);
14796:   Const('synErr', 'LongInt'( integer (- 1));
14797:   AddTypes('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
14798:             HR_WriteCount, HR_Wait )');
14799:   Type('THookSerialStatus', Procedure(Sender: TObject; Reason: THookSerialReason; const Value:string));
14800:   SIRegister_ESynaSerError(CL);
14801:   SIRegister_TBlockSerial(CL);
14802:   Function GetSerialPortNames : string);
14803: end;
14804: procedure SIRegister_synaicnv(CL: TPSPascalCompiler);
14805: begin
14806:   Const('DLLIconvName', 'String 'libiconv.so');
14807:   Const('DLLIconvName', 'String 'iconv.dll');
14808:   AddTypeS('size_t', 'Cardinal');
14809:   AddTypeS('iconv_t', 'Integer');
14810:   //AddTypeS('iconv_t', 'Pointer');
14811:   AddTypeS('argptr', 'iconv_t');
14812:   Function SynalconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14813:   Function SynalconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14814:   Function SynalconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14815:   Function Synalconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14816:   Function SynalconvClose( var cd : iconv_t) : integer';
14817:   Function SynalconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14818:   Function IsIconvloaded : Boolean';
14819:   Function InitIconvInterface : Boolean';
14820:   Function DestroyIconvInterface : Boolean';
14821:   Const('ICONV_TRIVIALP', 'LongInt'( 0);
14822:   Const('ICONV_GET_TRANSLITERATE', 'LongInt'( 1);
14823:   Const('ICONV_SET_TRANSLITERATE', 'LongInt'( 2);
14824:   Const('ICONV_GET_DISCARD_ILSEQ', 'LongInt'( 3);
14825:   Const('ICONV_SET_DISCARD_ILSEQ', 'LongInt'( 4);
14826: end;
14827:
14828: procedure SIRegister_pingsend(CL: TPSPascalCompiler);

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14829: begin
14830:   Const 'ICMP_ECHO','LongInt'( 8);
14831:   Const ('ICMP_ECHOREPLY','LongInt'( 0);
14832:   Const ('ICMP_UNREACH','LongInt'( 3);
14833:   Const ('ICMP_TIME_EXCEEDED','LongInt'( 11);
14834:   Const ('ICMP6_ECHO','LongInt'( 128);
14835:   Const ('ICMP6_ECHOREPLY','LongInt'( 129);
14836:   Const ('ICMP6_UNREACH','LongInt'( 1);
14837:   Const ('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14838:   AddTypes('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOt'
14839:     +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14840:   SIRegister_TPINGSend(CL);
14841:   Function PingHost( const Host : string) : Integer';
14842:   Function TraceRouteHost( const Host : string) : string';
14843: end;
14844:
14845: procedure SIRegister_asnutil(CL: TPPascalCompiler);
14846: begin
14847:   AddConstantN('synASN1_BOOL','LongWord')( $01);
14848:   Const ('synASN1_INT','LongWord')( $02);
14849:   Const ('synASN1_OCTSTR','LongWord')( $04);
14850:   Const ('synASN1_NULL','LongWord')( $05);
14851:   Const ('synASN1_OBJID','LongWord')( $06);
14852:   Const ('synASN1_ENUM','LongWord')( $0a);
14853:   Const ('synASN1_SEQ','LongWord')( $30);
14854:   Const ('synASN1_SETOF','LongWord')( $31);
14855:   Const ('synASN1_IPADDR','LongWord')( $40);
14856:   Const ('synASN1_COUNTER','LongWord')( $41);
14857:   Const ('synASN1_GAUGE','LongWord')( $42);
14858:   Const ('synASN1_TIMETICKS','LongWord')( $43);
14859:   Const ('synASN1_OPAQUE','LongWord')( $44);
14860:   Function synASNEncOIDItem( Value : Integer) : AnsiString';
14861:   Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString) : Integer';
14862:   Function synASNEncLen( Len : Integer) : AnsiString';
14863:   Function synASNDecLen( var Start : Integer; const Buffer : AnsiString) : Integer';
14864:   Function synASNEncInt( Value : Integer) : AnsiString';
14865:   Function synASNEncUIInt( Value : Integer) : AnsiString';
14866:   Function synASNOBJECT( const Data : AnsiString; ASNType : Integer) : AnsiString';
14867:   Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14868:   Function synMibToId( Mib : String) : AnsiString';
14869:   Function synidToMib( const Id : AnsiString) : String';
14870:   Function synIntMibToStr( const Value : AnsiString) : AnsiString';
14871:   Function ASNdump( const Value : AnsiString) : AnsiString';
14872:   Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings): Boolean';
14873:   Function LDAPResultDump( const Value : TLDAPResultList) : AnsiString';
14874: end;
14875:
14876: procedure SIRegister_ldapsend(CL: TPPascalCompiler);
14877: begin
14878:   Const ('cLDAPProtocol','String '389');
14879:   Const ('LDAP ASN1_BIND_REQUEST','LongWord')( $60);
14880:   Const ('LDAP ASN1_BIND_RESPONSE','LongWord')( $61);
14881:   Const ('LDAP ASN1_UNBIND_REQUEST','LongWord')( $42);
14882:   Const ('LDAP ASN1_SEARCH_REQUEST','LongWord')( $63);
14883:   Const ('LDAP ASN1_SEARCH_ENTRY','LongWord')( $64);
14884:   Const ('LDAP ASN1_SEARCH_DONE','LongWord')( $65);
14885:   Const ('LDAP ASN1_SEARCH_REFERENCE','LongWord')( $73);
14886:   Const ('LDAP ASN1 MODIFY_REQUEST','LongWord')( $66);
14887:   Const ('LDAP ASN1 MODIFY_RESPONSE','LongWord')( $67);
14888:   Const ('LDAP ASN1_ADD_REQUEST','LongWord')( $68);
14889:   Const ('LDAP ASN1_ADD_RESPONSE','LongWord')( $69);
14890:   Const ('LDAP ASN1_DEL_REQUEST','LongWord')( $4A);
14891:   Const ('LDAP ASN1_DEL_RESPONSE','LongWord')( $6B);
14892:   Const ('LDAP ASN1 MODIFYDN_REQUEST','LongWord')( $6C);
14893:   Const ('LDAP ASN1 MODIFYDN_RESPONSE','LongWord')( $6D);
14894:   Const ('LDAP ASN1_COMPARE_REQUEST','LongWord')( $6E);
14895:   Const ('LDAP ASN1_COMPARE_RESPONSE','LongWord')( $6F);
14896:   Const ('LDAP ASN1_ABANDON_REQUEST','LongWord')( $70);
14897:   Const ('LDAP ASN1_EXT_REQUEST','LongWord')( $77);
14898:   Const ('LDAP ASN1_EXT_RESPONSE','LongWord')( $78);
14899:   SIRegister_TLDAPAttribute(CL);
14900:   SIRegister_TLDAPAttributeList(CL);
14901:   SIRegister_TLDAPResult(CL);
14902:   SIRegister_TLDAPResultList(CL);
14903:   AddTypeS('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14904:   AddTypeS('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14905:   AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14906:   SIRegister_TLDAPSnd(CL);
14907:   Function LDAPResultDump( const Value : TLDAPResultList) : AnsiString';
14908: end;
14909:
14910:
14911: procedure SIRegister_slogsend(CL: TPPascalCompiler);
14912: begin
14913:   Const ('cSysLogProtocol','String '514');
14914:   Const ('FCL_Kernel','LongInt'( 0);
14915:   Const ('FCL_UserLevel','LongInt'( 1);
14916:   Const ('FCL_MailSystem','LongInt'( 2);
14917:   Const ('FCL_System','LongInt'( 3);

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14918: Const('FCL_Security','LongInt'( 4);
14919: Const('FCL_Syslogd','LongInt'( 5);
14920: Const('FCL_Printer','LongInt'( 6);
14921: Const('FCL_News','LongInt'( 7);
14922: Const('FCL_UUCP','LongInt'( 8);
14923: Const('FCL_Clock','LongInt'( 9);
14924: Const('FCL_Authorization','LongInt'( 10);
14925: Const('FCL_FTP','LongInt'( 11);
14926: Const('FCL_NTP','LongInt'( 12);
14927: Const('FCL_LogAudit','LongInt'( 13);
14928: Const('FCL_LogAlert','LongInt'( 14);
14929: Const('FCL_Time','LongInt'( 15);
14930: Const('FCL_Local0','LongInt'( 16);
14931: Const('FCL_Local1','LongInt'( 17);
14932: Const('FCL_Local2','LongInt'( 18);
14933: Const('FCL_Local3','LongInt'( 19);
14934: Const('FCL_Local4','LongInt'( 20);
14935: Const('FCL_Local5','LongInt'( 21);
14936: Const('FCL_Local6','LongInt'( 22);
14937: Const('FCL_Local7','LongInt'( 23);
14938: Type(TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning, Notice, Info, Debug);
14939: SIRegister_TSyslogMessage(CL);
14940: SIRegister_TSyslogSend(CL);
14941: Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const Content:string):Boolean;
14942: end;
14943:
14944:
14945: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
14946: begin
14947:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
14948:   SIRegister_TMessHeader(CL);
14949:   //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
14950:   SIRegister_TMimeMess(CL);
14951: end;
14952:
14953: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
14954: begin
14955:   (FindClass('TOBJECT'),'TMimePart');
14956:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
14957:   AddTypeS('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
14958:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
14959:   SIRegister_TMimePart(CL);
14960:   Const('MaxMimeType','LongInt'( 25);
14961:   Function GenerateBoundary : string');
14962: end;
14963:
14964: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
14965: begin
14966:   Function InlineDecode( const Value : string; CP : TMimeChar) : string';
14967:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string';
14968:   Function NeedInline( const Value : AnsiString) : boolean';
14969:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
14970:   Function InlineCode( const Value : string) : string';
14971:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
14972:   Function InlineEmail( const Value : string) : string');
14973: end;
14974:
14975: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
14976: begin
14977:   Const('cFtpProtocol','String '21');
14978:   Const('cFtpDataProtocol','String '20');
14979:   Const('FTP_OK','LongInt'( 255);
14980:   Const('FTP_ERR','LongInt'( 254);
14981:   AddTypeS('TFTPSStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
14982:   SIRegister_TFTPLListRec(CL);
14983:   SIRegister_TFTPLList(CL);
14984:   SIRegister_TFTPSend(CL);
14985:   Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14986:   Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14987:   Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string) : Boolean';
14988: end;
14989:
14990: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
14991: begin
14992:   Const('cHttpProtocol','String '80');
14993:   AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
14994:   SIRegister_THTTPSend(CL);
14995:   Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
14996:   Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
14997:   Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
14998:   Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
14999:   Function HttpPostFile(const URL,FieldName,FileName:string;const Data:TStream;const ResultData:TStrings):Bool;
15000: end;
15001:
15002: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
15003: begin

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15004: Const('cSmtpProtocol','String '25');
15005: SIRegister_TSMTSPSend(CL);
15006: Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
    Passw:string):Bool;
15007: Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
15008: Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
    Username, Password : string):Boolean';
15009: end;
15010:
15011: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
15012: begin
15013: Const('cSnmpProtocol','String '161');
15014: Const('cSnmpTrapProtocol','String '162');
15015: Const('SNMP_V1','LongInt'( 0);
15016: Const('SNMP_V2C','LongInt'( 1);
15017: Const('SNMP_V3','LongInt'( 3);
15018: Const('PDUGetRequest','LongWord')( $A0);
15019: Const('PDUGetNextRequest','LongWord')( $A1);
15020: Const('PDUGetResponse','LongWord')( $A2);
15021: Const('PDUSetRequest','LongWord')( $A3);
15022: Const('PDUTrap','LongWord')( $A4);
15023: Const('PDUGetBulkRequest','LongWord')( $A5);
15024: Const('PDUInformRequest','LongWord')( $A6);
15025: Const('PDUTrapV2','LongWord')( $A7);
15026: Const('PDUReport','LongWord')( $A8);
15027: Const('ENoError',LongInt 0;
15028: Const('ETooBig','LongInt')( 1);
15029: Const('ENoSuchName','LongInt'( 2);
15030: Const('EBadValue','LongInt'( 3);
15031: Const('EReadOnly','LongInt'( 4);
15032: Const('EGenErr','LongInt'( 5);
15033: Const('ENoAccess','LongInt'( 6);
15034: Const('EWrongType','LongInt'( 7);
15035: Const('EWrongLength','LongInt'( 8);
15036: Const('EWrongEncoding','LongInt'( 9);
15037: Const('EWrongValue','LongInt'( 10);
15038: Const('ENOCreation','LongInt'( 11);
15039: Const('EInconsistentValue','LongInt'( 12);
15040: Const('EResourceUnavailable','LongInt'( 13);
15041: Const('ECommitFailed','LongInt'( 14);
15042: Const('EUndoFailed','LongInt'( 15);
15043: Const('EAuthorizationError','LongInt'( 16);
15044: Const('ENotWritable','LongInt'( 17);
15045: Const('EInconsistentName','LongInt'( 18);
15046: AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15047: AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15048: AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15049: SIRegister_TSNNPMib(CL);
15050: AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
    +'EngineTime : integer; EngineStamp : Cardinal; end');
15051: SIRegister_TSNNPRec(CL);
15052: SIRegister_TSNNPSend(CL);
15053: SIRegister_TSNNPSend(CL);
15054: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString) : Boolean';
15055: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer) : Boolean';
15056: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15057: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings): Boolean;
15058: Function SNMPGetTableElement(const BaseOID,RowID,ColID,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15059: Function SendTrap(const Dest,Source, Enterprise, Community : AnsiString; Generic, Specific, Seconds : Integer;
    const MIBName, MIBValue : AnsiString; MIBtype : Integer) : Integer';
15060: Function RecvTrap(var Dest,Source,Enterprise,Community:AnsiString; var Generic, Specific, Seconds : Integer;
    const MIBName, MIBValue : TStringList) : Integer';
15061: end;
15062:
15063: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15064: begin
15065: Function GetDomainName2: AnsiString';
15066: Function GetDomainController( Domain : AnsiString) : AnsiString';
15067: Function GetDomainUsers( Controller : AnsiString) : AnsiString';
15068: Function GetDomainGroups( Controller : AnsiString) : AnsiString';
15069: Function GetDateTime( Controller : AnsiString) : TDateTime';
15070: Function GetFullName2( Controller, UserID : AnsiString) : AnsiString';
15071: end;
15072:
15073: procedure SIRegister_wwSystem(CL: TPSPascalCompiler);
15074: begin
15075: AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15076: TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM)';
15077: Function wwStrToDate( const S : string) : boolean';
15078: Function wwStrToTime( const S : string) : boolean';
15079: Function wwStrToDate( const S : string) : boolean';
15080: Function wwStrToTimeVal( const S : string) : TDateTime';
15081: Function wwStrToDateVal( const S : string) : TDateTime';
15082: Function wwStrToDateVal( const S : string) : TDateTime';
15083: Function wwStrToInt( const S : string) : boolean';
15084: Function wwStrToFloat( const S : string) : boolean';
15085: Function wwGetDateOrder( const DateFormat : string) : TwwDateOrder';
15086: Function wwNextDay( Year, Month, Day : Word) : integer';
15087: Function wwPriorDay( Year, Month, Day : Word) : integer';
15088: Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime) : Boolean';

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15089: Function wwDoEncodeTime( Hour, Min, Sec : Word; var Time : TDateTime) : Boolean';
15090: Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15091: Function wwGetTimeCursorPosition( SelStart : integer; Text : string ) : TwwDateTimeSelection';
15092: Function wwScanDate( const S : string; var Date : TDateTime ) : Boolean';
15093: Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer ) : Boolean';
15094: Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool;
15095: Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15096: end;
15097:
15098: unit uPSI_Themes;
15099: Function ThemeServices : TThemeServices';
15100: Function ThemeControl( AControl : TControl ) : Boolean';
15101: Function UnthemedDesigner( AControl : TControl ) : Boolean';
15102: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15103: begin
15104:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String';
15105: end;
15106: Unit uPSC_menus;
15107: Function StripHotkey( const Text : string ) : string';
15108: Function GetHotkey( const Text : string ) : string';
15109: Function AnsiSameCaption( const Text1, Text2 : string ) : Boolean';
15110: Function IsAltGRPressed : boolean';
15111:
15112: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15113: begin
15114:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15115:   SIRegister_TIdIMAP4Server(CL);
15116: end;
15117:
15118: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15119: begin
15120:   'HASH_SIZE','LongInt'( 256 );
15121:   CL.FindClass('TOBJECT','EVariantSymbolTable');
15122:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15123:   //CL.AddTypeS('PSymbol', 'TSymbol // will not work');
15124:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15125:   +' : Integer; Value : Variant; end');
15126:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15127:   SIRegister_TVariantSymbolTable(CL);
15128: end;
15129:
15130: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15131: begin
15132:   SIRegister_TThreadLocalVariables(CL);
15133:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar';
15134:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15135:   Function ThreadLocals : TThreadLocalVariables';
15136:   Procedure WriteDebug( sz : String );
15137:   CL.AddConstantN('UDF_SUCCESS','LongInt'( 0 );
15138:   'UDF_FAILURE','LongInt'( 1 );
15139:   'cSignificantlyLarger','LongInt'( 1024 * 4 );
15140:   CL.AddTypeS('mTByteArray', 'array of byte;');
15141:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15142:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15143:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15144:   function IsNetworkConnected: Boolean;
15145:   function IsInternetConnected: Boolean;
15146:   function IsCOMConnected: Boolean;
15147:   function IsNetworkOn: Boolean;
15148:   function IsInternetOn: Boolean;
15149:   function IsCOMON: Boolean;
15150:   Function SetTimer(hWnd : HWND; nIDEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15151:   Function KillTimer( hWnd : HWND; uIDEvent : UINT ) : BOOL';
15152:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15153:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15154:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15155:   Function GetMenu( hWnd : HWND ) : HMENU';
15156:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15157: end;
15158:
15159: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15160: begin
15161:   SIRegister_IDataBlock(CL);
15162:   SIRegister_ISendDataBlock(CL);
15163:   SIRegister_ITransport(CL);
15164:   SIRegister_TDataBlock(CL);
15165:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15166:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15167:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15168:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15169:   SIRegister_TCustomDataBlockInterpreter(CL);
15170:   SIRegister_TSendDataBlock(CL);
15171:   'CallSig','LongWord')( $D800 );
15172:   'ResultSig','LongWord')( $D400 );
15173:   'asMask','LongWord')( $00FF );
15174:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15175:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15176:   Procedure CheckSignature( Sig : Integer );
15177: end;

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15178:
15179: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15180: begin
15181:   //CL.AddTypeS('HINTERNET', '__Pointer');
15182:   CL.AddTypeS('HINTERNET', 'THANDLE');
15183:   CL.AddTypeS('HINTERNET', 'Integer');
15184:   CL.AddTypeS('HINTERNET2', '__Pointer');
15185:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15186:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15187:   CL.AddTypeS('INTERNET_PORT', 'Word');
15188:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15189:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15190:   Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD):BOOL;
15191:   'INTERNET_RFC1123_FORMAT','LongInt'( 0);
15192:   'INTERNET_RFC1123_BUFSIZE','LongInt'( 30);
15193:   Function InternetCrackUrl(lpszUrl:PChar; dwUrlLength,dwFlags:DWORD; var
lpUrlComponents:TURLComponents):BOOL;
15194:   Function InternetCreateUrl(var lpUrlComponts:TURLCompons;dwFlags:DWORD;lpszUrl:PChar;var
dwUrlLength:DWORD):BOOL;
15195:   Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15196:   Function
InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15197:   Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
;dwContext:DWORD):HINTERNET;
15198:   Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
lpszProxBypass:PChar;dwFlags:DWORD):HINTERNET;
15200:   Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
dwContext:DWORD):BOOL;
15201:   Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15202:   Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15203:   Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15204:   Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15205:   Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15206:   Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15207:   Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15208:   Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15209:   Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
lpdwBufferLength : Function InternetCloseHandle( hInet : HINTERNET ) : BOOL');
15210:   Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar
;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD; dwContext:DWORD):HINTERNET;
15212:   Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
dwContext:DWORD):BOOL;
15213:   Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET';
15214:   Function WFTPGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL';
15215:   Function
WFTPPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15216:   Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL';
15217:   Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15218:   Function
FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15219:   Function Ftp.CreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15220:   Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15221:   Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar ) : BOOL';
15222:   Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15223:   Function
FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommd:PChar;dwContxt:DWORD):BOOL;
15224:   Function IS_GOPHER_FILE( GopherType : DWORD ) : BOOL';
15225:   Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL';
15226:   Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL';
15227:   Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL';
15228:   Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL';
15229:   Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL';
15230:   Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL';
15231:   Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL';
15232:   Function IS_GOPHER_ask( GopherType : DWORD ) : BOOL';
15233:   Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL';
15234:   Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL';
15235:   Function
GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15236:   Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15237:   Function
GopherOpenFile(hConct:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15238:   Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15239:   Function
HttpAddRequestHeaders(hReq:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15240:   Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar;
dwHeadersLength:DWORD;lpOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15241:   Function InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15242:   Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD';
15243:   Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15244:   Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15245:   Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL ) : DWORD';

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15246: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject) : Int64');
15247: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject) : Bool');
15248: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var lpFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15249: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15250: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15251: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15252: Function InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15253: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD) : BOOL');
15254: end;
15255:
15256: procedure SIRегистer_Wwstr(CL: TPSPascalCompiler);
15257: begin
15258:   AddTypeS('str CharSet', 'set of char');
15259:   TwGetWordOption,'(wwgSkipLeadingBlanks, wwgQuotesAsWords, wwgStripQuotes , wwgSpacesInWords);
15260:   AddTypes('TwGetWordOptions', 'set of TwGetWordOption');
15261:   Procedure strBreakApart( s : string; delimiter : string; parts : TStrings)');
15262:   Function strGetToken( s : string; delimiter : string; var APos : integer) : string';
15263:   Procedure strStripPreceding( var s : string; delimiter : str CharSet)');
15264:   Procedure strStripTrailing( var s : string; delimiter : str CharSet)');
15265:   Procedure strStripWhiteSpace( var s : string)');
15266:   Function strRemoveChar( str : string; removeChar : char) : string');
15267:   Function wwstrReplaceChar( str : string; removeChar, replaceChar : char) : string');
15268:   Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string) : string');
15269:   Function wwEqualStr( s1, s2 : string) : boolean');
15270:   Function strCount( s : string; delimiter : char) : integer');
15271:   Function strWhiteSpace : str CharSet');
15272:   Function wwExtractFileNameOnly( const FileName : string) : string');
15273:   Function wwGetWord(s:string; var APos:integer; Options:TwwGetWordOptions; DelimSet:str CharSet):string;
15274:   Function strTrailing( s : string; delimiter : char) : string');
15275:   Function strPreceding( s : string; delimiter : char) : string');
15276:   Function wwstrReplace( s, Find, Replace : string) : string');
15277: end;
15278:
15279: procedure SIRегистer_DataBkr(CL: TPPSPascalCompiler);
15280: begin
15281:   SIRегистer_TRemoteDataModule(CL);
15282:   SIRегистer_TCREmoteDataModule(CL);
15283:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)');
15284:   Procedure UnregisterPooled( const ClassID : string)');
15285:   Procedure EnableSocketTransport( const ClassID : string)');
15286:   Procedure DisableSocketTransport( const ClassID : string)');
15287:   Procedure EnableWebTransport( const ClassID : string)');
15288:   Procedure DisableWebTransport( const ClassID : string)');
15289: end;
15290:
15291: procedure SIRегистer_Mathbox(CL: TPPSPascalCompiler);
15292: begin
15293:   Function mxArcCos( x : Real) : Real');
15294:   Function mxArcSin( x : Real) : Real');
15295:   Function Comp2Str( N : Comp) : String');
15296:   Function Int2StrPad0( N : LongInt; Len : Integer) : String');
15297:   Function Int2Str( N : LongInt) : String');
15298:   Function mxIsEqual( R1, R2 : Double) : Boolean');
15299:   Function LogXY( x, y : Real) : Real');
15300:   Function Pennies2Dollars( C : Comp) : String');
15301:   Function mxPower( X : Integer; Y : Integer) : Real');
15302:   Function Real2Str( N : Real; Width, Places : integer) : String');
15303:   Function mxStr2Comp( MyString : string) : Comp');
15304:   Function mxStr2Pennies( S : String) : Comp');
15305:   Function Str2Real( MyString : string) : Real');
15306:   Function XToThey( x, y : Real) : Real');
15307: end;
15308:
15309: //*****Cindy Functions*****
15310: procedure SIRегистer_cyIndy(CL: TPSPascalCompiler);
15311: begin
15312:   CL.AddTypeS('TContentTypeMessage', '(
cmPlainText, cmPlainText_Attach, cmHtml'
15313:     +'__Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach, '
15314:     +'cmAlterText_Html_RelatedAttach, cmAlterText_Html_Attach_RelatedAttach, cmReadNotification )');
15315:   MessagePlainText,'String 'text/plain');
15316:   CL.AddConstantN('MessagePlainText_Attach','String 'multipart/mixed');
15317:   MessageAlterText_Html,'String 'multipart/alternative');
15318:   MessageHtml_Attach,'String 'multipart/mixed');
15319:   MessageHtml_RelatedAttach,'String 'multipart/related; type="text/html"');
15320:   MessageAlterText_Html_Attach,'String 'multipart/mixed');
15321:   MessageAlterText_Html_RelatedAttach,'String')('multipart/related; type="multipart/alternative"');
15322:   MessageAlterText_Html_Attach_RelatedAttach,'String 'multipart/mixed');
15323:   MessageReadNotification,'String')('multipart/report; report-type="disposition-notification"');
15324:   Function ForceDecodeHeader( aHeader : String) : String');
15325:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding) : string');
15326:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding) : String');
15327:   Function Base64_DecodeToBytes( Value : String) : TBytes;');
15328:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15329:   Function Get_MD5( const aFileName : string) : string');
15330:   Function Get_MD5FromString( const aString : string) : string');
15331: end;

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15332:
15333: procedure SIRегистр_cySysUtils(CL: TPSpascalCompiler);
15334: begin
15335:   Function IsFolder( SRec : TSearchrec ) : Boolean';
15336:   Function isFolderReadOnly( Directory : String ) : Boolean';
15337:   Function DirectoryIsEmpty( Directory : String ) : Boolean';
15338:   Function DirectoryWithSubDir( Directory : String ) : Boolean';
15339:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings );
15340:   Function DiskFreeBytes( Drv : Char ) : Int64';
15341:   Function DiskBytes( Drv : Char ) : Int64';
15342:   Function GetFileBytes( Filename : String ) : Int64';
15343:   Function GetFileBytes( Directory, Filter : String ) : Int64';
15344:   SE_CREATE_TOKEN_NAME', 'String 'SeCreateTokenPrivilege';
15345:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege';
15346:   SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege';
15347:   SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege';
15348:   SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege';
15349:   SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege';
15350:   SE_TCB_NAME', 'String 'SeTcbPrivilege';
15351:   SE_SECURITY_NAME', 'String 'SeSecurityPrivilege';
15352:   SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege';
15353:   SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege';
15354:   SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege';
15355:   SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege';
15356:   SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege';
15357:   SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege';
15358:   SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege';
15359:   SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege';
15360:   SE_BACKUP_NAME', 'String 'SeBackupPrivilege';
15361:   SE_RESTORE_NAME', 'String 'SeRestorePrivilege';
15362:   SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege';
15363:   SE_DEBUG_NAME', 'String 'SeDebugPrivilege';
15364:   SE_AUDIT_NAME', 'String 'SeAuditPrivilege';
15365:   SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege';
15366:   SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege';
15367:   SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege';
15368:   SE_UNDOCK_NAME', 'String 'SeUndockPrivilege';
15369:   SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege';
15370:   SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege';
15371:   SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege';
15372: end;
15373:
15374:
15375: procedure SIRегистр_cyWinUtils(CL: TPSpascalCompiler);
15376: begin
15377:   Type(TWindowsVersion', '( wvUnknown, wvWin31, wvWin95, wvWin98, wvWin'
15378:         + 'Me, wvWinNt3, wvWinNt4, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Or_Upper )');
15379:   Function ShellGetExtensionName( FileName : String ) : String';
15380:   Function ShellGetIconIndex( FileName : String ) : Integer';
15381:   Function ShellGetIconHandle( FileName : String ) : HIcon';
15382:   Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string );
15383:   Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string );
15384:   Procedure ShellRenameDir( DirFrom, DirTo : string );
15385:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15386:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15387:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String );
15388:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string );
15389:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean';
15390:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer );
15391:   Function RemoveDuplicatedPathDelimiter( Str : String ) : String';
15392:   Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime';
15393:   Function GetModificationDate( Filename : String ) : TDateTime';
15394:   Function GetCreationDate( Filename : String ) : TDateTime';
15395:   Function GetLastAccessDate( Filename : String ) : TDateTime';
15396:   Function FileDelete( Filename : String ) : Boolean';
15397:   Function FileIsOpen( Filename : String ) : boolean';
15398:   Procedure FilesDelete( FromDirectory : String; Filter : ShortString );
15399:   Function DirectoryDelete( Directory : String ) : Boolean';
15400:   Function GetPrinters( PrintersList : TStrings ) : Integer';
15401:   Procedure SetDefaultPrinter( PrinterName : String );
15402:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer );
15403:   Function WinToDosPath( WinPathName : String ) : String';
15404:   Function DosToWinPath( DosPathName : String ) : String';
15405:   Function cyGetWindowsVersion : TWindowsVersion';
15406:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean';
15407:   Procedure WindowsShutDown( Restart : boolean );
15408:   Procedure CreateShortCut( FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
FileIcon:string;NumIcone:integer );
15409:   Procedure GetWindowsFonts( FontsList : TStrings );
15410:   Function GetAvailableFilename( DesiredFileName : String ) : String';
15411: end;
15412:
15413: procedure SIRегистр_cyStrUtils(CL: TPSpascalCompiler);
15414: begin
15415:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15416:   Type(TStrLocateOptions', 'set of TStringLocateOption');
15417:   Type(TStringRead', '( srFromLeft, srFromRight )');
15418:   Type(TStringReads', 'set of TStringRead');

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15419: Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15420: Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15421: Type(TWordsOptions', 'set of TWordsOption');
15422: Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15423: Type(TCarTypes', 'set of TCarType');
15424: //CL.AddTypes('TUnicodeCategories', 'set of TUnicodeCategory');
15425: CarTypeAlphabetic' , 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15426: Function Char_GetType( aChar : Char) : TCarType';
15427: Function SubString_Count( Str : String; Separator : Char) : Integer';
15428: Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word) : Integer';
15429: Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word) : String';
15430: Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word) : Integer';
15431: Procedure SubString_Add( var Str : String; Separator : Char; Value : String');
15432: Procedure SubString_Insert(var Str:String;Separator:Char;SubStringIndex:Word;Value : String');
15433: Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word;newValue : String');
15434: Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15435: Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15436: Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer):String';
15437: Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15438: Function String_Quote( Str : String) : String';
15439: Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char) : Char';
15440: Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15441: Function String_GetWord( Str : String; StringRead : TStringRead) : String';
15442: Function String_GetInteger( Str : String; StringRead : TStringRead) : String';
15443: Function String_ToInt( Str : String) : Integer';
15444: Function String_Uppercase( Str : String; Options : TWordsOptions) : String';
15445: Function String_Lowercase( Str : String; Options : TWordsOptions) : String';
15446: Function String_Reverse( Str : String) : String';
15447: Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15448: Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive : TCaseSensitive):Integer';
15449: Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer) : String';
15450: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:_Inclusive:Boolean):String;
15451: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
  Between2MustExist : Boolean; CaseSensitive : TCaseSensitive) : String';
15452: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer) : String';
15453: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive) : String';
15454: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads) : String';
15455: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer) : String';
15456: Function String_Add(Str:string;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15457: Function String_End( Str : String; Cars : Word) : String';
15458: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
  AlwaysFindFromBeginning : Boolean) : String';
15459: Function String_SubstCar( Str : String; Old, New : Char) : String';
15460: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive) : Integer';
15461: Function String_SameCars(Str1,Str2:String;StopCount_IfDiferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15462: Function String_IsNumbers( Str : String) : Boolean';
15463: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer) : Integer';
15464: Function StringToCsvCell( aStr : String) : String';
15465: end;
15466:
15467: procedure SIRegister_cyDateUtils(CL: TPSPascalCompiler);
15468: begin
15469:   Function LongDayName( aDate : TDate) : String';
15470:   Function LongMonthName( aDate : TDate) : String';
15471:   Function ShortYearOf( aDate : TDate) : byte';
15472:   Function DateToStrYYYYMMDD( aDate : TDate) : String';
15473:   Function StrYYYYMMDDToDate( aStr : String) : TDate';
15474:   Function SecondsToMinutes( Seconds : Integer) : Double';
15475:   Function MinutesToSeconds( Minutes : Double) : Integer';
15476:   Function MinutesToHours( Minutes : Integer) : Double';
15477:   Function HoursToMinutes( Hours : Double) : Integer';
15478:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String) : TDateTime';
15479:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer)';
15480:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime) : TDateTime';
15481:   Function GetMinutesBetween( DateTimel, DateTime2 : TDateTime) : Int64';
15482:   Function GetMinutesBetween1(From_ShortTimeStr>To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15483:   Function GetSecondsBetween( DateTimel, DateTime2 : TDateTime) : Int64';
15484:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
  RsltBegin:TDateTime; RsltEnd : TDateTime) : Boolean';
15485:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15486:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime) : Boolean';
15487: end;
15488:
15489: procedure SIRegister_cyObjUtils(CL: TPSPascalCompiler);
15490: begin
15491:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15492:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15493:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15494:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15495:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions) : Integer';
15496:   Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind) : Integer';
15497:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer';
15498:   Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind)');
15499:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType)');
15500:   Function TreeNodeLocate( ParentNode : TTTreeNode; Value : String) : TTTreeNode';
15501:   Function TreeNodeLocateOnLevel( TreeView : TTTreeView; OnLevel : Integer; Value : String) : TTTreeNode';
15502:   Function
    TreeNodeGetChildFromIndex(TreeView:TTTreeView;ParentNode:TTTreeNode;ChildIndex:Integer):TTTreeNode';

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15503: Function TreeNodeGetParentOnLevel( ChildNode : TTreeNode; ParentLevel : Integer ) : TTreeNode';
15504: Procedure TreeNodeCopy(FromNode:TTreeNode;ToNode:TTreeNode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15505: Procedure RichEditSetStr( aRichEdit : TRichEdit; FormatedString : String' );
15506: Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15507: Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl';
15508: Procedure cyCenterControl( aControl : TControl' );
15509: Function GetLastParent( aControl : TControl ) : TWinControl';
15510: Function GetControlBitmap( aControl : TWinControl ) : TBitmap';
15511: Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap';
15512: end;
15513:
15514: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15515: begin
15516:   Function TablePackTable( Tab : TTable ) : Boolean';
15517:   Function TableRegenIndexes( Tab : TTable ) : Boolean';
15518:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean';
15519:   Function TableUndeleteRecord( Tab : TTable ) : Boolean';
15520:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15521:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean';
15522:   Function TableEmptyTable( Tab : TTable ) : Boolean';
15523:   Function TableFindKey( aTable : TTable; Value : String ) : Boolean';
15524:   Procedure TableFindNearest( aTable : TTable; Value : String' );
15525:   Function
TableCreate(Owner:TComponent;DataBaseName:ShortString;TableName:String;IndexName:ShortString;ReadOnly :
Boolean):TTable;
15526:   Function
TableOpen(Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool):Bool;
15527:   Function DateToBDESQLDate( aDate : TDate; const DateFormat : String ) : String';
15528: end;
15529:
15530: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15531: begin
15532:   SIRegister_TcyRunTimeDesign(CL);
15533:   SIRegister_TcyShadowText(CL);
15534:   SIRegister_TcyBgPicture(CL);
15535:   SIRegister_TcyGradient(CL);
15536:   SIRegister_TcyBevel(CL);
15537: //CL.AddTypes('TcyBevelClass', 'class of tcyBevel');
15538:   SIRegister_TcyBevels(CL);
15539:   SIRegister_TcyImagelistOptions(CL);
15540:   Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture' );
15541: end;
15542:
15543: procedure SIRegister_cyGraphics(CL: TPSPascalCompiler);
15544: begin
15545:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
adgradOrientation : TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
Maxdegrade : Byte'+
SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap' );
15547:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrade : byte);
15548:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrade:byte);
15549:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrade :
Byte; toRect : TRect; OrientationShape : TDgradOrientationShape' );
15550:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrade :
Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap' );
15551:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer' );
15552:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15553:   Procedure cyFrame1( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
BottomColor : TColor; const Width : Integer; const RoundRect : boolean );
15554:   Procedure cyFrame3D(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
BottomRightColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Boolean;const DrawRight:Boolean;const
DrawBottom:Boolean;const RoundRect:bool);
15555:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
aState : TButtonState; Focused, Hot : Boolean' );
15556:   Procedure cyDrawButton(Canvas:TCanvas;Caption:String;ARect:TRect;GradientColor1,GradientColor2:TColor;
aState : TButtonState; Focused, Hot : Boolean' );
15557:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 :
TColor; aState : TButtonState; Focused, Hot : Boolean' );
15558:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean' );
15559:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor' );
15560:   Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer' );
15561:   Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
TAlignment;Layout:TTextLayout;WordWrap:Boolean):LongInt;
15562:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt' );
15563:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt' );
15564:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont' );
15565:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont' );
15566:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout' );
15567:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord';
15568:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord';
15569:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ):boolean';

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15570: Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean');
15571: Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean');
15572: Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean');
15573: Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );');
15574: 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);
15575: 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;
15576: 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);');
15577: Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap );
15578: Function ValidGraphic( aGraphic : TGraphic ) : Boolean';
15579: Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor');
15580: Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor );
15581: Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor );
15582: Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor );
15583: Function MediumColor( Color1, Color2 : TColor ) : TColor );
15584: Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect );
15585: Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect );
15586: Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect );
15587: Procedure InflateRectPercent( var aRect : TRect; withPercent : Double );
15588: Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect );
15589: Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect );
15590: Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean );
15591: Function PointInEllispe( const aPt : TPoint; const aRect : TRect ) : boolean );
15592: Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer );
15593: end;
15594:
15595: procedure SIRegister_cyTypes(CL: TPPascalCompiler);
15596: begin
15597:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight )');
15598:   Type(TGlyphLayout', '( glTop, glCenter, glBottom )');
15599:   Type(TDisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome )');
15600:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis )');
15601:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed )');
15602:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15603:     + bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft)');
15604:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional )');
15605:   Type(TcyBevelCut', '( bcLowered, bcRaised, bcTransparent, bcGradientToNext )');
15606:   Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle )');
15607:   Type(TDgradOrientationShape', '( osRadial, osRectangle )');
15608:   Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15609:     bmInvertReverseFromColor);
15610:   Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
rjResizeTopLeft, rjResizeBottomLeft, rjResizeright, rjResizeTopRight, rjResizeBottomRight )');
15611:   Type(TLineCoord', 'record BottomCoord : TPoint; TopCoord : TPoint; end');
15612:   cCaptionOrientationWarning', 'String')('Note that text orientation doesn''t work with all fonts!');
15613: end;
15614: procedure SIRegister_WinSvc(CL: TPPascalCompiler);
15615: begin
15616:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15617:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15618:   Const SERVICES_ACTIVE_DATABASE , 'String')' SERVICES_ACTIVE_DATABASEA');
15619:   Const SERVICES_FAILED_DATABASEA', 'String' 'ServicesFailed');
15620:   Const SERVICES_FAILED_DATABASEW', 'String' 'ServicesFailed');
15621:   Const SERVICES_FAILED_DATABASE , 'String' 'SERVICES_FAILED_DATABASEA');
15622:   Const SC_GROUP_IDENTIFIERA', 'String'). '+');
15623:   Const SC_GROUP_IDENTIFIERW', 'String') '+');
15624:   Const SC_GROUP_IDENTIFIER , 'string 'SC_GROUP_IDENTIFIERA');
15625:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFF');
15626:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15627:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15628:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15629:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15630:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15631:   Const SERVICE_CONTROL_INTERROGATE , 'LongWord $00000004);
15632:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15633:   Const SERVICE_STOPPED', 'LongWord $00000001);
15634:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15635:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15636:   Const SERVICE_RUNNING', 'LongWord $00000004);
15637:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15638:   Const SERVICE_PAUSE_PENDING', 'LongWord $00000006);
15639:   Const SERVICE_PAUSED', 'LongWord $00000007);
15640:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15641:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15642:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15643:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15644:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15645:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15646:   Const SC_MANAGER_LOCK ', 'LongWord $0008);
15647:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15648:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);

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15649: Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15650: Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15651: Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15652: Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15653: Const SERVICE_START', 'LongWord $0010);
15654: Const SERVICE_STOP', 'LongWord $0020);
15655: Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15656: Const SERVICE_INTERROGATE', 'LongWord $0080);
15657: Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15658: Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15659: Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15660: Const SERVICE_ADAPTER', 'LongWord $00000004);
15661: Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15662: Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15663: Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15664: Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $000000100);
15665: Const SERVICE_BOOT_START', 'LongWord $00000000);
15666: Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15667: Const SERVICE_AUTO_START', 'LongWord $00000002);
15668: Const SERVICE_DEMAND_START', 'LongWord $00000003);
15669: Const SERVICE_DISABLED', 'LongWord $00000004);
15670: Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15671: Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15672: Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15673: Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15674: CL.AddTypeS('SC_HANDLE', 'THandle');
15675: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15676: CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15677: Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState :
15678: +': DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe
15679: +'cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15680: Const SERVICE_STATUS', '_SERVICE_STATUS');
15681: Const TServiceStatus', '_SERVICE_STATUS');
15682: CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis
15683: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15684: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15685: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15686: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15687: TEnumServiceStatus', 'TenumServiceStatusA');
15688: SC_LOCK', '__Pointer');
15689: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOner: PChar; dwLockDuration:DWORD; end';
15690: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15691: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15692: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15693: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15694: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15695: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15696: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT
15697: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO
15698: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ
15699: +'iceStartTime : PChar; lpDisplayName : PChar; end');
15700: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15701: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15702: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15703: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15704: TQueryServiceConfig', 'TQueryServiceConfigA');
15705: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL';
15706: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15707: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15708: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE';
15709: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15710: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE';
15711: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15712: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD ) : BOOL';
15713: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD ) : BOOL';
15714: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15715: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceNme,lpDisplayName:PChar;var
lpcchBuffer:DWORD):BOOL;
15716: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK );
15717: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL';
15718: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE';
15719: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE';
15720: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL';
15721: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15722: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15723: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15724: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL';
15725: end;
15726:
15727: procedure SIRegister_JvPickDate(CL: TPSPascalCompiler);
15728: begin
15729: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor:TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate: TDateTime):Boolean;

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15730: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
15731:   DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDate;
15732:   Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15733:   Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):TWinControl;
15734:   Procedure SetupPopupCalendar(PopupCalendar:TWinControl;AStartOfWeek:TDayOfWeekName;AWeekends:TDaysOfWeek;
15735:     AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:TDateTime);
15736:   Function CreateNotifyThread(const
15737:     FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15738: end;
15739: procedure SIRegister_JclNTFS2(CL: TPSCompiler);
15740: begin
15741:   CL.AddClassN(CL.FindClass('TOBJECT'),'EJclNtfsError');
15742:   CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15743:   Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean';
15744:   Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState';
15745:   Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean';
15746:   Procedure NtfsSetfileCompression2(const FileName : TFileName; const State : TFileCompressionState)';
15747:   Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)';
15748:   Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)';
15749:   Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)';
15750:   Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean';
15751:   Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean';
15752:   Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean';
15753:   Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean';
15754:   Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean';
15755:   Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean';
15756:   Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean';
15757:   Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean';
15758:   Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean';
15759:   Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean';
15760:   Function NtfsMountVolume2( const Volume : WideChar; const MountPoint : WideString ) : Boolean';
15761:   CL.AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
15762:   Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15763:   Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15764:   Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15765:   Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15766:   Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ):Boolean';
15767:   Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean';
15768:   Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15769:   Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string):Boolean;
15770:   CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15771:     +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints,siSparseFile)');
15772:   CL.AddTypeS('TStreamIds', 'set of TStreamId');
15773:   TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15774:   CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15775:     +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15776:   Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Bool;
15777:   Function NtfsFindNextStream2( var Data : TFindStreamData) : Boolean';
15778:   Function NtfsFindStreamClose2( var Data : TFindStreamData) : Boolean';
15779:   Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean';
15780:   Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15781:   Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15782:   CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15783:   Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean';
15784:   Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
15785:     List:TStrings):Bool
15786:   Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15787:   FindClass('TOBJECT'), 'EJclFileSummaryError');
15788:   TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )';
15789:   TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )';
15790:   TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean';
15791:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TJclFileSummary');
15792:   //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15793:   SIRegister_TJclFileSummary(CL);
15794:   SIRegister_TJclFileSummaryInformation(CL);
15795:   SIRegister_TJclDocSummaryInformation(CL);
15796:   SIRegister_TJclMediaFileSummaryInformation(CL);
15797:   SIRegister_TJclMSISummaryInformation(CL);
15798:   SIRegister_TJclShellSummaryInformation(CL);
15799:   SIRegister_TJclStorageSummaryInformation(CL);
15800:   SIRegister_TJclImageSummaryInformation(CL);
15801:   SIRegister_TJclDisplacedSummaryInformation(CL);
15802:   SIRegister_TJclBriefCaseSummaryInformation(CL);
15803:   SIRegister_TJclMiscSummaryInformation(CL);
15804:   SIRegister_TJclWebViewSummaryInformation(CL);
15805:   SIRegister_TJclMusicSummaryInformation(CL);
15806:   SIRegister_TJclDRMSummaryInformation(CL);
15807:   SIRegister_TJclVideoSummaryInformation(CL);
15808:   SIRegister_TJclAudioSummaryInformation(CL);
15809:   SIRegister_TJclControlPanelSummaryInformation(CL);
15810:   SIRegister_TJclVolumeSummaryInformation(CL);
15811:   SIRegister_TJclShareSummaryInformation(CL);
15812:   SIRegister_TJclLinkSummaryInformation(CL);
15813:   SIRegister_TJclQuerySummaryInformation(CL);

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15814:   SIRegister_TJclImageInformation(CL);
15815:   SIRegister_TJclJpegSummaryInformation(CL);
15816: end;
15817;
15818: procedure SIRegister_Jcl8087(CL: TPSPPascalCompiler);
15819: begin
15820:   AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15821:   T8087Rounding,'( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate )');
15822:   T8087Infinity,'( icProjective, icAffine )');
15823:   T8087Exception,'( emInvalidOp,emDenormalizedOperand,emZeroDivide,emOverflow,emUnderflow,emPrecision );
15824:   CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15825:   Function Get8087ControlWord : Word');
15826:   Function Get8087Infinity : T8087Infinity');
15827:   Function Get8087Precision : T8087Precision');
15828:   Function Get8087Rounding : T8087Rounding');
15829:   Function Get8087StatusWord( ClearExceptions : Boolean ) : Word');
15830:   Function Set8087Infinity( const Infinity : T8087Infinity ) : T8087Infinity');
15831:   Function Set8087Precision( const Precision : T8087Precision ) : T8087Precision');
15832:   Function Set8087Rounding( const Rounding : T8087Rounding ) : T8087Rounding');
15833:   Function Set8087ControlWord( const Control : Word ) : Word');
15834:   Function ClearPending8087Exceptions : T8087Exceptions');
15835:   Function GetPending8087Exceptions : T8087Exceptions');
15836:   Function GetMasked8087Exceptions : T8087Exceptions');
15837:   Function SetMasked8087Exceptions(Exceptions: T8087Exceptions;ClearBefore:Boolean):T8087Exceptions');
15838:   Function Mask8087Exceptions( Exceptions:T8087Exceptions ) : T8087Exceptions');
15839:   Function Unmask8087Exceptions(Exceptions:T8087Exceptions;ClearBefore : Boolean) : T8087Exceptions');
15840: end;
15841;
15842: procedure SIRegister_JvBoxProcs(CL: TPSPPascalCompiler);
15843: begin
15844:   Procedure BoxMoveSelectedItems( SrcList, DstList : TWInControl );
15845:   Procedure BoxMoveAllItems( SrcList, DstList : TWInControl );
15846:   Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
Accept:Bool;Sorted:Bool;
15847:   Procedure BoxMoveFocusedItem( List : TWInControl; DstIndex : Integer );
15848:   Procedure BoxMoveSelected( List : TWInControl; Items : TStrings );
15849:   Procedure BoxSetItem( List : TWInControl; Index : Integer );
15850:   Function BoxGetFirstSelection( List : TWInControl ) : Integer );
15851:   Function BoxCanDropItem( List : TWInControl; X, Y : Integer; var DragIndex : Integer ) : Boolean );
15852: end;
15853;
15854: procedure SIRegister_UrlMon(CL: TPSPPascalCompiler);
15855: begin
15856:   //CL.AddConstantN('SZ_URLCONTEXT','POLEStr').SetString( 'URL Context');
15857:   //CL.AddConstantN('SZ_ASYNC_CALLEE','POLEStr').SetString( 'AsyncCallee');
15858:   CL.AddConstantN('MKSYS_URLMONIKER','LongInt').SetInt( 6 );
15859:   type ULONG', 'Cardinal');
15860:   LPCWSTR', 'PChar');
15861:   CL.AddTypeS('LPWSTR', 'PChar');
15862:   LPSTR', 'PChar');
15863:   TBindVerb', 'ULONG');
15864:   TBindInfoF', 'ULONG');
15865:   TBindF', 'ULONG');
15866:   TBSF', 'ULONG');
15867:   TBindStatus', 'ULONG');
15868:   TCIPStatus', 'ULONG');
15869:   TBindString', 'ULONG');
15870:   TPiFlags', 'ULONG');
15871:   TOIBdgFlags', 'ULONG');
15872:   TParseAction', 'ULONG');
15873:   TPSUAction', 'ULONG');
15874:   TQueryOption', 'ULONG');
15875:   TPUAF', 'ULONG');
15876:   TSZMFlags', 'ULONG');
15877:   TUrlZone', 'ULONG');
15878:   TUrlTemplate', 'ULONG');
15879:   TZAFlags', 'ULONG');
15880:   TUrlZoneReg', 'ULONG');
15881:   'URLMON_OPTION_USERAGENT','LongWord').SetUInt( $10000001 );
15882:   CL.AddConstantN('URLMON_OPTION_USERAGENT_REFRESH','LongWord').SetUInt( $10000002 );
15883:   const 'URLMON_OPTION_URL_ENCODING','LongWord').SetUInt( $10000004 );
15884:   const 'URLMON_OPTION_USE_BINDSTRINGCREDS','LongWord').SetUInt( $10000008 );
15885:   const 'CF_NULL','LongInt').SetInt( 0 );
15886:   const 'CFSTR_MIME_NULL','LongInt').SetInt( 0 );
15887:   const 'CFSTR_MIME_TEXT','String').SetString( 'text/plain' );
15888:   const 'CFSTR_MIME_RICHTEXT','String').SetString( 'text/richtext' );
15889:   const 'CFSTR_MIME_X_BITMAP','String').SetString( 'image/x-xbitmap' );
15890:   const 'CFSTR_MIME_POSTSCRIPT','String').SetString( 'application/postscript' );
15891:   const 'CFSTR_MIME_AIFF','String').SetString( 'audio/aiff' );
15892:   const 'CFSTR_MIME_BASICAUDIO','String').SetString( 'audio/basic' );
15893:   const 'CFSTR_MIME_WAV','String').SetString( 'audio/wav' );
15894:   const 'CFSTR_MIME_X_WAV','String').SetString( 'audio/x-wav' );
15895:   const 'CFSTR_MIME_GIF','String').SetString( 'image/gif' );
15896:   const 'CFSTR_MIME_PJPEG','String').SetString( 'image/jpeg' );
15897:   const 'CFSTR_MIME_JPEG','String').SetString( 'image/jpeg' );
15898:   const 'CFSTR_MIME_TIFF','String').SetString( 'image/tiff' );
15899:   const 'CFSTR_MIME_X_PNG','String').SetString( 'image/x-png' );
15900:   const 'CFSTR_MIME_BMP','String').SetString( 'image/bmp' );
15901:   const 'CFSTR_MIME_X_ART','String').SetString( 'image/x-jpg' );

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15902: const 'CFSTR_MIME_X_EMF','String').SetString( 'image/x-emf');
15903: const 'CFSTR_MIME_X_WMF','String').SetString( 'image/x-wmf');
15904: const 'CFSTR_MIME_AVI','String').SetString( 'video/avi');
15905: const 'CFSTR_MIME_MPEG','String').SetString( 'video/mpeg');
15906: const 'CFSTR_MIME_FRACTALS','String').SetString( 'application/fractals');
15907: const 'CFSTR_MIME_RAWDATA','String').SetString( 'application/octet-stream');
15908: const 'CFSTR_MIME_RAWDATASTRM','String').SetString( 'application/octet-stream');
15909: const 'CFSTR_MIME_PDF','String').SetString( 'application/pdf');
15910: const 'CFSTR_MIME_X_AIFF','String').SetString( 'audio/x-aiff');
15911: const 'CFSTR_MIME_X_REALAUDIO','String').SetString( 'audio/x-pn-realaudio');
15912: const 'CFSTR_MIME_XBM','String').SetString( 'image/xbm');
15913: const 'CFSTR_MIME_QUICKTIME','String').SetString( 'video/quicktime');
15914: const 'CFSTR_MIME_X_MSVIDEO','String').SetString( 'video/x-msvideo');
15915: const 'CFSTR_MIME_X_SGI_MOVIE','String').SetString( 'video/x-sgi-movie');
15916: const 'CFSTR_MIME_HTML','String').SetString( 'text/html');
15917: const 'MK_S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);
15918: const 'S_ASYNCNCHRONOUS','LongWord').SetUInt( $000401E8);
15919: const 'E_PENDING','LongWord').SetUInt( $8000000A);
15920: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15921: SIRegister_IPersistMoniker(CL);
15922: SIRegister_IBindProtocol(CL);
15923: SIRegister_IBinding(CL);
15924: const 'BINDVERB_GET','LongWord').SetUInt( $00000000);
15925: const 'BINDVERB_POST','LongWord').SetUInt( $00000001);
15926: const 'BINDVERB_PUT','LongWord').SetUInt( $00000002);
15927: const 'BINDVERB_CUSTOM','LongWord').SetUInt( $00000003);
15928: const 'BINDINFO_URLENCODESTGMEDDATA','LongWord').SetUInt( $00000001);
15929: const 'BINDINFO_URLCODEDEXTRAINFO','LongWord').SetUInt( $00000002);
15930: const 'BINDF_ASYNCNCHRONOUS','LongWord').SetUInt( $00000001);
15931: const 'BINDF_ASYNCNSTORAGE','LongWord').SetUInt( $00000002);
15932: const 'BINDF_NOPROGRESSIVERENDERING','LongWord').SetUInt( $00000004);
15933: const 'BINDF_OFFLINEOPERATION','LongWord').SetUInt( $00000008);
15934: const 'BINDF_GETNEWESTVERSION','LongWord').SetUInt( $00000010);
15935: const 'BINDF_NOWRITECACHE','LongWord').SetUInt( $00000020);
15936: const 'BINDF_NEEDFILE','LongWord').SetUInt( $00000040);
15937: const 'BINDF_PULLDATA','LongWord').SetUInt( $00000080);
15938: const 'BINDF_IGNORESECURITYPROBLEM','LongWord').SetUInt( $00000100);
15939: const 'BINDF_RESYNCHRONIZE','LongWord').SetUInt( $00000200);
15940: const 'BINDF_HYPERLINK','LongWord').SetUInt( $00000400);
15941: const 'BINDF_NO_UI','LongWord').SetUInt( $00000800);
15942: const 'BINDF_SILENTOPERATION','LongWord').SetUInt( $00001000);
15943: const 'BINDF_PRAGMA_NO_CACHE','LongWord').SetUInt( $00002000);
15944: const 'BINDF_FREE_THREADED','LongWord').SetUInt( $00010000);
15945: const 'BINDF_DIRECT_READ','LongWord').SetUInt( $00020000);
15946: const 'BINDF_FORMS_SUBMIT','LongWord').SetUInt( $00040000);
15947: const 'BINDF_GETFROMCACHE_IF_NET_FAIL','LongWord').SetUInt( $00080000);
15948: //const 'BINDF_DONTUSECACHE','','').SetString( BINDF_GETNEWESTVERSION);
15949: //const 'BINDF_DONTPUTINCACHE','','').SetString( BINDF_NOWRITECACHE);
15950: //const 'BINDF_NOCOPYDATA','','').SetString( BINDF_PULLDATA);
15951: const 'BCSF_FIRSTDATANOTIFICATION','LongWord').SetUInt( $00000001);
15952: const 'BCSF_INTERMEDIATEDATANOTIFICATION','LongWord').SetUInt( $00000002);
15953: const 'BCSF_LASTDATANOTIFICATION','LongWord').SetUInt( $00000004);
15954: const 'BCSF_DATAFULLYAVAILABLE','LongWord').SetUInt( $00000008);
15955: const 'BCSF_AVAILABLEDATASIZEUNKNOWN','LongWord').SetUInt( $00000010);
15956: const 'BINDSTATUS_FINDINGRESOURCE','LongInt').SetInt( 1);
15957: const 'BINDSTATUS_CONNECTING','LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
15958: const 'BINDSTATUS_REDIRECTING','LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
15959: const 'BINDSTATUS_BEGINDOWNLOADDATA','LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
15960: const 'BINDSTATUS_DOWNLOADINGDATA','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADDATA + 1);
15961: const 'BINDSTATUS_ENDDOWNLOADDATA','LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
15962: const 'BINDSTATUS_BEGINDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADDATA + 1);
15963: const 'BINDSTATUS_INSTALLINGCOMPONENTS','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADCOMPONENTS + 1);
15964: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
15965: const 'BINDSTATUS_USINGCACHEDCOPY','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
15966: const 'BINDSTATUS_SENDINGREQUEST','LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
15967: const 'BINDSTATUS_CLASSIDAVAILABLE','LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
15968: const 'BINDSTATUS_MIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
15969: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
15970: const 'BINDSTATUS_BEGINSYNCOOPERATION','LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
15971: const 'BINDSTATUS_ENDSYNCOOPERATION','LongInt').SetInt( BINDSTATUS_BEGINSYNCOOPERATION + 1);
15972: const 'BINDSTATUS_BEGINUPLOADDATA','LongInt').SetInt( BINDSTATUS_ENDSYNCOOPERATION + 1);
15973: const 'BINDSTATUS_UPLOADINGDATA','LongInt').SetInt( BINDSTATUS_BEGINUPLOADDATA + 1);
15974: const 'BINDSTATUS_ENDUPLOADDATA','LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
15975: const 'BINDSTATUS_PROTOCOLCLASSID','LongInt').SetInt( BINDSTATUS_ENDUPLOADDATA + 1);
15976: const 'BINDSTATUS_ENCODING','LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
15977: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_ENCODING + 1);
15978: const 'BINDSTATUS_CLASSINSTALLLOCATION','LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
15979: const 'BINDSTATUS_DECODING','LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
15980: const 'BINDSTATUS_LOADINGMIMEHANDLER','LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
15981: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH','LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
15982: const 'BINDSTATUS_FILTERREPORTMIMETYPE','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
15983: const 'BINDSTATUS_CLSIDCANINSTANTIATE','LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
15984: const 'BINDSTATUS_UNKNOWNAVAILABLE','LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
15985: const 'BINDSTATUS_DIRECTBIND','LongInt').SetInt( BINDSTATUS_UNKNOWNAVAILABLE + 1);
15986: const 'BINDSTATUS_RAWMIMETYPE','LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
15987: const 'BINDSTATUS_PROXYDETECTING','LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
15988: const 'BINDSTATUS_ACCEPTRANGES','LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
15989: const 'BINDSTATUS_COOKIE_SENT','LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
15990: const 'BINDSTATUS_COMPACT_POLICY RECEIVED','LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);

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15991: const 'BINDSTATUS_COOKIE_SUPPRESSED','LongInt').SetInt( BINDSTATUS_COMPACT_POLICY_RECEIVED + 1);
15992: const 'BINDSTATUS_COOKIE_STATE_UNKNOWN','LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
15993: const 'BINDSTATUS_COOKIE_STATE_ACCEPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_UNKNOWN + 1);
15994: const 'BINDSTATUS_COOKIE_STATE_REJECT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_ACCEPT + 1);
15995: const 'BINDSTATUS_COOKIE_STATE_PROMPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_REJECT + 1);
15996: const 'BINDSTATUS_COOKIE_STATE_LEASH','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_PROMPT + 1);
15997: const 'BINDSTATUS_COOKIE_STATE_DOWNGRADE','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_LEASH + 1);
15998: const 'BINDSTATUS_POLICY_HREF','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
15999: const 'BINDSTATUS_P3P_HEADER','LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
16000: const 'BINDSTATUS_SESSION_COOKIE RECEIVED','LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
16001: const 'BINDSTATUS_PERSISTENT_COOKIE RECEIVED','LongInt').SetInt( BINDSTATUS_SESSION_COOKIE RECEIVED + 1);
16002: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED','LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE RECEIVED + 1);
16003: const 'BINDSTATUS_CACHECONTROL','LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
16004: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME','LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
16005: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
16006: const 'BINDSTATUS_PUBLISHERAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
16007: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
16008: // PBindInfo , '^TBindInfo // will not work');
16009: {_tagBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
16010: +'medData : STsgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
16011: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
16012: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
16013: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
16014: TBindInfo', '_tagBINDINFO');
16015: BINDINFO', '_tagBINDINFO');
16016: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
16017: +'criptor : DWORD; bInheritHandle : BOOL; end');
16018: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
16019: REMSecurity_ATTRIBUTES', '_REMSecurity_ATTRIBUTES');
16020: //PRemBindInfo , '^TRemBindInfo // will not work');
16021: {_tagRemBindINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; '
16022: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16023: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16024: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknown'
16025: +'n; dwReserved : DWORD; end');
16026: TRemBindInfo', '_tagRemBindINFO');
16027: RemBindINFO', '_tagRemBindINFO');
16028: //PRemFormatEtc', '^TRemFormatEtc // will not work');
16029: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16030: TRemFormatEtc', 'tagRemFORMATETC');
16031: RemFORMATETC', 'tagRemFORMATETC');
16032: SIRegister_IBindStatusCallback(CL);
16033: SIRegister_IAuthenticate(CL);
16034: SIRegister_IHttpNegotiate(CL);
16035: SIRegister_IWindowForBindingUI(CL);
16036: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16037: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16038: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16039: const 'CIP_Older_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16040: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_Older_VERSION_EXISTS + 1);
16041: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16042: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT','LongInt').SetInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16043: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1);
16044: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16045: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16046: SIRegister_ICodeInstall(CL);
16047: SIRegister_IWInetInfo(CL);
16048: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16049: SIRegister_IHttpSecurity(CL);
16050: SIRegister_IWInetHttpInfo(CL);
16051: SIRegister_IBindHost(CL);
16052: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16053: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16054: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16055: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16056: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult';
16057: Function URLDownloadToFile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback ) : HResult';
16058: Function URLDownloadToCacheFile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback ) : HResult';
16059: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback):HResult';
16060: Function HlinkGoBack( unk : IUnknown ) : HResult';
16061: Function HlinkGoForward( unk : IUnknown ) : HResult';
16062: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult';
16063: // Function HlinkNavigateMoniker( unk : IUnknown; mkTarget : IMoniker ) : HResult';
16064: SIRegister_IInternet(CL);
16065: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16066: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16067: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16068: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16069: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16070: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16071: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16072: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16073: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16074: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16075: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16076: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);

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16077: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16078: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16079: //POLEStrArray', '^TOLESTRArray // will not work');
16080: SIRegister_IInternetBindInfo(CL);
16081: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16082: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16083: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);
16084: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008);
16085: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010);
16086: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020);
16087: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040);
16088: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080);
16089: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16090: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200);
16091: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000);
16092: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP);
16093: //PProtocolData', '^TProtocolData // will not work');
16094: _tagPROTOCOLDATA', record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16095: TProtocolData', '_tagPROTOCOLDATA');
16096: PROTOCOLDATA', '_tagPROTOCOLDATA');
16097: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IIInternetProtocolSink, 'IIInternetProtocolSink');
16098: SIRegister_IInternetProtocolRoot(CL);
16099: SIRegister_IInternetProtocol(CL);
16100: SIRegister_IInternetProtocolSink(CL);
16101: const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16102: SIRegister_IInternetSession(CL);
16103: SIRegister_IInternetThreadSwitch(CL);
16104: SIRegister_IInternetPriority(CL);
16105: const 'PARSE_CANONICALIZE','LongInt').SetInt( 1);
16106: const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1);
16107: const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1);
16108: const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1);
16109: const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16110: const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1);
16111: const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1);
16112: const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1);
16113: const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1);
16114: const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16115: const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16116: const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16117: const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16118: const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16119: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16120: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16121: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16122: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16123: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16124: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16125: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16126: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16127: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16128: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16129: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16130: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16131: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16132: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16133: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16134: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16135: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16136: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16137: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16138: SIRegister_IInternetProtocolInfo(CL);
16139: IOInet', 'IIInternet');
16140: IOInetBindInfo', 'IIInternetBindInfo');
16141: IOInetProtocolRoot', 'IIInternetProtocolRoot');
16142: IOInetProtocol', 'IIInternetProtocol');
16143: IOInetProtocolSink', 'IIInternetProtocolSink');
16144: IOInetProtocolInfo', 'IIInternetProtocolInfo');
16145: IOInetSession', 'IIInternetSession');
16146: IOInetPriority', 'IIInternetPriority');
16147: IOInetThreadSwitch', 'IIInternetThreadSwitch');
16148: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16149: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16150: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult');
16151: Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags DWORD; dwReserved:DWORD):HResult');
16152: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16153: Function CoInternetGetSession(dwSessionMode:DWORD; var piInternetSession: IIInternetSes;dwReserved:DWORD):HResult;
16154: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TProtocolAction;dwReserv:DWORD):HResult;
16155: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16156: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16157: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : Hresult');
16158: Function OinetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult');

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16159: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer :
16160:     TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult;
16161:     //Function CopyBindInfo( const cbiSrc : TBindInfo; var biDest : TBindInfo) : HResult';
16162:     //Procedure ReleaseBindInfo( const bindinfo : TBindInfo);
16163:     // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult ( $800C0011 ) );
16164:     // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult ( $800C0012 ) );
16165:     //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult ( $800C0011 ) );
16166:     //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult ( $800C0013 ) );
16167:     //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult ( $800C0014 ) );
16168:     const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001);
16169:     SIRegister_IInternetSecurityMgrSite(CL);
16170:     const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001);
16171:     const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002);
16172:     const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16173:     const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16174:     const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16175:     const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16176:     const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16177:     const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16178:     const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);
16179:     const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004);
16180:     const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008);
16181:     const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010);
16182:     const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020);
16183:     const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040);
16184:     const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16185:     const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16186:     const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200);
16187:     const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16188:     const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000);
16189:     const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000);
16190:     const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000);
16191:     const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000);
16192:     const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000);
16193:     const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0);
16194:     const 'PUAFOUT_ISFAULTZONEPOLICY','LongWord').SetUInt( $1);
16195:     const 'SZM_CREATE','LongWord').SetUInt( $00000000);
16196:     const 'SZM_DELETE','LongWord').SetUInt( $00000001);
16197:     SIRegister_IInternetSecurityManager(CL);
16198:     SIRegister_IInternetHostSecurityManager(CL);
16199:     SIRegister_IInternetSecurityManagerEx(CL);
16200:     const 'URLACTION_MIN','LongWord').SetUInt( $00001000);
16201:     const 'URLACTION_DOWNLOAD_MIN','LongWord').SetUInt( $00001000);
16202:     const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX','LongWord').SetUInt( $00001001);
16203:     const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX','LongWord').SetUInt( $00001004);
16204:     const 'URLACTION_DOWNLOAD_CURR_MAX','LongWord').SetUInt( $00001004);
16205:     const 'URLACTION_DOWNLOAD_MAX','LongWord').SetUInt( $000011FF);
16206:     const 'URLACTION_ACTIVEX_MIN','LongWord').SetUInt( $00001200);
16207:     const 'URLACTION_ACTIVEX_RUN','LongWord').SetUInt( $00001200);
16208:     const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY','LongWord').SetUInt( $00001201);
16209:     const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY','LongWord').SetUInt( $00001202);
16210:     const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY','LongWord').SetUInt( $00001203);
16211:     const 'URLACTION_SCRIPT_OVERRIDE_SAFETY','LongWord').SetUInt( $00001401);
16212:     const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY','LongWord').SetUInt( $00001204);
16213:     const 'URLACTION_ACTIVEX_TREATASUNTRUSTED','LongWord').SetUInt( $00001205);
16214:     const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT','LongWord').SetUInt( $00001206);
16215:     const 'URLACTION_ACTIVEX_CURR_MAX','LongWord').SetUInt( $00001206);
16216:     const 'URLACTION_ACTIVEX_MAX','LongWord').SetUInt( $000013FF);
16217:     const 'URLACTION_SCRIPT_MIN','LongWord').SetUInt( $00001400);
16218:     const 'URLACTION_SCRIPT_RUN','LongWord').SetUInt( $00001400);
16219:     const 'URLACTION_SCRIPT_JAVA_USE','LongWord').SetUInt( $00001402);
16220:     const 'URLACTION_SCRIPT_SAFE_ACTIVEX','LongWord').SetUInt( $00001405);
16221:     const 'URLACTION_SCRIPT_CURR_MAX','LongWord').SetUInt( $00001405);
16222:     const 'URLACTION_SCRIPT_MAX','LongWord').SetUInt( $000015FF);
16223:     const 'URLACTION_HTML_MIN','LongWord').SetUInt( $00001600);
16224:     const 'URLACTION_HTML_SUBMIT_FORMS','LongWord').SetUInt( $00001601);
16225:     const 'URLACTION_HTML_SUBMIT_FORMS_FROM','LongWord').SetUInt( $00001602);
16226:     const 'URLACTION_HTML_SUBMIT_FORMS_TO','LongWord').SetUInt( $00001603);
16227:     const 'URLACTION_HTML_FONT_DOWNLOAD','LongWord').SetUInt( $00001604);
16228:     const 'URLACTION_HTML_JAVA_RUN','LongWord').SetUInt( $00001605);
16229:     const 'URLACTION_HTML_CURR_MAX','LongWord').SetUInt( $00001605);
16230:     const 'URLACTION_HTML_MAX','LongWord').SetUInt( $000017FF);
16231:     const 'URLACTION_SHELL_MIN','LongWord').SetUInt( $00001800);
16232:     const 'URLACTION_SHELL_INSTALL_DTITEMS','LongWord').SetUInt( $00001800);
16233:     const 'URLACTION_SHELL_MOVE_OR_COPY','LongWord').SetUInt( $00001802);
16234:     const 'URLACTION_SHELL_FILE_DOWNLOAD','LongWord').SetUInt( $00001803);
16235:     const 'URLACTION_SHELL_VERB','LongWord').SetUInt( $00001804);
16236:     const 'URLACTION_SHELL_WEBVIEW_VERB','LongWord').SetUInt( $00001805);
16237:     const 'URLACTION_SHELL_SHELLEXECUTE','LongWord').SetUInt( $00001806);
16238:     const 'URLACTION_SHELL_EXECUTE_HIGHRISK','LongWord').SetUInt( $00001806);
16239:     const 'URLACTION_SHELL_EXECUTE_MODRISK','LongWord').SetUInt( $00001807);
16240:     const 'URLACTION_SHELL_EXECUTE_LOWRISK','LongWord').SetUInt( $00001808);
16241:     const 'URLACTION_SHELL_POPUPMGR','LongWord').SetUInt( $00001809);
16242:     const 'URLACTION_SHELL_CURR_MAX','LongWord').SetUInt( $00001809);
16243:     const 'URLACTION_SHELL_MAX','LongWord').SetUInt( $000019ff);
16244:     const 'URLACTION_NETWORK_MIN','LongWord').SetUInt( $00001A00);
16245:     const 'URLACTION_CREDENTIALS_USE','LongWord').SetUInt( $00001A00);

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16246: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK','LongWord').SetUInt( $00000000);
16247: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER','LongWord').SetUInt( $00010000);
16248: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT','LongWord').SetUInt( $00020000);
16249: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY','LongWord').SetUInt( $00030000);
16250: const 'URLACTION_AUTHENTICATE_CLIENT','LongWord').SetUInt( $00001A01);
16251: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK','LongWord').SetUInt( $00000000);
16252: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE','LongWord').SetUInt( $00010000);
16253: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY','LongWord').SetUInt( $00030000);
16254: const 'URLACTION_NETWORK_CURR_MAX','LongWord').SetUInt( $00001A01);
16255: const 'URLACTION_NETWORK_MAX','LongWord').SetUInt( $00001BFF);
16256: const 'URLACTION_JAVA_MIN','LongWord').SetUInt( $00001C00);
16257: const 'URLACTION_JAVA_PERMISSIONS','LongWord').SetUInt( $00001C00);
16258: const 'URLPOLICY_JAVA_PROHIBIT','LongWord').SetUInt( $00000000);
16259: const 'URLPOLICY_JAVA_HIGH','LongWord').SetUInt( $00010000);
16260: const 'URLPOLICY_JAVA_MEDIUM','LongWord').SetUInt( $00020000);
16261: const 'URLPOLICY_JAVA_LOW','LongWord').SetUInt( $00030000);
16262: const 'URLPOLICY_JAVA_CUSTOM','LongWord').SetUInt( $00800000);
16263: const 'URLACTION_JAVA_CURR_MAX','LongWord').SetUInt( $00001C00);
16264: const 'URLACTION_JAVA_MAX','LongWord').SetUInt( $00001CFF);
16265: const 'URLACTION_INFODELIVERY_MIN','LongWord').SetUInt( $00001D00);
16266: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS','LongWord').SetUInt( $00001D00);
16267: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS','LongWord').SetUInt( $00001D01);
16268: const 'URLACTION_INFODELIVERY_NO_Removing_CHANNELS','LongWord').SetUInt( $00001D02);
16269: const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D03);
16270: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS','LongWord').SetUInt( $00001D04);
16271: const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS','LongWord').SetUInt( $00001D05);
16272: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING','LongWord').SetUInt( $00001D06);
16273: const 'URLACTION_INFODELIVERY_CURR_MAX','LongWord').SetUInt( $00001D06);
16274: const 'URLACTION_INFODELIVERY_MAX','LongWord').SetUInt( $00001Dff);
16275: const 'URLACTION_CHANNEL_SOFTDIST_MIN','LongWord').SetUInt( $00001E00);
16276: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS','LongWord').SetUInt( $00001E05);
16277: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT','LongWord').SetUInt( $00010000);
16278: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE','LongWord').SetUInt( $00020000);
16279: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL','LongWord').SetUInt( $00030000);
16280: const 'URLACTION_CHANNEL_SOFTDIST_MAX','LongWord').SetUInt( $00001EFF);
16281: const 'URLACTION_BEHAVIOR_MIN','LongWord').SetUInt( $0002000);
16282: const 'URLACTION_BEHAVIOR_RUN','LongWord').SetUInt( $00002000);
16283: const 'URLPOLICY_BEHAVIOR_CHECK_LIST','LongWord').SetUInt( $00010000);
16284: const 'URLACTION_FEATURE_MIN','LongWord').SetUInt( $00002100);
16285: const 'URLACTION_FEATURE_MIME_SNIFFING','LongWord').SetUInt( $00002100);
16286: const 'URLACTION_FEATURE_ZONE_ELEVATION','LongWord').SetUInt( $00002101);
16287: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS','LongWord').SetUInt( $00002102);
16288: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN','LongWord').SetUInt( $00002200);
16289: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI','LongWord').SetUInt( $00002200);
16290: const 'URLACTION_AUTOMATIC_ACTIVE_X_UI','LongWord').SetUInt( $00002201);
16291: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS','LongWord').SetUInt( $00002300);
16292: const 'URLPOLICY_ALLOW','LongWord').SetUInt( $00);
16293: const 'URLPOLICY_QUERY','LongWord').SetUInt( $01);
16294: const 'URLPOLICY_DISALLOW','LongWord').SetUInt( $03);
16295: const 'URLPOLICY_NOTIFY_ON_ALLOW','LongWord').SetUInt( $10);
16296: const 'URLPOLICY_NOTIFY_ON_DISALLOW','LongWord').SetUInt( $20);
16297: const 'URLPOLICY_LOG_ON_ALLOW','LongWord').SetUInt( $40);
16298: const 'URLPOLICY_LOG_ON_DISALLOW','LongWord').SetUInt( $80);
16299: const 'URLPOLICY_MASK_PERMISSIONS','LongWord').SetUInt( $0f);
16300: Function GetUrlPolicyPermissions( dw : DWORD) : DWORD';
16301: Function SetUrlPolicyPermissions( dw, dw2 : DWORD) : DWORD';
16302: const 'URLZONE_PREDEFINED_MIN','LongInt').SetInt( 0);
16303: const 'URLZONE_LOCAL_MACHINE','LongInt').SetInt( 0);
16304: const 'URLZONE_INTRANET','LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16305: const 'URLZONE_TRUSTED','LongInt').SetInt( URLZONE_INTRANET + 1);
16306: const 'URLZONE_INTERNET','LongInt').SetInt( URLZONE_TRUSTED + 1);
16307: const 'URLZONE_UNTRUSTED','LongInt').SetInt( URLZONE_INTERNET + 1);
16308: const 'URLZONE_PREDEFINED_MAX','LongInt').SetInt( 999);
16309: const 'URLZONE_USER_MIN','LongInt').SetInt( 1000);
16310: const 'URLZONE_USER_MAX','LongInt').SetInt( 10000);
16311: const 'URLTEMPLATE_CUSTOM','LongWord').SetUInt( $00000000);
16312: const 'URLTEMPLATE_PREDEFINED_MIN','LongWord').SetUInt( $00010000);
16313: const 'URLTEMPLATE_LOW','LongWord').SetUInt( $00010000);
16314: const 'URLTEMPLATE_MEDIUM','LongWord').SetUInt( $00011000);
16315: const 'URLTEMPLATE_HIGH','LongWord').SetUInt( $00012000);
16316: const 'URLTEMPLATE_PREDEFINED_MAX','LongWord').SetUInt( $00020000);
16317: const 'MAX_ZONE_PATH','LongInt').SetInt( 260);
16318: const 'MAX_ZONE_DESCRIPTION','LongInt').SetInt( 200);
16319: const 'ZAFLAGS_CUSTOM_EDIT','LongWord').SetUInt( $00000001);
16320: const 'ZAFLAGS_ADD_SITES','LongWord').SetUInt( $00000002);
16321: const 'ZAFLAGS_REQUIRE_VERIFICATION','LongWord').SetUInt( $00000004);
16322: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE','LongWord').SetUInt( $00000008);
16323: const 'ZAFLAGS_INCLUDE_INTRANET_SITES','LongWord').SetUInt( $00000010);
16324: const 'ZAFLAGS_NO_UI','LongWord').SetUInt( $00000020);
16325: const 'ZAFLAGS_SUPPORTS_VERIFICATION','LongWord').SetUInt( $00000040);
16326: const 'ZAFLAGS_UNC_AS_INTRANET','LongWord').SetUInt( $00000080);
16327: const 'ZAFLAGS_USE_LOCKED_ZONES','LongWord').SetUInt( $00010000);
16328: //ZoneAttributes , 'TZoneAttributes // will not work';
16329: _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';
16330: { _ZONEATTRIBUTES = packed record
16331:   cbSize: ULONG;
16332:   szDisplayName: array [0..260 - 1] of WideChar;

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16333:     szDescription: array [0..200 - 1] of WideChar;
16334:     szIconPath: array [0..260 - 1] of WideChar;
16335:     dwTemplateMinLevel: DWORD;
16336:     dwTemplateRecommended: DWORD;
16337:     dwTemplateCurrentLevel: DWORD;
16338:     dwFlags: DWORD;
16339:   end;
16340: TZoneAttributes', '_ZONEATTRIBUTES');
16341: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16342: const 'URLZONEREG_DEFAULT','LongInt').SetInt( 0 );
16343: const 'URLZONEREG_HKLM','LongInt').SetInt( URLZONEREG_DEFAULT + 1 );
16344: const 'URLZONEREG_HKCU','LongInt').SetInt( URLZONEREG_HKLM + 1 );
16345: SIRegister_IInternetZoneManager(CL);
16346: SIRegister_IInternetZoneManagerEx(CL);
16347: const 'SOFTDIST_FLAG_USAGE_EMAIL','LongWord').SetUInt( $00000001);
16348: const 'SOFTDIST_FLAG_USAGE_PRECACHE','LongWord').SetUInt( $00000002);
16349: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL','LongWord').SetUInt( $00000004);
16350: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16351: const 'SOFTDIST_ADSTATE_NONE','LongWord').SetUInt( $00000000);
16352: const 'SOFTDIST_ADSTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16353: const 'SOFTDIST_ADSTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16354: const 'SOFTDIST_ADSTATE_INSTALLED','LongWord').SetUInt( $00000003);
16355: //PCodeBaseHold', '^TCodeBaseHold // will not work');
16356: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR; '
16357: +'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionLS : DWORD; dwStyle : DWORD; end');
16358: TCodeBaseHold', '_tagCODEBASEHOLD');
16359: CODEBASEHOLD', '_tagCODEBASEHOLD');
16360: //PSoftDistInfo', '^TSoftDistInfo // will not work');
16361: _tagSOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd'
16362: +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI'
16363: +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16364: +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve'
16365: +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16366: TSoftDistInfo', '_tagSOFTDISTINFO');
16367: SOFTDISTINFO', '_tagSOFTDISTINFO');
16368: SIRegister_ISoftDistExt(CL);
16369: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo ) : HResult';
16370: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult';
16371: SIRegister_IDataFilter(CL);
16372: // PProtocolFilterData', '^TProtocolFilterData // will not work');
16373: _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : '
16374: +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil'
16375: +'terFlags : DWORD; end');
16376: TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16377: PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16378: //PDataInfo', '^TDataInfo // will not work');
16379: _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL'
16380: +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16381: TDataInfo', '_tagDATAINFO');
16382: DATAINFO', '_tagDATAINFO');
16383: SIRegister_IEncodingFilterFactory(CL);
16384: Function IsLoggingEnabled( pszUrl : PChar ) : BOOL';
16385: //Function IsLoggingEnabledA( pszUrl : PAnsiChar ) : BOOL';
16386: //Function IsLoggingEnabledW( pszUrl : PWideChar ) : BOOL';
16387: //PHitLoggingInfo', '^THitLoggingInfo // will not work');
16388: _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU'
16389: +'rlName : LPSTR; StartTime : TSystemTime; EndTime : TSystemTime; lpszExtendedInfo : LPSTR; end');
16390: THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16391: HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16392: Function WriteHitLogging( const Logginginfo : THitLoggingInfo ) : BOOL';
16393: end;
16394:
16395: procedure SIRegister_DFFUtils(CL: TPPascalCompiler);
16396: begin
16397:   Procedure reformatMemo( const m : TCustomMemo );
16398:   Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer );
16399:   Procedure MoveToTop( memo : TMemo );
16400:   Procedure ScrollToTop( memo : TMemo );
16401:   Function LineNumberClicked( memo : TMemo ) : integer';
16402:   Function MemoClickedLine( memo : TMemo ) : integer';
16403:   Function ClickedMemoLine( memo : TMemo ) : integer';
16404:   Function MemoLineClicked( memo : TMemo ) : integer';
16405:   Function LinePositionClicked( Memo : TMemo ) : integer';
16406:   Function ClickedMemoPosition( memo : TMemo ) : integer';
16407:   Function MemoPositionClicked( memo : TMemo ) : integer');
16408:   Procedure AdjustGridSize( grid : TDrawGrid );
16409:   Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer );
16410:   Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer );
16411:   Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer );
16412:   Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascending : boolean );
16413:   Procedure sortstrDown( var s : string );
16414:   Procedure sortstrUp( var s : string );
16415:   Procedure rotatestrleft( var s : string );
16416:   Function dffstrtofloatdef( s : string; default : extended ) : extended';
16417:   Function deblank( s : string ) : string';
16418:   Function IntToBinaryString( const n : integer; MinLength : integer ) : string';
16419:   Procedure FreeAndClearListBox( C : TListBox );
16420:   Procedure FreeAndClearMemo( C : TMemo );

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16421: Procedure FreeAndClearStringList( C : TStringList);';
16422: Function dffgetfilesize( f : TSearchrec ) : int64';
16423: end;
16424:
16425: procedure SIRegister_MathsLib(CL: TPSPascalCompiler);
16426: begin
16427:   CL.AddTypeS('intset', 'set of byte');
16428:   TPoint64', 'record x : int64; y : int64; end');
16429:   Function GetNextPandigital( size : integer; var Digits : array of integer ) : boolean';
16430:   Function IsPolygonal( T : int64; var rank : array of integer ) : boolean';
16431:   Function GeneratePentagon( n : integer ) : integer';
16432:   Function IsPentagon( p : integer ) : boolean';
16433:   Function isSquare( const N : int64 ) : boolean';
16434:   Function isCube( const N : int64 ) : boolean';
16435:   Function isPalindrome( const n : int64 ) : boolean';
16436:   Function isPalindrome1( const n : int64; var len : integer ) : boolean';
16437:   Function GetEulerPhi( n : int64 ) : int64';
16438:   Function dffIntPower( a, b : int64 ) : int64;';
16439:   Function IntPower1( a : extended; b : int64 ) : extended;';
16440:   Function gcd2( a, b : int64 ) : int64';
16441:   Function GCDMany( A : array of integer ) : integer';
16442:   Function LCMMany( A : array of integer ) : integer';
16443:   Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16444:   Function dffFactorial( n : int64 ) : int64';
16445:   Function digitcount( n : int64 ) : integer';
16446:   Function nextpermute( var a : array of integer ) : boolean';
16447:   Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string';
16448:   Function convertStringToDecimal( s : string; var n : extended ) : Boolean';
16449:   Function IntoBinaryStr( nn : integer ) : string';
16450:   Function StrToAngle( const s : string; var angle : extended ) : boolean';
16451:   Function AngleToStr( angle : extended ) : string';
16452:   Function deg2rad( deg : extended ) : extended';
16453:   Function rad2deg( rad : extended ) : extended');
16454:   Function GetLongToMercProjection( const long : extended ) : extended';
16455:   Function GetLatToMercProjection( const Lat : Extended ) : Extended';
16456:   Function GetMercProjectionToLong( const ProjLong : extended ) : extended';
16457:   Function GetMercProjectionToLat( const ProjLat : extended ) : extended';
16458:   SIRegister_TPrimes(CL);
16459:   //RIRegister_TPrimes(CL);
16460:   //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16461:   CL.AddConstantN('minmark','LongInt').SetInt( 180);
16462:   Function Random64( const N : Int64 ) : Int64;';
16463:   Procedure Randomize64';
16464:   Function Random641 : extended;';
16465:   Procedure GetParents( Variables : string; OpChar : char; var list : TStringlist)//DFFUUtils
16466: end;
16467:
16468: procedure SIRegister_UGeometry(CL: TPSPascalCompiler);
16469: begin
16470:   TrealPoint', 'record x : extended; y : extended; end');
16471:   Tline', 'record pl : TPoint; p2 : TPoint; end');
16472:   TRealLine', 'record pl : TRealPoint; p2 : TRealPoint; end');
16473:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16474:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16475:   PPResult', '( POutSide, PPIInside, PPVertex, PPEdge, PPError )');
16476:   Function realpoint( x, y : extended ) : TRealPoint';
16477:   Function dist( const pl, p2 : TrealPoint ) : extended';
16478:   Function intdist( const pl, p2 : TPoint ) : integer';
16479:   Function dffLine( const pl, p2 : TPoint ) : Tline;';
16480:   Function Line1( const pl, p2 : TRealPoint ) : TRealLine';
16481:   Function dffCircle( const cx, cy, R : integer ) : TCircle';
16482:   Function Circle1( const cx, cy, R : extended ) : TRealCircle';
16483:   Function GetTheta( const L : TLine ) : extended';
16484:   Function GetTheta1( const pl, p2 : TPoint ) : extended';
16485:   Function GetTheta2( const pl, p2 : TRealPoint ) : extended';
16486:   Procedure Extendline( var L : TLine; dist : integer );
16487:   Procedure Extendline1( var L : TRealLine; dist : extended );
16488:   Function Linesintersect( line1, line2 : TLine ) : boolean';
16489:   Function ExtendedLinesIntersect( Line1, Line2:TLine; const extendlines:bool; var IP:TPoint ):bool;
16490:   Function ExtendedLinesIntersect1(const Line1, Line2:TLine; const extendlines:bool; var IP:TRealPoint ):bool;
16491:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean';
16492:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine';
16493:   Function PerpDistance( L : TLine; P : TPoint ) : Integer';
16494:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine';
16495:   Function AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16496:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult';
16497:   Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var Clockwise:boolean):integer;
16498:   Procedure InflatePolygon(const points:array of Tpoint; var points2:array of TPoint;var area:integer; const screenCoordinates : boolean; const inflateby : integer');
16499:   Function PolyBuiltClockwise(const points:array of TPoint;const screencoordinates:boolean):bool;
16500:   Function DegtoRad( d : extended ) : extended';
16501:   Function RadtoDeg( r : extended ) : extended';
16502:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint );
16503:   Procedure TranslateLeftTol( var L : TrealLine; newend : TrealPoint );
16504:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16505:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16506:   Procedure RotateRightEndTol( var pl, p2 : Trealpoint; alpha : extended );

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16507: Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, IP2 : TPoint ) : boolean;');
16508: Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, IP2 : TRealPoint ) : boolean;');
16509: Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine) : boolean');
16510: Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,TL1,TL2:TLine):Bool;
16511: end;
16512:
16513:
16514: procedure SIRegister_UAstronomy(CL: TPSPascalCompiler);
16515: begin
16516:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat )');
16517:   TDType', '( ttLocal, ttUT, ttGST, ttLST )');
16518:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16519:   TSunrec', 'record TrueEclLon:extended;
16520:     AppEclLon:extended;AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
16521:     TrueAzAl:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRpoint;SunMeanAnomaly:extended;end;
16522:     TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl :'
16523:       +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE';
16524:       +'arth : extended; Phase : extended; end');
16525:   TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16526:     +'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDateTime; end');
16527:   TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16528:     +'ct : TDatetime; LastContact : TDateTime; Magnitude:Extended;MaxEclipseUTime:TDateTime;end');
16529:   TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16530:   TPlanetRec', 'record AsOf : TDateTime; Name : string; MeanLon :'
16531:     +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16532:     +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16533:     +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16534:   TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRpoint; RadiusVector :'
16535:     extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRpoint; CorrectedEarthDistance:extended;
16536:     ApparentRaDecl:TRPoint; end');
16537:   SIRegister_TAstronomy(CL);
16538:   Function AngleToStr( angle : extended ) : string');
16539:   Function StrToAngle( s : string; var angle : extended ) : boolean');
16540:   Function HoursToStr24( t : extended ) : string');
16541:   Function RPoint( x, y : extended ) : TRPoint );
16542:   Function getStimenename( t : TDType ) : string');
16543: end;
16544: procedure SIRegister_UCardComponentV2(CL: TPSPascalCompiler);
16545: begin
16546:   TCardValue', 'Integer');
16547:   TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16548:   TShortSuit', '( cardS, cardD, cardC, cardH )');
16549:   Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16550:   SIRegister_TCard(CL);
16551:   SIRegister_TDeck(CL);
16552: end;
16553: procedure SIRegister_UTGraphSearch(CL: TPSPascalCompiler);
16554: begin
16555:   tMethodCall', 'Procedure');
16556:   tVerboseCall', 'Procedure ( s : string)');
16557:   // PTEdge', '^TEdge // will not work');
16558:   TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer; '
16559:     +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16560:   SIRegister_TNode(CL);
16561:   SIRegister_TGraphList(CL);
16562: end;
16563: procedure SIRegister_UParser10(CL: TPSPascalCompiler);
16564: begin
16565:   ParserFloat', 'extended');
16566:   //PParserFloat', '^ParserFloat // will not work');
16567:   TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod'
16568:     +'ulo, IntDiv, IntDIVZ, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar )');
16569:   //POperation', '^Operation // will not work');
16570:   TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16571:     +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure'
16572:     +'; Token : TDFFToken; end');
16573:   TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16574:   (CL.FindClass('TOBJECT'),'EMathParserError');
16575:   CL.FindClass('TOBJECT','ESyntaxError');
16576:   (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16577:   (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16578:   (CL.FindClass('TOBJECT'),'ETooManyNestings');
16579:   (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16580:   (CL.FindClass('TOBJECT'),'EBadName');
16581:   ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16582:   SIRegister_TCustomParser(CL);
16583:   SIRegister_TExParser(CL);
16584: end;
16585:
16586:   function isService: boolean;
16587:   begin
16588:     result:= NOT(Application is TApplication);
16589:     {result:= Application is TServiceApplication;}
16590:   end;
16591:   function isApplication: boolean;

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16592: begin
16593:   result:= Application is TApplication;
16594: end;
16595: //SM_REMOTESESSION = $1000
16596: function isTerminalSession: boolean;
16597: begin
16598:   result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16599: end;
16600:
16601: procedure SIRegister_cyIEUtils(CL: TPSPascalCompiler);
16602: begin
16603:   CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16604:   +'String; margin_bottom : String; margin_left : String; margin_right : String'
16605:   +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16606:   Function cyURLEncode( const S : string ) : string';
16607:   Function MakeResourceURL(const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16608:   Function MakeResourceURL1(const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;
16609:   Function cyColorToHtml( aColor : TColor ) : String';
16610:   Function HtmlToColor( aHtmlColor : String ) : TColor';
16611:   //Function GetStreamEncoding( aStream : TStream ) : TEncoding';
16612:   // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean';
16613:   Function AddHtmlUnicodePrefix( aHtml : String ) : String';
16614:   Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16615:   Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16616:   Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16617:   CL.AddConstantN('IEBodyBorderless','String').SetString( 'none' );
16618:   CL.AddConstantN('IEBodySingleBorder','String').SetString( '' );
16619:   CL.AddConstantN('IEDesignModeOn','String').SetString( 'On' );
16620:   CL.AddConstantN('IEDesignModeOff','String').SetString( 'Off' );
16621:   CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16622:   CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16623: end;
16624:
16625:
16626: procedure SIRegister_UcomboV2(CL: TPSPascalCompiler);
16627: begin
16628:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16629:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16630:   +'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'
16631:   +'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16632:   +'inationsRepeat, CombinationsRepeatDown )');
16633:   CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16634:   SIRegister_TComboSet(CL);
16635: end;
16636:
16637: procedure SIRegister_cyBaseComm(CL: TPSPascalCompiler);
16638: begin
16639:   TcyCommandType', '( ctDeveloperDefined, ctUserDefined )';
16640:   TStreamContentType', '( scDeveloperDefined, scUserDefined, scString )';
16641:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16642:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16643:   +'mmHandle : THandle; aString : String; userParam : Integer )';
16644:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16645:   +'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16646:   SIRegister_TcyBaseComm(CL);
16647:   CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16648:   CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16649:   Function ValidateFileMappingName( aName : String ) : String';
16650:   procedure makeCaption(leftSide, Rightside:string; form:TForm);
16651: end;
16652:
16653: procedure SIRegister_cyDERUtils(CL: TPSPascalCompiler);
16654: begin
16655:   CL.AddTypeS('DERString', 'String');
16656:   CL.AddTypeS('DERChar', 'Char');
16657:   CL.AddTypeS('TEElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16658:   +'eger, etFloat, etPercentage, etWebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16659:   CL.AddTypeS('TEElementsTypes', 'set of TEElementsType');
16660:   CL.AddTypeS('DERNString', 'String');
16661:   const DERDecimalSeparator', 'String').SetString( '.' );
16662:   const DERDefaultChars', 'String')('`@/%-'
16663:   _.'0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ');
16664:   const DERDefaultChars', 'String').SetString( '/%-0123456789abcdefghijklmnopqrstuvwxyz' );
16665:   CL.AddDelphiFunction('Function isValidWebSiteChar( aChar : Char ) : Boolean');
16666:   Function isValidWebSite( aStr : String ) : Boolean';
16667:   Function isValidWebMail( aStr : String ) : Boolean';
16668:   Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16669:   Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16670:   Function IsDERChar( aChar : Char ) : Boolean';
16671:   Function IsDERDefaultChar( aChar : Char ) : Boolean';
16672:   Function IsDERMoneyChar( aChar : Char ) : Boolean';
16673:   Function IsDERExceptionChar( aChar : Char ) : Boolean';
16674:   Function IsDERSymbols( aDERString : String ) : Boolean';
16675:   Function StringToDERCharSet( aStr : String ) : DERString';
16676:   Function IsDERNDefaultChar( aChar : Char ) : Boolean';
16677:   Function IsDERNChar( aChar : Char ) : Boolean';
16678:   Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16679:   Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String');

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16680: Function DERExtractWebMail( aDERStr : DERString ) : String');
16681: Function DERExtractPhoneNr( aDERStr : DERString ) : String');
16682: Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16683: Function DERExecute(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16684: Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
aElementsType : TElementsType) : String');
16685: Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
Boolean; var RsltDERStr : DERString; var RsltElementType : TElementsType);');
16686: end;
16687:
16688: procedure SIRegister_cyImage(CL: TPPSPascalCompiler);
16689: begin
16690:   pRGBQuadArray', '^TRGBQuadArray // will not work');
16691:   Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer');
16692:   Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16693:   Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16694:   Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16695:   Procedure BitmapSetPixelsContrast( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16696:   Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean)');
16697:   Procedure BitmapModifyRGB(Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool);
16698:   Procedure BitmapReplaceColor(Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean);');
16699:   Procedure BitmapReplaceColor1(Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor : Boolean;RefreshBmp:Bool');');
16700:   Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean);');
16701:   Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean)');
16702:   Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor)');
16703:   Procedure BitmapBlur(SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool);
16704:   Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16705:   Procedure GraphicMirror1(Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean);');
16706:   Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16707:   Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word);');
16708:   Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String);');
16709: end;
16710:
16711: procedure SIRegister_WaveUtils(CL: TPPSPascalCompiler);
16712: begin
16713:   TMS2StrFormat', '( msHMSh, msHMS, msMSh, msMS, msSh, msS, msAh,msA )');
16714:   TPCMChannel', '( cMono, cStereo )');
16715:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16716:   TPCMBitsPerSample', '( bs8Bit, bs16Bit )');
16717:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono1';
16718:   +'6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b';
16719:   +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b';
16720:   +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b';
16721:   +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b';
16722:   +'it48000Hz, Stereo16bit48000Hz )');
16723: PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; '
16724:   +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word;  ecbSiz: Word; end');
16725: tWaveFormatEx', 'PWaveFormatEx');
16726: HMMIO', 'Integer');
16727: TWaveDeviceFormats', 'set of TPCMFormat');
16728: TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds'
16729:   +'PlaybackRate, dsPosition, dsAsynchronize, dsDirectSound )');
16730: CL.AddTypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16731: TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16732: TWaveOutOptions', 'set of TWaveOutOption');
16733: TStreamOwnership2', '( soReference, soOwned )');
16734: TWaveStreamState', '( wssReady, wssReading, wssWriting, wssWritingEx )');
16735: // PRawWave', '^TRawWave // will not work');
16736: TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16737: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16738: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16739: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16740: TWaveAudioEvent', 'Procedure ( Sender : TObject)');
16741: TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var pW'
16742:   +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16743: TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf'
16744:   +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD) : DWORD');
16745: TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu'
16746:   +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean) : DWORD');
16747: TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const '
16748:   +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean)');
16749: TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer)');
16750: TWaveAudioFilterEvent', 'Procedure ( Sender : TObject; const Buffer:TObject; BufferSize:DWORD)');
16751: GetWaveAudioInfo(mmIO:HMMIO;var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16752: CreateWaveAudio(mmIO: HMMIO; const pWaveFormat:PWaveFormatEx;var ckRIFF,ckData:TMMCKInfo):Bool;
16753: CloseWaveAudio( mmIO : HMMIO; var ckRIFF, ckData : TMMCKInfo)');
16754: GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16755: CreateStreamWaveAudio(Stream: TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,ckData:TMMCKInfo):HMMIO;
16756: OpenStreamWaveAudio( Stream : TStream ) : HMMIO');
16757: CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD) : DWORD');
16758: GetAudioFormat( FormatTag : Word ) : String');
16759: GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx ) : String');

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16760: GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD ) : DWORD';
16761: GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx ) : DWORD';
16762: GetWaveAudioPeakLevel( const Data : TObject; DataSize:DWORD; const pWaveFormat:PWaveFormatEx): Integer';
16763: InvertWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx): Boolean';
16764: SilenceWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx): Boolean';
16765: ChangeWaveAudioVolume( const Data:TObject;DataSize:DWORD;const pWaveFormat:PWaveFormatEx;Percent:Int):Bool;
16766: MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer :
TObject; BufferSize : DWORD ) : Boolean';
16767: ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const
dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD ) : Boolean';
16768: SetPCMFormat( const pWaveFormat : PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec :
TPCMSamplesPerSec; BitsPerSample : TPCMBytesPerSample )';
16769: Procedure SetPCMFormatS( const pWaveFormat : PWaveFormatEx; PCMFormat : TPCMFormat )';
16770: GetPCMFormat( const pWaveFormat : PWaveFormatEx ) : TPCMFormat';
16771: GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD ) : DWORD';
16772: MS2str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String';
16773: WaitForSyncObject( SyncObject : THandle; Timeout : DWORD ) : DWORD';
16774: //mmioStreamProc( lpmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD ) : LRESULT';
16775: end;
16776:
16777: procedure SIRegister_NamedPipes(CL: TPSPascalCompiler);
16778: begin
16779:   'DEFAULT_PIPE_BUFFER_SIZE','LongInt').SetInt( 4096 );
16780:   CL.AddConstantN('DEFAULT_PIPE_TIMEOUT','LongInt').SetInt( 5000 );
16781:   'PIPE_NAMING_SCHEME','String').SetString( '\\%s\pipe\%s' );
16782:   'WAIT_ERROR','LongWord').SetUInt( DWORD ( $FFFFFF ) );
16783:   'WAIT_OBJECT_1','LongInt').SetInt( WAIT_OBJECT_0 + 1 );
16784:   'STATUS_SUCCESS','LongWord').SetUInt( $00000000 );
16785:   'STATUS_BUFFER_OVERFLOW','LongWord').SetUInt( $80000005 );
16786:   CL.AddTypeS('TPipeDirection', '( pdir_Duplex, pdir_ClientToServer, pdir_ServerToClient )');
16787:   CL.AddTypeS('TPipeType', '( ptyp_BytByte, ptyp_MsgByte, ptyp_MsgMsg )');
16788:   CL.AddTypeS('TOverlappedResult', '( ov_Failed, ov_Pending, ov_MoreData, ov_Complete )');
16789:   SIRegister_TNamedPipe(CL);
16790:   SIRegister_TSserverPipe(CL);
16791:   SIRegister_TClientPipe(CL);
16792:   CL.AddDelphiFunction('Function CalculateTimeout( aBasis : DWORD ) : DWORD');
16793:   Function HasOverlappedIoCompleted( const ov : OVERLAPPED ) : Boolean';
16794:   Function GetOverlappedPipeResult(aHandle:THandle;const ov:OVERLAPPED;var dwBytes:DWORD;bWait:Boolean) :
OverlappedResult;
16795:   Function GetStreamAsText( stm : TStream ) : string';
16796:   Procedure SetStreamAsText( const aTxt : string; stm : TStream )';
16797: end;
16798:
16799: procedure SIRegister_DPUtils(CL: TPSPascalCompiler);
16800: begin
16801:   // CL.AddTypeS('pRGBTripleArray', '^TRGBTripleArray // will not work');
16802:   SIRegister_TThumbData(CL);
16803:   'PIC_BMP','LongInt').SetInt( 0 );
16804:   'PIC_JPG','LongInt').SetInt( 1 );
16805:   'THUMB_WIDTH','LongInt').SetInt( 60 );
16806:   'THUMB_HEIGHT','LongInt').SetInt( 60 );
16807:   Function IsEqualFile(Filename:string; Size:Integer; LastWriteTime : TDateTime): Boolean';
16808:   Procedure GetFileInfo(Filename : string; var Size : Integer; var LastWriteTime : TDateTime)';
16809:   Function ReadBitmap( Filehandle : Integer; Width, Height : Integer ) : TBitmap';
16810:   Procedure WriteBitmap( Filehandle : Integer; bmp : TBitmap )';
16811:   Function OpenPicture( fn : string; var tp : Integer ) : Integer';
16812:   Function ConvertPicture( pi : Integer; tp : Integer ) : TBitmap';
16813:   Function LoadPicture( fn : string; var w, h : Integer ) : TBitmap';
16814:   Function TurnBitmap( bmp : TBitmap; ang : Integer ) : TBitmap';
16815:   Function RotateBitmap( Bitmap : TBitmap; Direction : Integer ) : TBitmap';
16816:   Function StretchBitmap( Canvas : TCanvas; re : TRect; bmp : TBitmap ) : TRect';
16817:   Function ThumbBitmap( Bitmap : TBitmap; Width, Height : Integer ) : TBitmap';
16818:   Procedure ClearFrame( Canvas : TCanvas; Rect : TRect; Width, Height : Integer )';
16819:   Procedure FindFiles( path, mask : string; items : TStringList )';
16820:   Function LetFileName( s : string ) : string';
16821:   Function LetParentPath( path : string ) : string';
16822:   Function AddBackSlash( path : string ) : string';
16823:   Function CutBackSlash( path : string ) : string';
16824: end;
16825:
16826: procedure SIRegister_CommonTools(CL: TPSPascalCompiler);
16827: begin
16828:   //BYTES','LongInt').SetInt( 1 );
16829:   'KBYTES ','LongInt').SetInt( 1024 );
16830:   'DBG_ALIVE','LongWord').SetUInt( Integer ( $11BABE11 ) );
16831:   'DBG_DESTROYING','LongWord').SetUInt( Integer ( $44FADE44 ) );
16832:   'DBG_GONE','LongWord').SetUInt( $99AC1D99 );
16833:   'SHELL_NS_MYCOMPUTER','String').SetString( ':::{20D04FE0-3AEA-1069-A2D8-08002B30309D}' );
16834:   SIRegister_MakeComServerMethodsPublic(CL);
16835:   CL.AddTypeS('TSomeFileInfo', '( fi_DisplayType, fi_Application )');
16836:   Function IsFlagSet( dwTestForFlag, dwFlagSet : DWORD ) : Boolean';
16837:   Procedure TBSetFlag( const dwThisFlag : DWORD; var dwFlagSet : DWORD; aSet : Boolean )';
16838:   Function TBGetTempFolder : string';
16839:   Function TBGetTempFile : string';
16840:   Function TBGetModuleFilename : string';
16841:   Function FormatModuleVersionInfo( const aFilename : string ) : string';
16842:   Function GetVersionInfoString( const aFile, aEntry : string; aLang : WORD ) : string';
16843:   Function TBGetFileSize( aFile : string; aMultipleOf : Integer ) : Integer';
16844:   Function FormatAttribString( aAttr : Integer ) : string';

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16845: Function GetSomeFileInfo( aFile : string; aWhatInfo : TSomeFileInfo ) : string');
16846: Function ShellRecycle( aWnd : HWND; aFileOrFolder : string ) : Boolean');
16847: Function IsDebuggerPresent : BOOL');
16848: Function TBNNotImplemented : HRESULT');
16849: end;
16850;
16851: procedure SIRegister_D2_VistaHelperU(CL: TPSPascalCompiler);
16852: begin
16853: //CL.AddTypeS('OSVERSIONINFOEXA', '_OSVERSIONINFOEXA');
16854: //CL.AddTypeS('TOSVersionInfoExA', '_OSVERSIONINFOEXA');
16855: CL.AddTypeS('TOSVersionInfoEx', 'TOSVersionInfo');
16856: CL.AddTypeS('TDrivesProperty', 'array[1..26] of boolean');
16857: //TDrivesProperty = array['A'..'Z'] of boolean;
16858: Function TBSetSystemTime( DateTime : TDateTime; DOW : word ) : boolean');
16859: Function IsElevated : Boolean');
16860: Procedure CoCreateInstanceAsAdmin(aHWnd:HWND;const aClassID:GUID;const aIID:GUID;out aObj:TObject);
16861: CL.AddTypeS('TPasswordUsage', '( pu_None, pu_Default, pu_Defined )');
16862: Function TrimNetResource( UNC : string ) : string );
16863: Procedure GetFreeDrives( var FreeDrives : TDrivesProperty)');
16864: Procedure GetMappedDrives( var MappedDrives : TDrivesProperty)');
16865: Function MapDrive( UNCPPath : string; Drive: char; PasswordUsage : TPasswordUsage; Password : string;
UserUsage : TPasswordUsage; User : string; Comment : string ) : boolean');
16866: Function UnmapDrive( Drive : char; Force : boolean ) : boolean');
16867: Function TBIWindowsVista : Boolean');
16868: Procedure SetVistaFonts( const AForm : TForm );
16869: Procedure SetVistaContentFonts( const AFont : TFont );
16870: Function GetProductType( var sType : String ) : Boolean');
16871: Function lstrcmp( lpString1, lpString2 : PChar ) : Integer');
16872: Function lstrcmpi( lpString1, lpString2 : PChar ) : Integer');
16873: Function lstrcpyn( lpString1, lpString2 : PChar; iMaxLength : Integer ) : PChar');
16874: Function lstrcpy( lpString1, lpString2 : PChar ) : PChar');
16875: Function lstrcat( lpString1, lpString2 : PChar ) : PChar');
16876: Function lstrlen( lpString : PChar ) : Integer');
16877: Function GetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD; var ReturnLength : DWORD ) : BOOL');
16878: Function SetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD ) : BOOL');
16879: end;
16880;
16881: procedure SIRegister_dwsXPlatform(CL: TPSPascalCompiler);
16882: begin
16883: 'cLineTerminator', 'Char').SetString( #10);
16884: 'clineTerminators', 'String').SetString( #13#10);
16885: 'INVALID_HANDLE_VALUE', 'LongInt').SetInt( DWORD ( - 1 ) );
16886: SIRegister_TFixedCriticalSection(CL);
16887: SIRegister_TMultiReadSingleWrite(CL);
16888: CL.AddDelphiFunction('Procedure SetDecimalSeparator( c : Char)');
16889: Function GetDecimalSeparator : Char');
16890: TCollectFileProgressEvent', 'Procedure ( const directory : String; var skipScan : Boolean)');
16891: Procedure Collectfiles(const directory,fileMask:UnicodeString; list:TStrings;
recurseSubdirectories:Boolean; onProgress : TCollectFileProgressEvent)');
16892: CL.AddTypeS('NativeInt', 'Integer');
16893: //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16894: CL.AddTypeS('NativeUInt', 'Cardinal');
16895: //CL.AddTypeS('PNativeUInt', '^NativeUInt // will not work');
16896: //CL.AddTypeS('TBytes', 'array of Byte');
16897: CL.AddTypeS('RawByteString', 'UnicodeString');
16898: //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16899: //CL.AddTypeS('PUInt64', '^UInt64 // will not work');
16900: SIRegister_TPath(CL);
16901: SIRegister_TFile(CL);
16902: SIRegister_TdwsThread(CL);
16903: Function GetSystemMilliseconds : Int64');
16904: Function UTCDateTime : TDateTime');
16905: Function UnicodeFormat( const fmt:UnicodeString; const args : array of const): UnicodeString');
16906: Function UnicodeCompareStr( const S1, S2 : UnicodeString ) : Integer');
16907: Function dwsAnsiCompareText( const S1, S2 : UnicodeString ) : Integer');
16908: Function dwsAnsiCompareStr( const S1, S2 : UnicodeString ) : Integer');
16909: Function UnicodeComparePChars( p1 : PChar; n1 : Integer; p2 : PChar; n2 : Integer ) : Integer');
16910: Function UnicodeComparePchars1( p1, p2 : PChar; n : Integer ) : Integer');
16911: Function UnicodeLowerCase( const s : UnicodeString ) : UnicodeString');
16912: Function UnicodeUpperCase( const s : UnicodeString ) : UnicodeString');
16913: Function ASCIICompareText( const s1, s2 : UnicodeString ) : Integer');
16914: Function ASCIISameText( const s1, s2 : UnicodeString ) : Boolean');
16915: Function InterlockedIncrement( var val : Integer ) : Integer');
16916: Function InterlockedDecrement( var val : Integer ) : Integer');
16917: Procedure FastInterlockedIncrement( var val : Integer ) );
16918: Procedure FastInterlockedDecrement( var val : Integer ) );
16919: Function InterlockedExchangePointer( var target : __Pointer; val : __Pointer ) : __Pointer');
16920: Procedure SetThreadName( const threadName : Char; threadID : Cardinal );
16921: Procedure dwsOutputDebugString( const msg : UnicodeString );
16922: Procedure WriteToOSEventLog( const logName,logCaption,logDetails:UnicodeString;const logRawData:Str );
16923: Function TryTextToFloat(const s:PChar;var value:Extended;const formatSettings:TFormatSettings):Bool;
16924: Procedure VarCopy( out dest : Variant; const src : Variant );
16925: Function VarToUnicodeStr( const v : Variant ) : UnicodeString );
16926: Function LoadTextFromBuffer( const buf : TBytes ) : UnicodeString );
16927: Function LoadTextFromStream( aStream : TStream ) : UnicodeString );
16928: Function LoadTextFromFile( const fileName : UnicodeString ) : UnicodeString );
16929: Procedure SaveTextToUTF8File( const fileName, text : UnicodeString );

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16930: Function OpenFileForSequentialReadOnly( const fileName : UnicodeString ) : THandle';
16931: Function OpenFileForSequentialWriteOnly( const fileName : UnicodeString ) : THandle';
16932: Procedure CloseFileHandle( hFile : THandle );
16933: Function FileCopy( const existing, new : UnicodeString; failIfExists : Boolean ) : Boolean';
16934: Function FileMove( const existing, new : UnicodeString ) : Boolean';
16935: Function dwsfileDelete( const fileName : String ) : Boolean';
16936: Function FileRename( const oldName, newName : String ) : Boolean';
16937: Function dwsfileSize( const name : String ) : Int64';
16938: Function dwsfileDateTime( const name : String ) : TDateTime';
16939: Function DirectSet8087CW( newValue : Word ) : Word';
16940: Function DirectSetMXCSR( newValue : Word ) : Word';
16941: Function TtoObject( const T: byte ) : TObject';
16942: Function TtoPointer( const T: byte ) : __Pointer';
16943: Procedure GetMemForT( var T: byte; Size : integer );
16944: Function FindDelimiter( const Delimiters, S : string; StartIdx : Integer ) : Integer';
16945: end;
16946:
16947: procedure SIRegister_AdSocket(CL: TPSPascalCompiler);
16948: begin
16949:   'IPStrSize','LongInt').SetInt( 15 );
16950:   'CM_APDSOCKETMESSAGE','LongWord').SetUInt( WM_USER + $0711 );
16951:   'CM_APDSOCKETQUIT','LongWord').SetUInt( WM_USER + $0712 );
16952:   'ADWSBASE','LongInt').SetInt( 9000 );
16953:   CL.AddTypeS('TCMAPDSocketMessage', 'record Msg : Cardinal; Socket : TSocket; '
16954:     +'SelectEvent : Word; SelectError : Word; Result : Longint; end');
16955:   SIRegister_EApdSocketException(CL);
16956:   TWsMode', '( wsClient, wsServer )');
16957:   TWsNotifyEvent', 'Procedure ( Sender : TObject; Socket : TSocket )';
16958:   TWsSocketErrorEvent', 'Procedure ( Sender : TObject; Socket : TSocket; ErrCode : Integer )');
16959:   SIRegister_TApdSocket(CL);
16960: end;
16961:
16962: procedure SIRegister_AdPort(CL: TPSPascalCompiler);
16963: begin
16964:   SIRegister_TApdCustomComPort(CL);
16965:   SIRegister_TApdComPort(CL);
16966:   Function ComName( const ComNumber : Word ) : ShortString';
16967:   Function SearchComPort( const C : TComponent ) : TApdCustomComPort';
16968: end;
16969:
16970: procedure SIRegister_PathFunc(CL: TPSPascalCompiler);
16971: begin
16972:   Function inAddBackslash( const S : String ) : String';
16973:   Function PathChangeExt( const Filename, Extension : String ) : String';
16974:   Function PathCharCompare( const S1, S2 : PChar ) : Boolean';
16975:   Function PathCharIsSlash( const C : Char ) : Boolean';
16976:   Function PathCharIsTrailByte( const S : String; const Index : Integer ) : Boolean';
16977:   Function PathCharLength( const S : String; const Index : Integer ) : Integer';
16978:   Function inPathCombine( const Dir, Filename : String ) : String';
16979:   Function PathCompare( const S1, S2 : String ) : Integer';
16980:   Function PathDrivePartLength( const Filename : String ) : Integer';
16981:   Function PathDrivePartLengthEx( const Filename:String;const IncludeSignificantSlash:Bool ):Int;
16982:   Function inPathExpand( const Filename : String ) : String';
16983:   Function PathExtensionPos( const Filename : String ) : Integer';
16984:   Function PathExtractDir( const Filename : String ) : String';
16985:   Function PathExtractDrive( const Filename : String ) : String';
16986:   Function PathExtractExt( const Filename : String ) : String';
16987:   Function PathExtractName( const Filename : String ) : String';
16988:   Function PathExtractPath( const Filename : String ) : String';
16989:   Function PathIsRooted( const Filename : String ) : Boolean';
16990:   Function PathLastChar( const S : String ) : PChar';
16991:   Function PathLastDelimiter( const Delimiters, S : string ) : Integer';
16992:   Function PathLowercase( const S : String ) : String';
16993:   Function PathNormalizeSlashes( const S : String ) : String';
16994:   Function PathPathPartLength( const Filename:String;const IncludeSlashesAfterPath:Bool ):Int;
16995:   Function PathPos( Ch : Char; const S : String ) : Integer';
16996:   Function PathStartsWith( const S, AStartsWith : String ) : Boolean';
16997:   Function PathStrNextChar( const S : PChar ) : PChar';
16998:   Function PathStrPrevChar( const Start, Current : PChar ) : PChar';
16999:   Function PathStrScan( const S : PChar; const C : Char ) : PChar';
17000:   Function inRemoveBackslash( const S : String ) : String';
17001:   Function RemoveBackslashUnlessRoot( const S : String ) : String';
17002:   Procedure PathFuncRunTests( const AlsoTestJapaneseDBCS : Boolean );
17003: end;
17004:
17005:
17006: procedure SIRegister_CmnFunc2(CL: TPSPascalCompiler);
17007: begin
17008:   NEWREGSTR_PATH_SETUP','String').SetString( 'Software\Microsoft\Windows\CurrentVersion' );
17009:   NEWREGSTR_PATH_EXPLORER','String').SetString( NEWREGSTR_PATH_SETUP + '\Explorer' );
17010:   NEWREGSTR_PATH_SPECIAL_FOLDERS','String').SetString(NEWREGSTR_PATH_EXPLORER + '\Shell Folders' );
17011:   NEWREGSTR_PATH_UNINSTALL','String').SetString( NEWREGSTR_PATH_SETUP + '\Uninstall' );
17012:   NEWREGSTR_VAL_UNINSTALLER_DISPLAYNAME','String').SetString( 'DisplayName' );
17013:   NEWREGSTR_VAL_UNINSTALLER_COMMANDLINE','String').SetString( 'UninstallString' );
17014:   KEY_WOW64_64KEY','LongWord').SetUInt( $0100 );
17015:   //CL.AddTypeS('TLeadByteSet', '^TLeadByteSet // will not work');
17016:   CL.AddTypeS('TLeadByteSet', 'set of Char');
17017:   SIRegister_TOneShotTimer(CL);
17018:   CL.AddTypeS('TRegView', '( rvDefault, rv32Bit, rv64Bit )');

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17019: 'RegViews64Bit','LongInt').Value.ts32 := ord(rv64Bit);
17020: Function NewFileExists( const Name : String ) : Boolean';
17021: Function inDirExists( const Name : String ) : Boolean';
17022: Function FileOrDirExists( const Name : String ) : Boolean';
17023: Function IsDirectoryAndNotReparsePoint( const Name : String ) : Boolean';
17024: Function GetIniString( const Section, Key : String; Default:String; const Filename:String): String';
17025: Function GetIniInt(const Section,Key:String;const Default,Min,Max:Longint;const Filenam:String):Longint;
17026: Function GetIniBool( const Section,Key:String; const Default:Boolean;const Filename:String): Boolean';
17027: Function IniKeyExists( const Section, Key, Filename : String ) : Boolean';
17028: Function IsIniSectionEmpty( const Section, Filename : String ) : Boolean';
17029: Function SetIniString( const Section, Key, Value, Filename : String ) : Boolean';
17030: Function SetIniInt(const Section,Key:String;const Value: Longint;const Filename: String):Boolean';
17031: Function SetIniBool(const Section,Key:String;const Value: Boolean;const Filename: String):Boolean';
17032: Procedure DeleteIniEntry( const Section, Key, Filename : String );
17033: Procedure DeleteIniSection( const Section, Filename : String );
17034: Function GetEnv( const EnvVar : String ) : String';
17035: Function GetCmdTail : String';
17036: Function GetCmdTailEx( StartIndex : Integer ) : String';
17037: Function NewParamCount : Integer';
17038: Function NewParamStr( Index : Integer ) : string';
17039: Function AddQuotes( const S : String ) : String';
17040: Function RemoveQuotes( const S : String ) : String';
17041: Function inGetShortName( const LongName : String ) : String';
17042: Function inGetWinDir : String';
17043: Function inGetSystemDir : String';
17044: Function GetSysWow64Dir : String';
17045: Function GetSysNativeDir( const IsWin64 : Boolean ) : String';
17046: Function inGetTempDir : String';
17047: Function StringChange( var S : String; const FromStr,ToStr : String ) : Integer';
17048: Function StringChangeEx(var S:String;const FromStr,ToStr:String;const SupportDBCS:Bool):Int;
17049: Function AdjustLength( var S : String; const Res : Cardinal ) : Boolean';
17050: Function UsingWinNT : Boolean';
17051: Function ConvertConstPercentStr( var S : String ) : Boolean';
17052: Function ConvertPercentStr( var S : String ) : Boolean';
17053: Function ConstPos( const Ch : Char; const S : String ) : Integer';
17054: Function SkipPastConst( const S : String; const Start : Integer ) : Integer';
17055: Function RegQueryStringValue( H : HKEY; Name : PChar; var ResultStr : String ) : Boolean';
17056: Function RegQueryMultiStringValue( H : HKEY; Name : PChar; var ResultStr : String ):Boolean;
17057: Function RegValueExists( H : HKEY; Name : PChar ) : Boolean';
17058: Function RegCreateKeyExView(const RegView:TRegView;hKey:HKEY;lpSubKey:PChar;Reserved:DWORD;lpClass:PChar;
dwOptions:DWORD;samDesired:REGSAM;lpSecurityAttributes:TObject;var
phkResult:HKEY;lpdwDisposition:DWORD):Longint;
17059: Function RegOpenKeyExView(const
RegView:TRegView;hKey:HKEY;lpSubKey:PChar;ulOptions:DWORD;samDesired:REGSAM;var phkResult:HKEY):Longint;
17060: Function RegDeleteKeyView( const RegView : TRegView; const Key : HKEY; const Name : PChar ) : Longint;
17061: Function RegDeleteKeyIncludingSubkeys(const RegView:TRegView;const Key:HKEY;const Name:PChar):Longint;
17062: Function RegDeleteKeyIfEmpty(const RegView:TRegView;const RootKey:HKEY;const SubkeyName:PChar):Longint;
17063: Function GetShellFolderPath( const FolderID : Integer ) : String';
17064: Function IsAdminLoggedOn : Boolean';
17065: Function IsPowerUserLoggedOn : Boolean';
17066: Function IsMultiByteString( const S : AnsiString ) : Boolean';
17067: Function FontExists( const FaceName : String ) : Boolean';
17068: //Procedure FreeAndNil( var Obj );
17069: Function SafeLoadLibrary( const Filename : String; ErrorMode : UINT ) : HMODULE';
17070: Function GetUILanguage : LANGID';
17071: Function RemoveAccelChar( const S : String ) : String';
17072: Function GetTextWidth(const DC : HDC; S : String; const Prefix:Boolean):Integer';
17073: Function AddPeriod( const S : String ) : String';
17074: Function GetExceptMessage : String';
17075: Function GetPreferredUIFont : String';
17076: Function IsWildcard( const Pattern : String ) : Boolean';
17077: Function WildcardMatch( const Text, Pattern : PChar ) : Boolean';
17078: Function IntMax( const A, B : Integer ) : Integer';
17079: Function Win32ErrorString( ErrorCode : Integer ) : String';
17080: Procedure GetLeadBytes( var ALeadBytes : TLeadByteSet );
17081: Function inCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean';
17082: Function DeleteDirTree( const Dir : String ) : Boolean';
17083: Function SetNTFSCompression(const FileOrDir: String; Compress : Boolean) : Boolean';
17084: Procedure AddToWindowMessageFilterEx( const Wnd : HWND; const Msg : UINT );
17085: // CL.AddTypes('TSysCharSet', 'set of AnsiChar');
17086: Function inCharInSet( C : Char; const CharSet : TSysCharSet ) : Boolean';
17087: Function ShutdownBlockReasonCreate( Wnd : HWND; const Reason : String ) : Boolean';
17088: Function ShutdownBlockReasonDestroy( Wnd : HWND ) : Boolean';
17089: Function TryStrToBoolean( const S : String; var BoolStr : Boolean ) : Boolean';
17090: Procedure WaitMessageWithTimeout( const Milliseconds : DWORD );
17091: Function MoveFileReplace(const ExistingFileName, NewFileName : String ) : Boolean';
17092: Procedure TryEnableAutoCompleteFileSystem( Wnd : HWND );
17093: end;
17094:
17095: procedure SIRegister_CmnFunc(CL: TPPSPascalCompiler);
17096: begin
17097:   SIRegister_TWindowDisabler(CL);
17098:   TMsgBoxType', '( mbInformation, mbConfirmation, mbError, mbCriticalError ) ');
17099:   TMsgBoxCallbackFunc', 'procedure(const Flags:LongInt;const After:Bool;const Param:LongInt);
17100:   Procedure UpdateHorizontalExtent( const ListBox : TCustomListBox );
17101:   Function MinimizePathName(const Filenam:String; const Font:TFont;MaxLen:Integer):String;
17102:   Function AppMessageBox( const Text, Caption : PChar; Flags : Longint ) : Integer';
17103:   Function MsgBoxP( const Text,Caption:PChar; const Typ: TMMsgBoxType;const Buttons:Cardinal):Int;
17104:   Function inMsgBox(const Text,Caption:String; const Typ: TMMsgBoxType;const Buttons:Cardinal):Int;

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17105: Function MsgBoxFmt(const Text:String;const Args:array of const;const Caption:String;const
17106:   Typ:TMsgBoxType;const Buttons:Cardinal):Integer');
17107: Procedure ReactivateTopWindow());
17108: Procedure SetMessageBoxCaption( const Typ : TMsgBoxType; const NewCaption : PChar );
17109: Procedure SetMessageBoxRightToLeft( const ARightToLeft : Boolean );
17110: Procedure SetMessageBoxCallbackFunc(const AFunc : TMsgBoxCallbackFunc; const AParam : LongInt );
17111: end;
17112: procedure SIRегистер_ImageGrabber(CL: TPSPascalCompiler);
17113: begin
17114:   SIRегистер_TImageGrabber(CL);
17115:   SIRегистер_TCaptureDrivers(CL);
17116:   SIRегистер_TCaptureDriver(CL);
17117: end;
17118:
17119: procedure SIRегистер_SecurityFunc(CL: TPSPascalCompiler);
17120: begin
17121:   Function GrantPermissionOnFile(const DisableFsRedir:Boolean; Filename:String;const
17122:     Entries:TGrantPermissionEntry; const EntryCount:Integer):Boolean';
17123:   Function GrantPermissionOnKey(const RegView:TRegView;const RootKey:HKEY;const Subkey:String;const
17124:     Entries: TGrantPermissionEntry; const EntryCount:Integer): Boolean';
17125: end;
17126: procedure SIRегистер_RedirFunc(CL: TPSPascalCompiler);
17127: begin
17128:   CL.AddTypeS('TPreviousFsRedirectionState', 'record DidDisable : Boolean; OldValue : __Pointer; end');
17129:   CL.AddDelphiFunction('Function AreFsRedirectionFunctionsAvailable : Boolean');
17130:   Procedure DisableFsRedirectionIf(const Disable:Boolean;var PreviousState:TPreviousFsRedirectionState):Bool;
17131:   Function CreateDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17132:   Function CreateProcessRedir(const DisableFsRedir:Boolean; const lpApplicationName : PChar; const
17133:     lpCommandLine : PChar; const lpProcessAttributes, lpThreadAttributes : PSecurityAttributes; const
17134:     bInheritHandles : BOOL;
17135:     +' const dwCreationFlags : DWORD; const lpEnvironment : Pointer; const lpCurrentDirectory : PChar; const
17136:     lpStartupInfo : TStartupInfo; var lpProcessInformation : TProcessInformation ) : BOOL';
17137:   Function CopyFileRedir(const DisableFsRedir:Boolean; const ExistingFilename, NewFilename : String; const
17138:     FailIfExists : Boolean ) : BOOL';
17139:   Function DeleteFileRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17140:   Function DirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17141:   Function FileOrDirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17142:   Function FindFirstFileRedir( const DisableFsRedir : Boolean; const Filename : String; var FindData : TWin32FindData ) : THandle';
17143:   Function GetFileAttributesRedir( const DisableFsRedir : Boolean; const Filename : String ) : DWORD';
17144:   Function GetShortNameRedir( const DisableFsRedir : Boolean; const Filename : String ) : String';
17145:   Function GetVersionNumbersRedir(const DisableFsRedir:Boolean; const Filename:String; var VersionNumbers : TFileVersionNumbers ) : Boolean';
17146:   Function IsDirectoryAndNotReparsePointRedir(const DisableFsRedir:Boolean;const Name:String):Bool;
17147:   Function MoveFileRedir(const DisableFsRedir:Bool;const ExistingFilename,NewFilename:String):BOOL;
17148:   Function MoveFileExRedir(const DisableFsRedir:Boolean;const ExistingFilename,NewFilename:String;const
17149:     Flags:DWORD):BOOL;
17150:   SIRегистер_TTextfileReaderRedir(CL);
17151:   SIRегистер_TTextfileWriterRedir(CL);
17152: end;
17153:
17154: procedure SIRегистер_Int64Em(CL: TPSPascalCompiler);
17155: begin
17156:   //CL.AddTypeS('LongWord', 'Cardinal');
17157:   CL.AddTypeS('Integer64', 'record Lo : LongWord; Hi : LongWord; end');
17158:   Function Compare64( const N1, N2 : Integer64 ) : Integer';
17159:   Procedure Dec64( var X : Integer64; N : LongWord );
17160:   Procedure Dec6464( var X : Integer64; const N : Integer64 );
17161:   Function Div64( var X : Integer64; const Divisor : LongWord ) : LongWord';
17162:   Function Inc64( var X : Integer64; N : LongWord ) : Boolean';
17163:   Function Inc6464( var X : Integer64; const N : Integer64 ) : Boolean';
17164:   Function Integer64ToStr( X : Integer64 ) : String';
17165:   Function Mod64( const X : Integer64; const Divisor : LongWord ) : LongWord';
17166:   Function Mul64( var X : Integer64; N : LongWord ) : Boolean';
17167:   Procedure Multiply32x32to64( N1, N2 : LongWord; var X : Integer64 );
17168:   Procedure Shr64( var X : Integer64; Count : LongWord );
17169:   Function StrToInteger64( const S : String; var X : Integer64 ) : Boolean';
17170: end;
17171:
17172: procedure SIRегистер_InstFunc(CL: TPSPascalCompiler);
17173: begin
17174:   //CL.AddTypeS('PSimpleStringListArray', '^TSimpleStringListArray // will not work');
17175:   SIRегистер_TSimpleStringList(CL);
17176:   CL.AddTypeS('TExecWait', '( ewNoWait, ewWaitUntilTerminated, ewWaitUntilIdle )');
17177:   CL.AddTypeS('TDetermineDefaultLanguageResult', '( ddNoMatch, ddMatch, ddMatchLangParameter )');
17178:   CL.AddTypeS('TMD5Digest', 'array[0..15] of Byte;');
17179:   CL.AddTypeS('TSHA1Digest', 'array[0..19] of Byte;');
17180:   // TMD5Digest = array[0..15] of Byte;
17181:   // TSHA1Digest = array[0..19] of Byte;
17182:   Function CheckForMutexes( Mutexes : String ) : Boolean';
17183:   Function CreateTempDir : String';

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17184: Function DecrementSharedCount( const RegView : TRegView; const Filename : String ) : Boolean';
17185: Procedure DelayDeleteFile( const DisableFsRedir : Boolean; const Filename : String; const MaxTries,
FirstRetryDelayMS, SubsequentRetryDelayMS : Integer );
17186: //Function DelTree( const DisableFsRedir : Boolean; const Path : String; const IsDir, DeleteFiles,
DeleteSubdirsAlso, BreakOnError : Boolean; const DeleteDirProc : TDeleteDirProc; const DeleteFileProc :
TDeleteFileProc; const Param : Pointer ) : Boolean';
17187: //Function DetermineDefaultLanguage( const GetLanguageEntryProc : TGetLanguageEntryProc; const Method :
TSetupLanguageDetectionMethod; const LangParameter : String; var ResultIndex : Integer ) :
TDetermineDefaultLanguageResult';
17188: //Procedure EnumFileReplaceOperationsFilenames(const EnumFunc:TEnumFROFilenamesProc;Param:Pointer);
17189: Function GenerateNonRandomUniqueFilename( Path : String; var Filename : String ) : Boolean';
17190: Function GenerateUniqueName( const DisableFsRedir:Bool;Path:String;const Extension:String):String;
17191: Function GetComputerNameString : String';
17192: Function GetFileDateTime( const DisableFsRedir:Boolean;const Filename:String;var DateTime:TFileTime ):Bool;
17193: Function GetMD5OfFile( const DisableFsRedir : Boolean; const Filename : String ) : TMD5Digest';
17194: Function GetMD5OfFileA( const S : AnsiString ) : TMD5Digest';
17195: // Function GetMD5OfFileUnicode( const S : UnicodeString ) : TMD5Digest';
17196: Function GetSHA1OfFile( const DisableFsRedir:Boolean;const Filename:String):TSHA1Digest';
17197: Function GetSHA1OfFileA( const S : AnsiString ) : TSHA1Digest';
17198: // Function GetSHA1OfFileUnicode( const S : UnicodeString ) : TSHA1Digest';
17199: Function GetRegRootKeyName( const RootKey : HKEY ) : String';
17200: Function GetSpaceOnDisk( const DisableFsRedir:Bool;const DriveRoot:String;var FreeBytes,
TotBytes:Int64 ) : Bool;
17201: Function GetSpaceOnNearestMountPoint( const DisableFsRedir:Bool;const StartDir:String;var FreeBytes,
TotalBytes: Integer64 ) : Bool;
17202: Function GetUserNamesString : String';
17203: Procedure IncrementSharedCount( const RegView:TRegView;const Filename:String;const AlreadyExisted:Boolean );
17204: //Function InstExec( const DisableFsRedir : Boolean; const Filename, Params : String; WorkingDir :
String; const Wait:TExecWait;const ShowCmd:Integer;const ProcessMessagesProc:TProcedure;var
ResultCode:Integer ) : Boolean';
17205: // Function InstShellExec( const Verb, Filename, Params : String; WorkingDir : String; const Wait :
TExecWait; const ShowCmd:Integer;const ProcessMessagesProc:TProcedure;var ResultCode:Integer ):Boolean;
17206: Procedure InternalError( const Id : String );
17207: Procedure InternalErrorFmt( const S : String; const Args : array of const );
17208: Function IsDirEmpty( const DisableFsRedir : Boolean; const Dir : String ) : Boolean';
17209: Function IsProtectedSystemFile( const DisableFsRedir:Boolean; const Filename:String ) : Boolean';
17210: Function MakePendingFileRenameOperationsChecksum : TMD5Digest';
17211: Function ModifyPifFile( const Filename : String; const CloseOnExit : Boolean ) : Boolean';
17212: Procedure RaiseFunctionFailedError( const FunctionName : String );
17213: Procedure RaiseOleError( const FunctionName : String; const ResultCode : HRESULT );
17214: Procedure RefreshEnvironment();
17215: Function ReplaceSystemDirWithSysWow64( const Path : String ) : String';
17216: Function ReplaceSystemDirWithSysNative( Path : String; const IsWin64 : Boolean ) : String';
17217: Procedure UnregisterFont( const FontName, FontFilename : String );
17218: Function RestartComputer : Boolean';
17219: Procedure RestartReplace( const DisableFsRedir : Boolean; TempFile, DestFile : String );
17220: Procedure SplitNewParamStr( const Index : Integer; var AName, AValue : String );
17221: Procedure Win32ErrorMsg( const FunctionName : String );
17222: Procedure Win32ErrorMsgEx( const FunctionName : String; const ErrorCode : DWORD );
17223: Function inForceDirectories( const DisableFsRedir:Boolean; Dir : String ) : Boolean';
17224: //from Func2
17225: //Function inCreateShellLink( const Filename, Description, ShortcutTo, Parameters, WorkingDir : String,
IconFilename : String; const IconIndex, ShowCmd : Integer; const HotKey : Word; FolderShortcut : Boolean,
//+'const AppUserModelID:String;const ExcludeFromShowInNewInstall,PreventPinning:Bool):String';
17226: Procedure RegisterTypeLibrary( const Filename : String );
17227: //Procedure UnregisterTypeLibrary( const Filename : String );
17228: //Procedure UnpinShellLink( const Filename : String ) : Boolean';
17229: function getVersionInfoEx3: TOSVersionInfoEx';
17230: Function GetVersionEx3(out verinfo: TOSVersionInfoEx): boolean';
17231: procedure InitOle();
17232: Function ExpandConst( const S : String ) : String';
17233: Function ExpandConstEx( const S : String; const CustomConsts : array of String ) : String';
17234: Function ExpandConstEx2(const S:Str;const CustConsts:array of Str;const DoExpandIndividualConst:Bool):Str;
17235: Function ExpandConstIfPrefixed( const S : String ) : String';
17236: Procedure LogWindowsVersion();
17237: Function EvalCheck( const Expression : String ) : Boolean';
17238: end;
17239: end;
17240:
17241: procedure SIRegister_unitResourceDetails(CL: TPSPascalCompiler);
17242: begin
17243: CL.AddClassN(CL.FindClass('TOBJECT'), 'TResourceDetails');
17244: //CL.AddTypeS('TResourceDetailsClass', 'class of TResourceDetails');
17245: SIRegister_TResourceModule(CL);
17246: SIRegister_TResourceDetails(CL);
17247: SIRegister_TAnsiResourceDetails(CL);
17248: SIRegister_TUnicodeResourceDetails(CL);
17249: Procedure RegisterResourceDetails( resourceClass : TResourceDetailsClass );
17250: Procedure UnRegisterResourceDetails( resourceClass : TResourceDetailsClass );
17251: Function ResourceWideCharToStr( var wstr : PWideChar; codePage : Integer ) : string';
17252: Procedure ResourceStrToWideChar( const s : string; var p : PWideChar; codePage : Integer );
17253: Function ResourceNameToInt( const s : string ) : Integer';
17254: Function CompareDetails( p1, p2 : TObject(Pointer) ) : Integer';
17255: end;
17256:
17257:
17258: procedure SIRegister_TSsimpleComPort(CL: TPSPascalCompiler);
17259: begin
17260: //with RegClassS(CL,'TObject', 'TSsimpleComPort') do
17261: with CL.AddClassN(CL.FindClass('TObject'), 'TSsimpleComPort') do begin

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17262: RegisterMethod('Constructor Create');
17263: RegisterMethod('Procedure Free');
17264: RegisterMethod('Procedure Open( PortNumber : Integer; const Parameters : String)');
17265: RegisterMethod('Procedure WriteString( const S : String)');
17266: RegisterMethod('Procedure ReadString( var S : String)');
17267: end;
17268: Ex := SimpleComPort := TSimpleComPort.Create;
17269: SimpleComPort.Open(1, 'baud=115200 parity=N data=8 stop=1');
17270: SimpleComPort.WriteString(AsciiChar);
17271: end;
17272:
17273:
17274: procedure SIRegister_Console(CL: TPSCompiler);
17275: begin
17276: CL.AddConstantN('White','LongInt').SetInt( 15 );
17277: // CL.AddConstantN('Blink','LongInt').SetInt( 128 );
17278: CL.AddConstantN('conBW40','LongInt').SetInt( 0 );
17279: CL.AddConstantN('conCO40','LongInt').SetInt( 1 );
17280: CL.AddConstantN('conBW80','LongInt').SetInt( 2 );
17281: CL.AddConstantN('conCO80','LongInt').SetInt( 3 );
17282: CL.AddConstantN('conMono','LongInt').SetInt( 7 );
17283: CL.AddConstantN('conFont8x8','LongInt').SetInt( 256 );
17284: //CL.AddConstantN('C40','','').SetString( C040 );
17285: //CL.AddConstantN('C80','','').SetString( C080 );
17286: Function conReadKey : Char';
17287: Function conKeyPressed : Boolean';
17288: Procedure conGotoXY( X, Y : Smallint );
17289: Function conWhereX : Integer';
17290: Function conWhereY : Integer';
17291: Procedure conTextColor( Color : Byte );
17292: Function conTextColor1 : Byte ';
17293: Procedure conTextBackground( Color : Byte );
17294: Function conTextBackground1 : Byte ';
17295: Procedure conTextMode( Mode : Word );
17296: Procedure conLowVideo';
17297: Procedure conHighVideo';
17298: Procedure conNormVideo';
17299: Procedure conClrScr';
17300: Procedure conClrEol';
17301: Procedure conInsLine';
17302: Procedure conDelLine';
17303: Procedure conWindow( Left, Top, Right, Bottom : Integer );
17304: Function conScreenWidth : Smallint';
17305: Function conScreenHeight : Smallint';
17306: Function conBufferWidth : Smallint';
17307: Function conBufferHeight : Smallint';
17308: procedure InitScreenMode';
17309: end;
17310:
17311:
17312: {A simple Oscilloscope using TWaveIn class.
17313: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
17314: uses
17315:   Forms,
17316:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
17317:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
17318:   uColorFunctions in 'uColorFunctions.pas',
17319:   AMixer in 'AMixer.pas',
17320:   uSettings in 'uSettings.pas',
17321:   UWavein4 in 'UWavein4.pas',
17322:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
17323:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
17324:
17325:
17326: Functions_max hex in the box maxbox
17327: functionslist.txt
17328: FunctionsList1 3.9.9.86/88/91/92/94/95/96/98
17329:
17330: ****
17331: Procedure
17332: PROCEDURE SIZE 8073 7507 7401 6792 6310 5971 4438 3797 3600 7881 7938
17333: Procedure *****Now the Procedure list*****
17334: Procedure ( ACol, ARow : Integer; Items : TStrings )
17335: Procedure ( Agg : TAggregate )
17336: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus )
17337: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage )
17338: Procedure ( ASender : TComponent; var AMsg : TIdMessage )
17339: Procedure ( ASender : TObject; const ABytes : Integer )
17340: Procedure ( ASender : TObject; VStream : TStream )
17341: Procedure ( AThread : TIdThread )
17342: Procedure ( AWebModule : TComponent )
17343: Procedure ( Column : TColumn )
17344: Procedure ( const AUsername : String; const APASSWORD : String; AAuthenticationResult : Boolean )
17345: Procedure ( const iStart : integer; const sText : string )
17346: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean )
17347: Procedure ( Database : TDatabase; LoginParams : TStrings )
17348: Procedure ( DataSet:TCustomClientDataSet; E:EReconcileError; UpdateKind:TUpdateKind; var Action:TReconcileAction )
17349: Procedure ( DATASET : TDATASET )

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17350: Procedure ( DataSet:TDataSet; E:EDatabaseError; UpdateKind:TUpdateKind; var UpdateAction: TUpdateAction)
17351: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
17352: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
17353: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
17354: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
17355: Procedure ( Done : Integer)
17356: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
17357: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
17358: Procedure ( HeaderControl:TCustomHeaderControl;Sect:THeaderSection;Width:Int;State:TSectionTrackState)
17359: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
17360: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
17361: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
17362: Procedure ( Sender : TCustomListView;const ARect : TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
17363: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
17364: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TownerDrawState)
17365: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
17366: Procedure ( SENDER : TFIELD; const TEXT : String)
17367: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
17368: Procedure ( Sender : TIdTelnet; const Buffer : String)
17369: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
17370: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
17371: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17372: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
17373: Procedure ( Sender : TObject; ARow : Longint; const Value : string)
17374: Procedure ( Sender : TObject; ARow : Longint; Rect : TRect; State : TGridDrawState)
17375: Procedure ( Sender : TObject; ARow : Longint; var CanSelect : Boolean)
17376: Procedure ( Sender : TObject; ARow : Longint; var Value : string)
17377: Procedure ( Sender : TObject; Button : TMPBtnType)
17378: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
17379: Procedure ( Sender : TObject; Button : TUDBtnType)
17380: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
17381: Procedure ( Sender : TObject; ClientSocket : TServerClientWinSocket; var SocketThread : TServerClientThread)
17382: Procedure ( Sender : TObject; Column : TListColumn)
17383: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
17384: Procedure ( Sender : TObject; Connecting : Boolean)
17385: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var DoneDraw:Bool
17386: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
17387: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
17388: Procedure ( Sender : TObject; const UserString:string;var DateAndTime:TDate;var AllowChange:Boolean)
17389: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
17390: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
17391: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
17392: Procedure ( Sender : TObject; Index : LongInt)
17393: Procedure ( Sender : TObject; Item : TListItem)
17394: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
17395: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
17396: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
17397: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
17398: Procedure ( Sender : TObject; Item : TListItem; var S : string)
17399: Procedure ( Sender : TObject; Item1 : TListItem; Item2 : TListItem; Data : Integer; var Compare : Integer)
17400: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
17401: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
17402: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
17403: Procedure ( Sender : TObject; Node : TTreenode)
17404: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
17405: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
17406: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
17407: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
17408: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
17409: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
17410: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
17411: Procedure ( Sender : TObject; Rect : TRect)
17412: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
17413: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int
17414: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
17415: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
17416: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
17417: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
17418: Procedure ( SENDER : TOBJECT; SOURCE : TMENUTITEM; REBUILD : BOOLEAN)
17419: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
17420: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
17421: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
17422: Procedure ( Sender : TObject; Thread : TServerClientThread)
17423: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
17424: Procedure ( Sender : TObject; Username, Password : string)
17425: Procedure ( Sender : TObject; var AllowChange : Boolean)
17426: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
17427: Procedure ( Sender : TObject; var Caption : string; var Alignment : THTMLCaptionAlignment)
17428: Procedure ( Sender : TObject; var Continue : Boolean)
17429: Procedure ( Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMETHOD:TIdHTTPMethod)
17430: Procedure ( Sender : TObject; var Username : string)
17431: Procedure ( Sender : TObject; Wnd : HWND)
17432: Procedure ( Sender : TToolbar; Button : TToolBar)
17433: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
17434: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
17435: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
17436: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolBar)
17437: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)

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17438: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
17439: Procedure ( var FieldNames:TWideStrings; SQL:WideString; var BindAllFields:Boolean; var TableName: WideString)
17440: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
17441: procedure ( Sender: TObject)
17442: procedure ( Sender: TObject; var Done: Boolean)
17443: procedure ( Sender: TObject; var Key: Word; Shift: TShiftState);
17444: procedure _T(Name: tbtString; v: Variant);
17445: Procedure AbandonSignalHandler( RtlSigNum : Integer)
17446: Procedure Abort
17447: Procedure About1Click( Sender : TObject)
17448: Procedure Accept( Socket : TSocket)
17449: Procedure AESSymetricExecute(const plaintext, ciphertext, password: string)
17450: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
17451: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
17452: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
17453: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
17454: Procedure Add( Addend1, Addend2 : TMyBigInt)
17455: Procedure ADD( const AKEY, AVALUE : VARIANT)
17456: Procedure Add( const Key : string; Value : Integer)
17457: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
17458: Procedure ADD( FIELD : TFIELD)
17459: Procedure ADD( ITEM : TMENUITEM)
17460: Procedure ADD( POPUP : TPOPUPMENU)
17461: Procedure AddCharacters( xCharacters : TCharSet)
17462: Procedure AddDriver( const Name : string; List : TStrings)
17463: Procedure AddImages( Value : TCustomImageList)
17464: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
17465: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
17466: Procedure AddLoader( Loader : TBitmapLoader)
17467: Procedure ADDPARAM( VALUE : TPARAM)
17468: Procedure AddPassword( const Password : string)
17469: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
17470: Procedure AddState( oState : TniRegularExpressionState)
17471: Procedure AddStrings( Strings : TStrings);
17472: procedure AddStrings(Strings: TStrings);
17473: Procedure AddStringsl( Strings : TWideStrings);
17474: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
17475: Procedure AddToRecentDocs( const Filename : string)
17476: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
17477: Procedure AllFunctionsList1Click( Sender : TObject)
17478: procedure AllobjectsList1Click(Sender: TObject);
17479: Procedure Allocate( AAllocateBytes : Integer)
17480: procedure AllResourceList1Click(Sender: TObject);
17481: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
17482: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
17483: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
17484: Procedure AnsiFree( var s : AnsiString)
17485: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
17486: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
17487: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
17488: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
17489: Procedure AntiFreeze;
17490: Procedure APPEND
17491: Procedure Append( const S : WideString)
17492: procedure Append(S: string);
17493: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
17494: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
17495: Procedure AppendChunk( Val : OleVariant)
17496: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
17497: Procedure AppendStr( var Dest : string; S : string)
17498: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALength : Integer)
17499: Procedure ApplyRange
17500: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17501: Procedure Arrange( Code : TListArrangement)
17502: procedure Assert(expr : Boolean; const msg: string);
17503: procedure Assert2(expr : Boolean; const msg: string);
17504: Procedure Assign( Alist : TCustomBucketList)
17505: Procedure Assign( Other : TObject)
17506: Procedure Assign( Source : TDragObject)
17507: Procedure Assign( Source : TPersistent)
17508: Procedure Assign(Source: TPersistent)
17509: procedure Assign2(mystring, mypath: string);
17510: Procedure AssignCurValues( Source : TDataSet);
17511: Procedure AssignCurValues1( const CurValues : Variant);
17512: Procedure ASSIGNFIELD( FIELD : TFIELD)
17513: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
17514: Procedure AssignFile(var F: Text; FileName: string)
17515: procedure AssignFile(var F: TextFile; FileName: string)
17516: procedure AssignFileRead(var mystring, myfilename: string);
17517: procedure AssignFileWrite(mystring, myfilename: string);
17518: Procedure AssignTo( Other : TObject)
17519: Procedure AssignValues( Value : TParameters)
17520: Procedure ASSIGNVALUES( VALUE : TPARAMS)
17521: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
17522: Procedure Base64_to_stream( const Base64 : ansistring; Destin : Tstream)
17523: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
17524: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
17525: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
17526: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);

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17527: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
17528: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
17529: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
17530: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
17531: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
17532: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
17533: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
17534: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
17535: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
17536: procedure Beep
17537: Procedure BeepOk
17538: Procedure BeepQuestion
17539: Procedure BeepHand
17540: Procedure BeepExclamation
17541: Procedure BeepAsterisk
17542: Procedure BeepInformation
17543: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
17544: Procedure BeginLayout
17545: Procedure BeginTimer( const Delay, Resolution : Cardinal)
17546: Procedure BeginUpdate
17547: procedure BeginUpdate;
17548: procedure BigScreen1Click(Sender: TObject);
17549: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
17550: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
17551: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
17552: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
17553: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
17554: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
17555: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
17556: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
17557: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
17558: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
17559: Procedure BreakPointMenuClick( Sender : TObject)
17560: procedure BRINGTOFRONT
17561: procedure BringToFront;
17562: Procedure btnBackClick( Sender : TObject)
17563: Procedure btnBrowseClick( Sender : TObject)
17564: Procedure BtnClick( Index : TNavigateBtn)
17565: Procedure btnLargeIconsClick( Sender : TObject)
17566: Procedure BuildAndSendRequest( AURI : TIdURI)
17567: Procedure BuildCache
17568: Procedure BurnMemory( var Buff, BuffLen : integer)
17569: Procedure BurnMemoryStream( Destrukt : TMemoryStream)
17570: Procedure CalculateFirstSet
17571: Procedure Cancel
17572: procedure CancelDrag;
17573: Procedure CancelEdit
17574: procedure CANCELHINT
17575: Procedure CancelRange
17576: Procedure CancelUpdates
17577: Procedure CancelWriteBuffer
17578: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool;
17579: Procedure Capture2(ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
17580: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool
17581: procedure CaptureScreenFormat(vname: string; vextension: string);
17582: procedure CaptureScreenPNG(vname: string);
17583: procedure CardinalsToInt64(var I: Int64; const LowPart, HighPart: Cardinal);
17584: procedure CASCADE
17585: Procedure CastNativeToSoap(Info:PTTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
17586: Procedure CastSoapToVariant( SoapInfo : PTTypeInfo; const SoapData : WideString; NatData : Pointer);
17587: Procedure cbPathClick( Sender : TObject)
17588: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
17589: Procedure cedebugAfterExecute( Sender : TPSScript)
17590: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
17591: Procedure cedebugCompile( Sender : TPSScript)
17592: Procedure cedebugExecute( Sender : TPSScript)
17593: Procedure cedebugIdle( Sender : TObject)
17594: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
17595: Procedure CenterHeight( const pc, pcParent : TControl)
17596: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
17597: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
17598: Procedure Change
17599: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
17600: Procedure Changed
17601: Procedure ChangeDir( const ADirName : string)
17602: Procedure ChangeDirUp
17603: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
17604: Procedure ChangeLevelBy( Value : TChangeRange)
17605: Procedure ChDir(const s: string)
17606: Procedure Check(Status: Integer)
17607: Procedure CheckCommonControl( CC : Integer)
17608: Procedure CHECKFIELDNAME( const FIELDNAME : String)
17609: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
17610: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
17611: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
17612: Procedure CheckToken( T : Char)
17613: procedure CheckToken(t:char)
17614: Procedure CheckTokenSymbol( const S : string)
17615: procedure CheckTokenSymbol(s:string)

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17616: Procedure CheckToolMenuDropdown( ToolButton : TToolButton )
17617: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17618: Procedure CIED65ToCIED50( var X, Y, Z : Extended );
17619: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal );
17620: procedure CipherFile1Click(Sender: TObject);
17621: Procedure Clear;
17622: Procedure Clear1Click( Sender : TObject );
17623: Procedure ClearColor( Color : TColor );
17624: Procedure CLEARITEM( AITEM : TMENUITEM );
17625: Procedure ClearMapping;
17626: Procedure ClearSelection( KeepPrimary : Boolean );
17627: Procedure ClearWriteBuffer;
17628: Procedure Click;
17629: Procedure Close;
17630: Procedure Close1Click( Sender : TObject );
17631: Procedure CloseDatabase( Database : TDatabase );
17632: Procedure CloseDataSets;
17633: Procedure CloseDialog;
17634: Procedure CloseFile(var F: Text);
17635: Procedure Closure;
17636: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17637: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17638: Procedure CodeCompletionList1Click( Sender : TObject );
17639: Procedure ColEnter;
17640: Procedure Collapse;
17641: Procedure Collapse( Recurse : Boolean );
17642: Procedure ColorRGBToHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word );
17643: Procedure CommaSeparatedToStringList( AList : TStringList; const Value : string );
17644: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction );
17645: Procedure Compile1Click( Sender : TObject );
17646: procedure ComponentCount1Click(Sender: TObject);
17647: Procedure Compress(azipfolder, azipfile: string);
17648: Procedure DeCompress(azipfolder, azipfile: string);
17649: Procedure XZip(azipfolder, azipfile: string);
17650: Procedure XUnZip(azipfolder, azipfile: string);
17651: Procedure Connect( const ATimeout : Integer );
17652: Procedure Connect( Socket : TSocket );
17653: procedure Console1Click(Sender: TObject );
17654: Procedure Continue;
17655: Procedure ContinueCount( var Counter : TJclCounter );
17656: procedure CONTROLDESTROYED(CONTROL:TCONTROL);
17657: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer );
17658: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer );
17659: Procedure ConvertImage(vsource, vdestination: string);
17660: // Ex. ConvertImage(Exepath+'my233.bmp.bmp',Exepath+'mypng111.png')
17661: Procedure ConvertBitmap(vsource, vdestination: string);
17662: Procedure ConvertToGray(Cnv: TCanvas);
17663: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer );
17664: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer );
17665: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer );
17666: Procedure CopyBytesToHostLongWord(const ASrc:TIdBytes;const ASrcIndex:Integer;var VDest:LongWord);
17667: Procedure CopyBytesToHostWord( const ASrc : TIdBytes; const ASrcIndex : Integer; var VDest : Word );
17668: Procedure CopyFrom( mbCopy : TMyBigInt );
17669: Procedure CopyMemoryStream( Source, Destination : TMemoryStream );
17670: procedure CopyRect( const Dest: TRect; Canvas: TCanvas; const Source: TRect );
17671: Procedure CopyTidByteArray( const ASrc : array of Byte; const ASrcIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALength : Integer );
17672: Procedure CopyTidBytes( const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int );
17673: Procedure CopyTidCardinal( const ASrc : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer );
17674: Procedure CopyTidInt64( const ASrc : Int64; var VDest : TIdBytes; const ADestIndex : Integer );
17675: Procedure CopyTidIPv6Address(const ASrc:TIdIPv6Address; var VDest: TIdBytes; const ADestIndex : Integer );
17676: Procedure CopyTidLongWord( const ASrc : LongWord; var VDest : TIdBytes; const ADestIndex : Integer );
17677: Procedure CopyTidNetworkLongWord( const ASrc : LongWord; var VDest : TIdBytes; const ADestIndex:Integer );
17678: Procedure CopyTidNetworkWord( const ASrc : Word; var VDest : TIdBytes; const ADestIndex : Integer );
17679: Procedure CopyTidString(const ASrc:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer );
17680: Procedure CopyTidWord( const ASrc : Word; var VDest : TIdBytes; const ADestIndex : Integer );
17681: Procedure CopyToClipboard;
17682: Procedure CountParts;
17683: Procedure CreateDataSet;
17684: Procedure CreateEmptyFile( const FileName : string );
17685: Procedure CreateFileFromString( const FileName, Data : string );
17686: Procedure CreateFromDelta( Source : TPacketDataSet );
17687: procedure CREATEHANDLE;
17688: Procedure CreatePipeStreams(var InPipe:TInputPipeStream;var OutPipe:TOutputPipeStream;SecAttr:PSecurityAttributes; BufSize:Longint);
17689: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string );
17690: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar);
17691: Procedure CreateTable;
17692: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString );
17693: procedure CSyntax1Click(Sender: TObject);
17694: Procedure CurrencyToComp( Value : Currency; var Result : Comp );
17695: Procedure CURSORPOSCHANGED;
17696: procedure CutFirstDirectory(var S: String);
17697: Procedure DataBaseError(const Message: string);
17698: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime );
17699: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime);
17700: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime );
17701: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime );

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17702: Procedure DBIError(errorCode: Integer)
17703: Procedure DebugOutput( const AText : string)
17704: Procedure DebugRun1Click( Sender : TObject)
17705: procedure Dec;
17706: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
17707: procedure DecodeDate( const DateTime: TDateTime; var Year, Month, Day: Word);
17708: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
17709: Procedure DecodeDateMonthWeek( const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word)
17710: Procedure DecodeDateTime( const DateTime:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
17711: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
17712: Procedure DecodeDayOfWeekInMonth( const AValue:TDateTime;out AYear,AMonth,ANhDayOfWeek,ADayOfWeek:Word)
17713: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
17714: procedure DecodeTime( const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
17715: Procedure Decompile1Click( Sender : TObject)
17716: Procedure DefaultDrawColumnCell( const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
17717: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
17718: Procedure DeferLayout
17719: Procedure defFileRead
17720: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL;REMOVING:BOOLEAN)
17721: Procedure DelayMicroseconds( const MicroSeconds : Integer)
17722: Procedure Delete
17723: Procedure Delete( const AFilename : string)
17724: Procedure Delete( const Index : Integer)
17725: Procedure DELETE( INDEX : INTEGER)
17726: Procedure Delete( Index : LongInt)
17727: Procedure Delete( Node : TTreeNode)
17728: procedure Delete(var s: AnyString; ifrom, icount: Longint);
17729: Procedure DeleteAlias( const Name : string)
17730: Procedure DeleteDriver( const Name : string)
17731: Procedure DeleteIndex( const Name : string)
17732: Procedure DeleteKey( const Section, Ident : String)
17733: Procedure DeleteRecords
17734: Procedure DeleteRecords( AffectRecords : TAffectRecords)
17735: Procedure DeleteString( var pStr : String; const pDelStr : string)
17736: Procedure DeleteTable
17737: procedure DelphiSite1Click(Sender: TObject);
17738: Procedure Deselect
17739: Procedure Deselect( Node : TTreeNode)
17740: procedure DestroyComponents
17741: Procedure DestroyHandle
17742: Procedure Diff( var X : array of Double)
17743: procedure Diff(var X: array of Double);
17744: Procedure DirCreate( const DirectoryName : String)');
17745: procedure DISABLEALIGN
17746: Procedure DisableConstraints
17747: Procedure Disconnect
17748: Procedure Disconnect( Socket : TSocket)
17749: Procedure Dispose
17750: procedure Dispose(P: PChar)
17751: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
17752: Procedure DoKey( Key : TDBCtrlGridKey)
17753: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17754: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17755: Procedure Dormant
17756: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
17757: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
17758: Procedure DoubleToComp( Value : Double; var Result : Comp)
17759: Procedure doWebCamPic(picname: string); //eg: c:\mypic.png
17760: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
17761: procedure Draw(X, Y: Integer; Graphic: TGraphic);
17762: Procedure Draw(Canvas:TCanvas; X,Y,
    Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
17763: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17764: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
17765: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17766: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
17767: procedure DrawFocusRect(const Rect: TRect);
17768: Procedure DrawHBITBBitmap( HDIB : THandle; Bitmap : TBitmap)
17769: Procedure DRAWMENUTITEM( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17770: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
17771: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
    TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
17772: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
17773: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
17774: Procedure DropConnections
17775: Procedure DropDown
17776: Procedure DumpDescription( oStrings : TStrings)
17777: Procedure DumpStateTable( oStrings : TStrings)
17778: Procedure EDIT
17779: Procedure EditButtonClick
17780: Procedure EditFont1Click( Sender : TObject)
17781: procedure Ellipse(X1, Y1, X2, Y2: Integer);
17782: Procedure Ellipse1( const Rect : TRect);
17783: Procedure EMMS
17784: Procedure Encode( ADest : TStream)
17785: procedure ENDDRAG(DROP:BOOLEAN)
17786: Procedure EndEdit( Cancel : Boolean)
17787: Procedure EndTimer
17788: Procedure EndUpdate

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17789: Procedure EraseSection( const Section : string)
17790: Procedure Error( const Ident : string)
17791: procedure Error(Ident:Integer)
17792: Procedure ErrorFmt( const Ident : string; const Args : array of const)
17793: Procedure ErrorStr( const Message : string)
17794: procedure ErrorStr(Message:String)
17795: Procedure Exchange( Index1, Index2 : Integer)
17796: procedure Exchange(Index1, Index2: Integer);
17797: Procedure Exec( FileName, Parameters, Directory : string)
17798: Procedure ExecProc
17799: Procedure ExecSQL( UpdateKind : TUpdateKind)
17800: Procedure Execute
17801: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
17802: Procedure ExecuteAndWait(FileName : string; Visibility : Integer)
17803: Procedure ExecuteCommand(executeFile, paramstring: string)
17804: Procedure ExecuteShell(executeFile, paramstring: string)
17805: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
17806: Procedure ExitThread(ExitCode: Integer); stdcall;
17807: Procedure ExitProcess(ExitCode: Integer); stdcall;
17808: Procedure Expand( AUserName : String; AResults : TStrings)
17809: Procedure Expand( Recurse : Boolean)
17810: Procedure ExportClipboard1Click( Sender : TObject)
17811: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
17812: Procedure ExtractContentFields( Strings : TStrings)
17813: Procedure ExtractCookieFields( Strings : TStrings)
17814: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
17815: Procedure ExtractHeaderFields(Separ,
 WhiteSpace:TSysCharSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
17816: Procedure ExtractHTTPFields(Separators,WhiteSpace:
  TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
17817: Procedure ExtractQueryFields( Strings : TStrings)
17818: Procedure FastDegToGrad
17819: Procedure FastDegToRad
17820: Procedure FastGradToDeg
17821: Procedure FastGradToRad
17822: Procedure FastRadToDeg
17823: Procedure FastRadToGrad
17824: Procedure FileClose( Handle : Integer)
17825: Procedure FileClose(handle: integer)
17826: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs>ShowDirs,Multitasking:Bool)
17827: Procedure Filestructure( AStructure : TidFTPDataStructure)
17828: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
17829: Procedure FillBytes( var VBytes : TidBytes; const ACount : Integer; const AValue : Byte)
17830: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
17831: Procedure FillChar2(var X: PChar ; count: integer; value: char)
17832: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
17833: Procedure FillIPList
17834: procedure FillRect(const Rect: TRect);
17835: Procedure FillTStrings( Astrings : TStrings)
17836: Procedure FilterOnBookmarks( Bookmarks : array of const)
17837: procedure FinalizePackage(Module: HMODULE)
17838: procedure FindClose;
17839: procedure FindClose2(var F: TSearchRec)
17840: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
17841: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
17842: Procedure FindNearest( const KeyValues : array of const)
17843: Procedure FinishContext
17844: Procedure FIRST
17845: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
17846: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
17847: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
17848: Procedure FlushSchemaCache( const TableName : string)
17849: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
17850: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
17851: Procedure Form1Close( Sender : TObject; var Action : TCloseAction)
17852: Procedure FormActivate( Sender : TObject)
17853: procedure FormatLn(const format: String; const args: array of const); //alias
17854: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17855: Procedure FormCreate( Sender : TObject)
17856: Procedure FormDestroy( Sender : TObject)
17857: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17858: procedure FormOutput1Click(Sender: TObject);
17859: Procedure FormToHtml( Form : TForm; Path : string)
17860: procedure FrameRect(const Rect: TRect);
17861: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
17862: Procedure NotebookHandlesNeeded( Notebook : TNotebook)
17863: Procedure Free( Buffer : TRecordBuffer)
17864: Procedure Free( Buffer : TValueBuffer)
17865: Procedure Free;
17866: Procedure FreeAndNil(var Obj:TObject)
17867: Procedure FreeImage
17868: procedure FreeMem(P: PChar; Size: Integer)
17869: Procedure FreeTreeData( Tree : TUpdateTree)
17870: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
17871: Procedure FullCollapse
17872: Procedure FullExpand
17873: Procedure GenerateDBB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
17874: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
17875: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)

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17876: Procedure Get1( AURL : string; const AResponseContent : TStream);
17877: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
17878: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
17879: Procedure GetAliasNames( List : TStrings)
17880: Procedure GetAliasParams( const AliasName : string; List : TStrings)
17881: Procedure GetApplicationsRunning( Strings : TStrings)
17882: Procedure getBox(aURL, extension: string);
17883: Procedure GetCommandTypes( List : TWideStrings)
17884: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
17885: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
17886: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
17887: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
17888: Procedure GetDatabaseNames( List : TStrings)
17889: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
17890: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
17891: Procedure GetDir(d: byte; var s: string)
17892: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
17893: Procedure GetDriverNames( List : TStrings)
17894: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
17895: Procedure GetDriverParams( const DriverName : string; List : TStrings)
17896: Procedure GetEmails1Click( Sender : TObject)
17897: Procedure getEnvironmentInfo;
17898: Function getEnvironmentString: string;
17899: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
17900: Procedure GetFieldNames( const TableName : string; List : TStrings)
17901: Procedure GetFieldNames( const TableName : string; List : TStrings);
17902: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
17903: Procedure GETFIELDNAMES( LIST : TSTRINGS)
17904: Procedure GetFieldNames1( const TableName : string; List : TStrings);
17905: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
17906: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
17907: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
17908: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
17909: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
17910: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
17911: Procedure GetFormatSettings
17912: Procedure GetFromDIB( var DIB : TBitmapInfo)
17913: Procedure GetFromHDI( HDIB : HBitmap)
17914: Procedure GetIcon( Index : Integer; Image : TIcon);
17915: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
17916: Procedure GetIndexInfo( IndexName : string)
17917: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
17918: Procedure GetIndexNames( List : TStrings)
17919: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
17920: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
17921: Procedure GetIndexNames4( const TableName : string; List : TStrings);
17922: Procedure GetInternalResponse
17923: Procedure GETITEMNAMES( LIST : TSTRINGS)
17924: procedure GetMem(P: PChar; Size: Integer)
17925: Procedure GETOLE2ACCELERORTABLE(var ACCEL: HACCEL; var ACCELCOUNT: INTEGER; GROUPS: array of INTEGER)
17926: procedure GetPackageDescription(ModuleName: PChar): string)
17927: Procedure GetPackageName( List : TStrings);
17928: Procedure GetPackageNames1( List : TWideStrings);
17929: Procedure GetParamList( List : TList; const ParamNames : WideString)
17930: Procedure GetProcedureNames( List : TStrings);
17931: Procedure GetProcedureNames( List : TWideStrings);
17932: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
17933: Procedure GetProcedureNames1( List : TStrings);
17934: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
17935: Procedure GetProcedureNames3( List : TWideStrings);
17936: Procedure GetProcedureNames4( const PackageName : WideString; List : TWideStrings);
17937: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
17938: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
17939: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
17940: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : WideString; List : TList);
17941: Procedure GetProviderNames( Names : TWideStrings);
17942: Procedure GetProviderNames( Proc : TGetStrProc)
17943: Procedure GetProviderNames1( Names : TStrings);
17944: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; aPath: string);
17945: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;aPath:string); //no open image
17946: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string;aFormat:string):TLinearBitmap;
17947: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
17948: Procedure GetSchemaNames( List : TStrings);
17949: Procedure GetSchemaNames1( List : TWideStrings);
17950: Procedure getScriptandRunAsk;
17951: Procedure getScriptandRun(ascript: string);
17952: Procedure getScript(ascript: string); //alias
17953: Procedure getWebScript(ascript: string); //alias
17954: Procedure GetSessionNames( List : TStrings)
17955: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
17956: Procedure GetStrings( List : TStrings)
17957: Procedure GetSystemTime; stdcall;
17958: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)
17959: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
17960: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17961: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
17962: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
17963: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);

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17964: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
17965: Procedure GetTransitionsOn( cChar : char; oStateList : TList)
17966: Procedure GetVisibleWindows( List : Tstrings)
17967: Procedure GoBegin
17968: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
17969: Procedure GotoCurrent( Table : TTable)
17970: procedure GotoEndClick(Sender: TObject);
17971: Procedure GotoNearest
17972: Procedure GradientFillCanvas(const ACanvas: TCanvas; const AStartCol, AEndCol: TColor; const ARect: TRect; const
Direction: TGradientDirection)
17973: Procedure HandleException( E : Exception; var Handled : Boolean)
17974: procedure HANDLEMESSAGE
17975: procedure HandleNeeded;
17976: Procedure Head( AURL : string)
17977: Procedure Help( var AHelpContents : TStringList; ACommand : String)
17978: Procedure HexToBinary( Stream : TStream)
17979: procedure HexToBinary(Stream:TStream)
17980: Procedure HideDragImage
17981: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
17982: Procedure HideTraybar
17983: Procedure HideWindowForSeconds(secs: integer); { //3 seconds}
17984: Procedure HideWindowForSeconds2(secs: integer; appHandle, aSelf: TForm); { //3 seconds}
17985: Procedure HookOSExceptions
17986: Procedure HookSignal( RtlSigNum : Integer)
17987: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
17988: Procedure HTMLEntax1Click( Sender : TObject)
17989: Procedure IFPS3ClassesPluginImport( Sender : TObject; x : TPSCompiler)
17990: Procedure IFPS3ClassesPluginExecImport( Sender : TObject; Exec : TPSEExec; x : TPSRuntimeClassImporter)
17991: Procedure ImportFromClipboard1Click( Sender : TObject)
17992: Procedure ImportFromClipboard2Click( Sender : TObject)
17993: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer)
17994: procedure Incb(var x: byte);
17995: Procedure IncludeClick( Sender : TObject)
17996: Procedure IncludeOFF; //preprocessing
17997: Procedure IncludeON;
17998: procedure InfoClick(Sender: TObject);
17999: Procedure InitAltRecBuffers( CheckModified : Boolean)
18000: Procedure InitContext( Request : TWebRequest; Response : TWebResponse)
18001: Procedure InitContext(TabstractWebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse)
18002: Procedure InitData( ASource : TDataSet)
18003: Procedure InitDelta( ADelta : TPacketDataSet);
18004: Procedure InitDelta( const ADelta : OleVariant);
18005: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse)
18006: Procedure Initialize
18007: procedure InitializePackage(Module: HMODULE)
18008: Procedure INITIACTION
18009: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
18010: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet)
18011: Procedure InitModule( AModule : TComponent)
18012: Procedure InitStdConvs
18013: Procedure InitTreeData( Tree : TUpdateTree)
18014: Procedure INSERT
18015: Procedure Insert( Index : Integer; AClass : TClass)
18016: Procedure Insert( Index : Integer; AComponent : TComponent)
18017: Procedure Insert( Index : Integer; AObject : TObject)
18018: Procedure Insert( Index : Integer; const S : WideString)
18019: Procedure Insert( Index : Integer; Image, Mask : TBitmap)
18020: Procedure Insert(Index: Integer; const S: string);
18021: procedure Insert(Index: Integer; S: string);
18022: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
18023: procedure InsertComponent(AComponent:TComponent)
18024: procedure InsertControl(AControl: TControl);
18025: Procedure InsertIcon( Index : Integer; Image : TIcon)
18026: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
18027: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
18028: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
18029: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
18030: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
18031: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
18032: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
18033: Procedure InternalBeforeResolve( Tree : TUpdateTree)
18034: Procedure InvalidateModuleCache
18035: Procedure InvalidateTitles
18036: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
18037: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
18038: Procedure InvalidDateTimeError(const AYear, AMonth, ADay, AHour, AMin, ASec, AMilSec:Word;const
ABaseDate:TDate)
18039: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADayOfWeek : Word)
18040: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word)
18041: procedure JavaSyntax1Click(Sender: TObject);
18042: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
18043: Procedure KillDataChannel
18044: Procedure Largefont1Click( Sender : TObject)
18045: Procedure LAST
18046: Procedure LaunchCpl( FileName : string)
18047: Procedure Launch( const AFile : string)
18048: Procedure LaunchFile( const AFile : string)
18049: Procedure LetFileList(FileList: TStringlist; apath: string);
18050: Procedure lineToNumber( xmemo : String; met : boolean)

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18051: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
18052:   DefaultDraw:Bool)
18053: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
18054:   : TCustDrawState; var DefaultDraw : Boolean)
18055: Procedure ListViewData( Sender : TObject; Item : TListItem )
18056: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
18057:   : TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
18058: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
18059: Procedure ListViewDblClick( Sender : TObject)
18060: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
18061: Procedure ListViewExports(const FileName: string; List: TStrings);
18062: Procedure Load( const WSDLFileName: WideString; Stream : TMemoryStream)
18063: procedure LoadByTecode1Click(Sender: TObject)
18064: procedure LoadFromFile(const AFileName : string)
18065: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
18066: Procedure LoadFromFile( const FileName : string)
18067: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE)
18068: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
18069: Procedure LoadFromFile( const FileName : WideString)
18070: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
18071: Procedure LoadFromFile(const AFileName: string)
18072: procedure LoadFromFile(FileName:String)
18073: procedure LoadFromFile(FileName:String)
18074: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
18075: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
18076: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
18077: Procedure LoadFromStream( const Stream : TStream)
18078: Procedure LoadFromStream( S : TStream)
18079: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18080: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18081: Procedure LoadFromStream( Stream : TStream)
18082: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOBTYPE : TBLOBTYPE)
18083: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
18084: procedure LoadFromStream(Stream: TStream);
18085: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
18086: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
18087: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
18088: Procedure LoadLastfile1Click( Sender : TObject)
18089: { LoadIconToImage loads two icons from resource named NameRes,
18090:   into two image lists ALarge and ASmall}
18091: Procedure LoadIconToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
18092: Procedure LoadMemo
18093: Procedure LoadParamsFromIniFile( FFileName : WideString)
18094: Procedure Lock
18095: Procedure Login
18096: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
18097: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
18098: Procedure MakeCaseInsensitive
18099: Procedure MakeDeterministic( var bChanged : boolean)
18100: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
18101: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
18102: Procedure MakeSound(Frequency, Duration: Int; Volume: TVolumeLevel; savefilePath: string);
18103: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration:Int;pinknoise:boolean;Volume:Byte);
18104: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
18105: Procedure SetRectComplexFormatStr( const S : string)
18106: Procedure SetPolarComplexFormatStr( const S : string)
18107: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
18108: Procedure MakeVisible
18109: Procedure MakeVisible( PartialOK : Boolean)
18110: Procedure ManualClick( Sender : TObject)
18111: Procedure MarkReachable
18112: Procedure maxBox; //shows the exe version data in a win box
18113: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
18114: Procedure Memo1Change( Sender : TObject)
18115: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var
18116:   Action:TSynReplaceAction)
18117: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
18118: procedure Memory1Click(Sender: TObject);
18119: Procedure MERGE( MENU : TMAINMENU)
18120: Procedure MergeChangeLog
18121: procedure MINIMIZE
18122: Procedure MinimizeMaxbox;
18123: Procedure MkDir(const s: string)
18124: Procedure MakeDir(const s: string)');
18125: Procedure ChangeDir(const s: string)');
18126: Function makeFile(const FileName: string): integer)';
18127: Procedure mnuPrintFont1Click( Sender : TObject)
18128: procedure ModalStarted
18129: Procedure Modified
18130: Procedure ModifyAlias( Name : string; List : TStrings)
18131: Procedure ModifyDriver( Name : string; List : TStrings)
18132: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
18133: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
18134: Procedure Move( CurIndex, NewIndex : Integer)
18135: procedure Move(CurIndex, NewIndex: Integer);

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18136: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
18137: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
18138: Procedure moveCube( o : TMyLabel )
18139: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
18140: procedure MoveTo(X, Y: Integer);
18141: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
18142: Procedure MovePoint(var x,y:Extended; const angle:Extended);
18143: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt );
18144: Procedure Multiplyl( Multiplier1 : TMyBigInt; Multiplier2 : Integer );
18145: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK );
18146: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
18147: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat )
18148: procedure New(P: PChar)
18149: procedure NewlClick(Sender: TObject);
18150: procedure NewInstanceClick(Sender: TObject);
18151: Procedure NEXT
18152: Procedure NextMonth
18153: Procedure Noop
18154: Procedure NormalizePath( var APath : string )
18155: procedure ObjectBinaryToText(Input, Output: TStream)
18156: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18157: procedure ObjectResourceToText( Input, Output: TStream )
18158: procedure ObjectResourceToText1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18159: procedure ObjectTextToBinary( Input, Output: TStream )
18160: procedure ObjectTextToBinary1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18161: procedure ObjectTextToResource( Input, Output: TStream )
18162: procedure ObjectTextToResource1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
18163: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean )
18164: Procedure Open( const UserID : WideString; const Password : WideString );
18165: Procedure Open;
18166: Procedure open1Click( Sender : TObject )
18167: Procedure OpenCdDrive
18168: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char )
18169: Procedure OpenCurrent
18170: Procedure OpenFile(vfilenamepath: string)
18171: Procedure OpenDirectory1Click( Sender : TObject )
18172: Procedure OpenDir(adir: string);
18173: Procedure OpenIndexFile( const IndexName : string )
18174: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const SchemaID:OleVariant;DataSet:TADODataset)
18175: Procedure OpenWriteBuffer( const AThreshold : Integer )
18176: Procedure OptimizeMem
18177: Procedure Options1( AURL : string );
18178: Procedure OutputDebugString(lpOutputString : PChar)
18179: Procedure PackBuffer
18180: Procedure Paint
18181: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean )
18182: Procedure PaintToTBitmap( Target : TBitmap )
18183: Procedure PaletteChanged
18184: Procedure ParentBiDiModeChanged
18185: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT )
18186: Procedure PasteFromClipboard;
18187: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer )
18188: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
18189: Procedure PerformEraseBackground(Control: TControl; DC: HDC );
18190: Procedure PError( Text : string )
18191: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18192: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer );
18193: Procedure Play( FromFrame, ToFrame : Word; Count : Integer )
18194: procedure playmp3(mp3path: string);
18195: Procedure PlayMP31Click( Sender : TObject )
18196: Procedure PointCopy( var Dest : TPoint; const Source : TPoint )
18197: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer )
18198: procedure PolyBezier(const Points: array of TPoint );
18199: procedure PolyBezierTo(const Points: array of TPoint );
18200: procedure Polygon(const Points: array of TPoint );
18201: procedure Polyline(const Points: array of TPoint );
18202: Procedure Pop
18203: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU;GROUPS: array of INT; var WIDTHS : array of LONGINT)
18204: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float )
18205: Procedure POPUP( X, Y : INTEGER )
18206: Procedure PopupURL(URL : WideString);
18207: Procedure POST
18208: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream );
18209: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream );
18210: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream );
18211: Procedure PostUser( const Email, FirstName, LastName : WideString )
18212: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean );
18213: procedure Pred(X: int64);
18214: Procedure Prepare
18215: Procedure PrepareStatement
18216: Procedure PreProcessXML( AList : TStrings )
18217: Procedure PreventDestruction
18218: Procedure Print( const Caption : string )
18219: procedure PrintBitmap(aGraphic: TGraphic; Title: string );
18220: procedure printf(const format: String; const args: array of const );
18221: Procedure PrintList(Value: TStringList );
18222: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
18223: Procedure Printout1Click( Sender : TObject )

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18224: Procedure ProcessHeaders
18225: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR )
18226: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean );
18227: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean );
18228: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean );
18229: Procedure ProcessMessagesOFF; //application.processmessages
18230: Procedure ProcessMessagesON;
18231: Procedure ProcessPath( const EditText:string; var Drive:Char; var DirPart:string; var FilePart : string )
18232: Procedure ProcessPath1( const EditText:string; var Drive:Char; var DirPart:string; var FilePart:string );
18233: Procedure Proclist Size is: 3797 /1415
18234: Procedure procMessClick( Sender : TObject )
18235: Procedure PSScriptCompile( Sender : TPSScript )
18236: Procedure PSScriptExecute( Sender : TPSScript )
18237: Procedure PSScriptLine( Sender : TObject )
18238: Procedure Push( ABoundary : string )
18239: procedure PushItem(AItem: Pointer)
18240: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream );
18241: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean );
18242: procedure PutLinuxLines(const Value: string)
18243: Procedure Quit
18244: Procedure RaiseConversionError( const AText : string );
18245: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const );
18246: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string );
18247: procedure RaiseException(Ex: TIEException; Param: String );
18248: Procedure RaiseExceptionForLastCmdResult;
18249: procedure RaiseLastException;
18250: procedure RaiseException2;
18251: Procedure RaiseException3(const Msg: string);
18252: Procedure RaiseExcept(const Msg: string);
18253: Procedure RaiseLastOSError
18254: Procedure RaiseLastWin32;
18255: procedure RaiseLastWin32Error)
18256: Procedure RaiseListError( const ATemplate : string; const AData : array of const );
18257: Procedure RandomFillStream( Stream : TMemoryStream )
18258: procedure randomize;
18259: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect )
18260: Procedure RCS
18261: Procedure Read( Socket : TSocket )
18262: Procedure ReadBlobData
18263: procedure ReadBuffer(Buffer:String;Count:LongInt)
18264: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2,readonly:= false;
18265: Procedure ReadSection( const Section : string; Strings : TStrings )
18266: Procedure ReadSections( Strings : TStrings )
18267: Procedure ReadSections( Strings : TStrings );
18268: Procedure ReadSections1( const Section : string; Strings : TStrings );
18269: Procedure ReadSectionValues( const Section : string; Strings : TStrings )
18270: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean )
18271: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer )
18272: Procedure ReadVersion2(aFileName: STRING; aVersion : TStrings );
18273: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
18274: Procedure Realign;
18275: procedure Rectangle(X1, Y1, X2, Y2: Integer);
18276: Procedure Rectangle1( const Rect : TRect );
18277: Procedure RectCopy( var Dest : TRect; const Source : TRect )
18278: Procedure RectFitToScreen( var R : TRect )
18279: Procedure RectGrow( var R : TRect; const Delta : Integer )
18280: Procedure RectGrowX( var R : TRect; const Delta : Integer )
18281: Procedure RectGrowY( var R : TRect; const Delta : Integer )
18282: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer )
18283: Procedure RectMoveTo( var R : TRect; const X, Y : Integer )
18284: Procedure RectNormalize( var R : TRect )
18285: // TFileCallbackProcedure = procedure(filename:string);
18286: Procedure RecurseDirectory( Dir: String; IncludeSubs: boolean; callback: TFileCallbackProcedure );
18287: Procedure RecurseDirectory2( Dir: String; IncludeSubs : boolean );
18288: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState )
18289: Procedure Refresh;
18290: Procedure RefreshData( Options : TFetchOptions )
18291: Procedure REFRESHLOOKUPLIST
18292: Procedure regExPathfinder(Pathin, fileout, firsttp, aregex, ext: string; asort: boolean );
18293: Procedure RegExPathfinder2(Pathin, fileout, firsttp, aregex, ext: string; asort, acopy: boolean );
18294: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIAuthenticationClass )
18295: Procedure RegisterChanges( Value : TChangeLink )
18296: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass )
18297: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass )
18298: Procedure RegisterFileFormat( Extension, AppID:string; Description:string; Executable:string; IconIndex:Int )
18299: Procedure ReInitialize( ADelay : Cardinal )
18300: procedure RELEASE
18301: Procedure Remove( const AByteCount : integer )
18302: Procedure REMOVE( FIELD : TFIELD )
18303: Procedure REMOVE( ITEM : TMENUITEM )
18304: Procedure REMOVE( POPUP : TPOPUPMENU )
18305: Procedure RemoveAllPasswords
18306: procedure RemoveComponent( AComponent:TComponent )
18307: Procedure RemoveDir( const ADirName : string )
18308: Procedure RemoveLambdaTransitions( var bChanged : boolean )
18309: Procedure REMOVEPARAM( VALUE : TPARAM )
18310: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset );
18311: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState );
18312: Procedure Rename( const ASourceFile, ADestFile : string )

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18313: Procedure Rename( const FileName : string; Reload : Boolean)
18314: Procedure RenameTable( const NewTableName : string)
18315: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
18316: Procedure ReplaceClick( Sender : TObject)
18317: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime)
18318: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime))
18319: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
18320: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
18321: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime)
18322: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
18323: Procedure Requery( Options : TExecuteOptions)
18324: Procedure Reset
18325: Procedure ResetClick( Sender : TObject)
18326: Procedure ResizeCanvas( XSize, YSize, XPos, YPos : Integer; Color : TColor)
18327: procedure ResourceExplore1Click(Sender: TObject);
18328: Procedure RestoreContents
18329: Procedure RestoreDefaults
18330: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
18331: Procedure RetrieveHeaders
18332: Procedure RevertRecord
18333: Procedure RGBAToBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
18334: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18335: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18336: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
18337: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
18338: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer)
18339: Procedure RleCompress2( Stream : TStream)
18340: Procedure RleDecompress2( Stream : TStream)
18341: Procedure RmDir(const S: string)
18342: Procedure Rollback
18343: Procedure Rollback( TransactionDesc : TTransactionDesc)
18344: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
18345: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)
18346: Procedure RollbackTrans
18347: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
18348: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
18349: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
18350: Procedure RunD1132Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
18351: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
18352: Procedure S_EBox( const AText : string)
18353: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int
18354: Procedure S_IBox( const AText : string)
18355: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
18356: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string)
18357: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
18358: Procedure SampleVarianceAndMean
18359: ( const X : TDynFloatArray; var Variance, Mean : Float)
18360: Procedure Save2Click( Sender : TObject)
18361: Procedure Saveas3Click( Sender : TObject)
18362: Procedure SavebeforeClick( Sender : TObject)
18363: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
18364: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18365: Procedure SaveConfigFile
18366: Procedure SaveOutput1Click( Sender : TObject)
18367: procedure SaveScreenshotClick(Sender: TObject);
18368: Procedure SaveLn(pathname, content: string); //Saveln(exepath+'mysavelntest.txt', memo2.text);
18369: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
18370: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
18371: Procedure SaveToFile( AfileName : string)
18372: Procedure SAVETOFILE( const FILENAME : String)
18373: Procedure SaveToFile( const FileName : WideString)
18374: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
18375: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
18376: procedure SaveToFile(FileName: string);
18377: procedure SaveToFile(FileName:String)
18378: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
18379: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18380: Procedure SaveToStream( S : TStream)
18381: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18382: Procedure SaveToStream( Stream : TStream)
18383: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
18384: procedure SaveToStream(Stream: TStream);
18385: procedure SaveToStream(Stream:TStream)
18386: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
18387: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
18388: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
18389: procedure Say(const sText: string)
18390: Procedure SBytecode1Click( Sender : TObject)
18391: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
18392: procedure ScriptExplorer1Click(Sender: TObject);
18393: Procedure Scroll( Distance : Integer)
18394: Procedure Scroll( DX, DY : Integer)
18395: procedure ScrollBy(DeltaX, DeltaY: Integer);
18396: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
18397: Procedure ScrollTabs( Delta : Integer)
18398: Procedure Search1Click( Sender : TObject)
18399: procedure SearchAndOpenDoc(vfilenamepath: string)
18400: procedure SearchAndOpenFile(vfilenamepath: string)

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18401: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
18402: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
18403: Procedure SearchNext1Click( Sender : TObject)
18404: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
18405: Procedure Select1( const Nodes : array of TTreeNode);
18406: Procedure Select2( Nodes : TList);
18407: Procedure SelectNext( Direction : Boolean)
18408: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
18409: Procedure SelfTestPEM //unit uPSI_CPEM
18410: Procedure Send( AMsg : TIdMessage)
18411: //config forst in const MAILINIFILE = 'maildef.ini';
18412: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','
18413: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18414: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18415: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
18416: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
18417: Procedure SendResponse
18418: Procedure SendStream( AStream : TStream)
18419: Procedure Set8087CW( NewCW : Word)
18420: Procedure SetAll( One, Two, Three, Four : Byte)
18421: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
18422: Procedure SetAppDispatcher( const ADispatcher : TComponent)
18423: procedure SetArrayLength;
18424: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
18425: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
18426: Procedure SetAsHandle( Format : Word; Value : THandle)
18427: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
18428: procedure SetCaptureControl(Control: TControl);
18429: Procedure SetColumnAttributes
18430: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
18431: Procedure SetCustomHeader( const Name, Value : string)
18432: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
18433: Procedure SetFMTBcd( Buffer : TRecordBuffer; value : TBcd)
18434: Procedure SetFocus
18435: procedure SetFocus; virtual;
18436: Procedure SetInitialState
18437: Procedure SetKey
18438: procedure SetLastError(ErrorCode: Integer)
18439: procedure SetLength;
18440: Procedure SetLineBreakStyle( var T : Text; Style : TTTextLineBreakStyle)
18441: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
18442: Procedure SetParams( ADataset : TDataset; UpdateKind : TUpdateKind);
18443: procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
18444: Procedure SetParams1( Updatekind : TUpdateKind);
18445: Procedure SetPassword( const Password : string)
18446: Procedure SetPointer( Ptr : Pointer; Size : Longint)
18447: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
18448: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
18449: Procedure SetProvider( Provider : TComponent)
18450: Procedure SetProxy( const Proxy : string)
18451: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
18452: Procedure SetRange( const StartValues, EndValues : array of const)
18453: Procedure SetRangeEnd
18454: Procedure SetRate( const aPercent, aYear : integer)
18455: procedure SetRate(const aPercent, aYear: integer)
18456: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
18457: Procedure SetsafeCallExceptionMsg( Msg : String)
18458: procedure SETSELTEXTBUF(BUFFER:PCHAR)
18459: Procedure SetSize( AWidth, AHeight : Integer)
18460: procedure SetSize(NewSize:LongInt)
18461: procedure SetString(var s: string; buffer: PChar; len: Integer)
18462: Procedure SetStrings( List : TStrings)
18463: Procedure SetText( Text : PwideChar)
18464: procedure SetText(Text: Pchar);
18465: Procedure SetTextBuf( Buffer : PChar)
18466: procedure SETTEXTBUF(BUFFER:PCHAR)
18467: Procedure SetTick( Value : Integer)
18468: Procedure SetTimeout( ATimeOut : Integer)
18469: Procedure SetTraceEvent( Event : TDBXTraceEvent)
18470: Procedure SetUserName( const UserName : string)
18471: Procedure SetWallpaper( Path : string);
18472: procedure ShellStyle1Click(Sender: TObject);
18473: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
18474: Procedure ShowFileProperties( const FileName : string)
18475: Procedure ShowInclude1Click( Sender : TObject)
18476: Procedure ShowInterfaces1Click( Sender : TObject)
18477: Procedure ShowLastException1Click( Sender : TObject)
18478: Procedure ShowMessage( const Msg : string)
18479: Procedure ShowMessageBig(const aText : string);
18480: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
18481: Procedure ShowMessageBig3(const aText : string; fsize: byte; aaautosize: boolean);
18482: Procedure MsgBig(const aText : string); //alias
18483: procedure showmessage(mytext: string);
18484: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
18485: procedure ShowMessageFmt(const Msg: string; Params: array of const))
18486: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
18487: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
18488: Procedure ShowSearchDialog( const Directory : string)

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18489: Procedure ShowSpecChars1Click( Sender : TObject )
18490: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
18491: Procedure ShredFile( const FileName : string; Times : Integer )
18492: procedure Shuffle(vQ: TStringList);
18493: Procedure ShuffleList( var List : array of Integer; Count : Integer )
18494: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState )
18495: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended )
18496: Procedure SinCose( X : Extended; out Sin, Cos : Extended )
18497: Procedure Site( const ACommand : string )
18498: Procedure SkipEOL
18499: Procedure Sleep( ATime : cardinal )
18500: Procedure Sleep( milliseconds : Cardinal )
18501: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL ) : DWORD
18502: Procedure Slinenumbers1Click( Sender : TObject )
18503: Procedure Sort
18504: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
18505: procedure Speak(const sText: string) //async like voice
18506: procedure Speak2(const sText: string) //sync
18507: procedure Split(Str: string; SubStr: string; List: TStrings);
18508: Procedure SplitNameValuePair( const Line : string; var Name, Value : string )
18509: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String )
18510: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String )
18511: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings )
18512: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String )
18513: procedure SQLSyntax1Click(Sender: TObject);
18514: Procedure SRand( Seed : RNG_IntType )
18515: Procedure Start
18516: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean )
18517: procedure StartFileFinder3(spath,aext,searchstr: string; arecurativ: boolean; reslist: TStringlist);
18518: //Ex. StartFileFinder3(exepath+'exercices','*.pas','record',false,seclist);
18519: Procedure StartTransaction( TransDesc : TTransactionDesc )
18520: Procedure Status( var AStatusList : TStringList )
18521: Procedure StatusBar1DblClick( Sender : TObject )
18522: Procedure StepInto1Click( Sender : TObject )
18523: Procedure StepIt
18524: Procedure StepOut1Click( Sender : TObject )
18525: Procedure Stop
18526: procedure stopmp3;
18527: procedure StartWeb(aurl: string);
18528: Procedure Str(integer; astr: string); //of system
18529: Procedure StrDispose( Str : PChar )
18530: procedure StrDispose(Str: PChar)
18531: Procedure StrReplace(var Str: String; Old, New: String);
18532: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean )
18533: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic );
18534: Procedure StringToBytes( Value : String; Bytes : array of byte )
18535: procedure StrSet(c : Char; I : Integer; var s : String );
18536: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings );
18537: Procedure StructureMount( APath : String )
18538: procedure STYLECHANGED(SENDER:TOBJECT)
18539: Procedure Subselect( Node : TTreeNode; Validate : Boolean )
18540: procedure Succ(X: int64);
18541: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended )
18542: procedure SwapChar(var X,Y: char); //swapX follows
18543: Procedure SwapFloats( var X, Y : Float )
18544: procedure SwapGrid(grd: TStringGrid);
18545: Procedure SwapOrd( var I, J : Byte );
18546: Procedure SwapOrd( var X, Y : Integer )
18547: Procedure SwapOrd1( var I, J : Shortint );
18548: Procedure SwapOrd2( var I, J : Smallint );
18549: Procedure SwapOrd3( var I, J : Word );
18550: Procedure SwapOrd4( var I, J : Integer );
18551: Procedure SwapOrd5( var I, J : Cardinal );
18552: Procedure SwapOrd6( var I, J : Int64 );
18553: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
18554: Procedure Synchronize1( Method : TMethod );
18555: procedure SyntaxCheck1Click(Sender: TObject);
18556: Procedure SysFreeString(const S: WideString); stdcall;
18557: Procedure TakeOver( Other : TLinearBitmap )
18558: Procedure TalkIn(const sText: string) //async voice
18559: procedure tbtn6resClick(Sender: TObject);
18560: Procedure tbtnUseCaseClick( Sender : TObject )
18561: procedure TerminalStyle1Click(Sender: TObject );
18562: Procedure Terminate
18563: Procedure texSyntax1Click( Sender : TObject )
18564: procedure TextOut(X, Y: Integer; Text: string);
18565: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string );
18566: procedure TextRect1(Rect: TRect; X: Integer; Y: Integer; const Text: string);
18567: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat );
18568: Procedure TextStart
18569: procedure TILE
18570: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte )
18571: Procedure TitleClick( Column : TColumn )
18572: Procedure ToDo
18573: procedure tooltnTutorialClick(Sender: TObject );
18574: Procedure Trace1( AURL : string; const AResponseContent : TStream );
18575: Procedure TransferMode( ATransferMode : TIIdFTPTTransferMode )
18576: Procedure Truncate
18577: procedure Tutorial101Click(Sender: TObject );

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18578: procedure Tutorial10Statistics1Click(Sender: TObject);
18579: procedure Tutorial11Forms1Click(Sender: TObject);
18580: procedure Tutorial12SQL1Click(Sender: TObject);
18581: Procedure tutorial1Click( Sender : TObject )
18582: Procedure tutorial21Click( Sender : TObject )
18583: Procedure tutorial31Click( Sender : TObject )
18584: Procedure tutorial4Click( Sender : TObject )
18585: Procedure Tutorial5Click( Sender : TObject )
18586: procedure Tutorial6Click(Sender: TObject);
18587: procedure Tutorial91Click(Sender: TObject);
18588: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean )
18589: procedure UniqueString(var str: AnsiString)
18590: procedure UnloadLoadPackage(Module: HMODULE)
18591: Procedure Unlock
18592: Procedure UNMERGE( MENU : TMAINMENU )
18593: Procedure UnRegisterChanges( Value : TChangeLink )
18594: Procedure UnregisterConversionFamily( const AFamily : TConvFamily )
18595: Procedure UnregisterConversionType( const AType : TConvType )
18596: Procedure UnRegisterProvider( Prov : TCustomProvider )
18597: Procedure UPDATE
18598: Procedure UpdateBatch( AffectRecords : TAffectRecords )
18599: Procedure UPDATECURSORPOS
18600: Procedure UpdateFile
18601: Procedure UpdateItems( FirstIndex, LastIndex : Integer )
18602: Procedure UpdateResponse( AResponse : TWebResponse )
18603: Procedure UpdateScrollBar
18604: Procedure UpdateView1Click( Sender : TObject )
18605: procedure Val(const s: string; var n, z: Integer)
18606: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
18607: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd );
18608: Procedure VariantAdd( const src : Variant; var dst : Variant )
18609: Procedure VariantAnd( const src : Variant; var dst : Variant )
18610: Procedure VariantArrayRedim( var V : Variant; High : Integer )
18611: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer )
18612: Procedure VariantClear( var V : Variant )
18613: Procedure VariantCpy( const src : Variant; var dst : Variant )
18614: Procedure VariantDiv( const src : Variant; var dst : Variant )
18615: Procedure VariantMod( const src : Variant; var dst : Variant )
18616: Procedure VariantMul( const src : Variant; var dst : Variant )
18617: Procedure VariantOr( const src : Variant; var dst : Variant )
18618: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer );
18619: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer );
18620: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer );
18621: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer );
18622: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer );
18623: Procedure VariantShl( const src : Variant; var dst : Variant )
18624: Procedure VariantShr( const src : Variant; var dst : Variant )
18625: Procedure VariantSub( const src : Variant; var dst : Variant )
18626: Procedure VariantXor( const src : Variant; var dst : Variant )
18627: Procedure VarCastError;
18628: Procedure VarCastError1( const ASourceType, ADestType : TVarType );
18629: Procedure VarInvalidOp
18630: Procedure VarInvalidNullOp
18631: Procedure VarOverflowError( const ASourceType, ADestType : TVarType )
18632: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType )
18633: Procedure VarArrayCreateError
18634: Procedure VarResultCheck( AResult : HRESULT );
18635: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType );
18636: Procedure HandleConversionException( const ASourceType, ADestType : TVarType )
18637: Function VarTypeAsText( const AType : TVarType ) : string
18638: procedure Voice(const sText: string) //async
18639: procedure Voice2(const sText: string) //sync
18640: Procedure WaitMilliseconds( AMSec : word )
18641: Procedure WaitMS( AMSec : word );
18642: procedure WebCamPic(picname: string); //eg: c:\mypic.png
18643: Procedure WideAppend( var dst : WideString; const src : WideString )
18644: Procedure WideAssign( var dst : WideString; var src : WideString )
18645: Procedure WideDelete( var dst : WideString; index, count : Integer )
18646: Procedure WideFree( var s : WideString )
18647: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString )
18648: Procedure WideFromPChar( var dst : WideString; src : PChar )
18649: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer )
18650: Procedure WideSetLength( var dst : WideString; len : Integer )
18651: Procedure WideString2Stream( aWideString : WideString; oStream : TStream )
18652: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte )
18653: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float )
18654: Procedure WinInet_HttpGet( const Url: string; Stream:TStream );
18655: Procedure HttpGet(const Url: string; Stream:TStream);
18656: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIBytes; Index : integer )
18657: Procedure WordWrap1Click( Sender : TObject )
18658: Procedure Write( const AOut : string )
18659: Procedure Write( Socket : TSocket )
18660: procedure Write(S: string);
18661: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream )
18662: Procedure WriteBool( const Section, Ident : string; Value : Boolean )
18663: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean )
18664: procedure WriteBuffer(Buffer:String;Count:LongInt)
18665: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean )
18666: Procedure WriteChar( AValue : Char )

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18667: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
18668: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
18669: Procedure WriteFloat( const Section, Name : string; Value : Double)
18670: Procedure WriteHeader( AHeader : TStrings)
18671: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
18672: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
18673: Procedure WriteLn( const AOut : string)
18674: procedure Writeln(s: string);
18675: Procedure WriteLog( const FileName, LogLine : string)
18676: Procedure WriteRFCReply( AReply : TIdRFCReply)
18677: Procedure WriteRFCStrings( AStrings : TStrings)
18678: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
18679: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASize:Int)
18680: Procedure WriteString( const Section, Ident, Value : String)
18681: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
18682: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
18683: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
18684: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18685: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18686: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String)');
18687: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
18688: procedure XMLSyntax1Click(Sender: TObject);
18689: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
18690: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
18691: Procedure ZeroFillStream( Stream : TMemoryStream)
18692: procedure XMLSyntax1Click(Sender: TObject);
18693: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
18694: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
18695: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
18696: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
18697: procedure(Sender, Source: TObject; X, Y: Integer)
18698: procedure(Sender, Target: TObject; X, Y: Integer)
18699: procedure(Sender: TObject; ASection, AWidth: Integer)
18700: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
18701: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
18702: procedure(Sender: TObject; var Action: TCcloseAction)
18703: procedure(Sender: TObject; var CanClose: Boolean)
18704: procedure(Sender: TObject; var Key: Char);
18705: ProcedureName ProcedureNames ProcedureParametersCursor @
18706:
18707: *****Now Constructors constructor *****
18708: Size is: 1248 1115 996 628 550 544 501 459 (381)
18709: Attach( VersionInfoData : Pointer; Size : Integer)
18710: constructor Create( ABuckets : TBucketListSizes)
18711: Create( ACallBackWnd : HWND)
18712: Create( AClient : TCustomTaskDialog)
18713: Create( AClient : TIdTelnet)
18714: Create( ACollection : TCollection)
18715: Create( ACollection : TFavoriteLinkItems)
18716: Create( ACollection : TTaskDialogButtons)
18717: Create( AConnection : TIdCustomHTTP)
18718: Create( ACreatSuspended : Boolean)
18719: Create( ADataSet : TCustomSQLDataSet)
18720: CREATE( ADATASET : TDATASET)
18721: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
18722: Create( AGrid : TCustomDBGrid)
18723: Create( AGrid : TStringGrid; AIndex : Longint)
18724: Create( AHHTTP : TIdCustomHTTP)
18725: Create( AListItems : TListItems)
18726: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
18727: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
18728: Create( AOwner : TCommonCalendar)
18729: Create( AOwner : TComponent)
18730: CREATE( AOWNER : TCOMPONENT)
18731: Create( AOwner : TCustomListView)
18732: Create( AOwner : TCustomOutline)
18733: Create( AOwner : TCustomRichEdit)
18734: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
18735: Create( AOwner : TCustomTreeView)
18736: Create( AOwner : TIdUserManager)
18737: Create( AOwner : TListItems)
18738: Create(AOwner:TObj;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvt:TBDECallbkEvt;Chain:Bool)
18739: CREATE( AOWNER : TPERSISTENT)
18740: Create( AOwner : TPersistent)
18741: Create( AOwner : TTable)
18742: Create( AOwner : TTreeNodes)
18743: Create( AOwner : TWinControl; const ClassName : string)
18744: Create( APARENT : TIdCustomHTTP)
18745: Create( APARENT : TUpdateTree; AResolver : TCustomResolver)
18746: Create( AProvider : TBaseProvider)
18747: Create( AProvider : TCustomProvider);
18748: Create( AProvider : TDataSetProvider)
18749: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
18750: Create( ASocket : TSocket)
18751: Create( AStrings : TWideStrings)
18752: Create( AToolBar : TToolBar)
18753: Create( ATreeNodes : TTreeNodes)
18754: Create( Autofill : boolean)
18755: Create( AWebPageInfo : TABSTRACTWebPageInfo)

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18756: Create( AWebRequest : TWebRequest)
18757: Create( Collection : TCollection)
18758: Create( Collection : TIdMessageParts; ABody : TStrings)
18759: Create( Collection : TIdMessageParts; const AFileName : TFileName)
18760: Create( Column : TColumn)
18761: Create( const AConvFamily : TConvFamily; const ADescription : string)
18762: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
18763: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc)
18764: Create( const AInitialState : Boolean; const AManualReset : Boolean)
18765: Create( const ATabSet : TTabSet)
18766: Create( const Compensate : Boolean)
18767: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
18768: Create( const FileName : string)
18769: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes)
18770: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
18771: Create( const MaskValue : string)
18772: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
18773: Create( const Prefix : string)
18774: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
18775: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18776: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18777: Create( CoolBar : TCoolBar)
18778: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
18779: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
18780: Create( DataSet : TDataSet; const
  Text:WideString;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : WideString;
  DepFields : TBits; FieldMap : TFieldMap)
18781: Create( DBCtrlGrid : TDBCtrlGrid)
18782: Create( DSTableProducer : TDSTableProducer)
18783: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
18784: Create( ErrorCode : DBIResult)
18785: Create( Field : TBlobField; Mode : TBlobStreamMode)
18786: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
18787: Create( HeaderControl : TCustomHeaderControl)
18788: Create( HTTPRequest : TWebRequest)
18789: Create( iStart : integer; sText : string)
18790: Create( iValue : Integer)
18791: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
18792: Create( MciErrNo : MCIERROr; const Msg : string)
18793: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
18794: Create( Message : string; ErrorCode : DBResult)
18795: Create( Msg : string)
18796: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
18797: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
18798: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
18799: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
18800: Create(oSource:TniRegularExpressionState;oDestination:TniRegularExpression;xCharacts:TCharSet;bLambda:bool)
18801: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
18802: Create( Owner : TCustomComboBoxEx)
18803: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS)
18804: Create( Owner : TPersistent)
18805: Create( Params : TStrings)
18806: Create( Size : Cardinal)
18807: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
18808: Create( StatusBar : TCustomStatusBar)
18809: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
18810: Create(WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
18811: Create(AHandle:Integer)
18812: Create(AOwner: TComponent); virtual;
18813: Create(const AURI : string)
18814: Create(FileName:String;Mode:Word)
18815: Create(Instance:THandle;ResName:String;ResType:PChar)
18816: Create(Stream : TStream)
18817: Create( ADataset : TDataset);
18818: Create( const FileHandle:THandle;const Name:string;Protect:Cardinal;const MaximumSize:Int64;const
  SecAttr:PSecurityAttributes);
18819: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
18820: Create2( Other : TObject);
18821: CreateAt(FileMap : TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
18822: CreateError(const anErrorCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
18823: CreateFmt( MciErrNo : MCIERROr; const Msg : string; const Args : array of const)
18824: CreateFromId(Instance:THandle;Resid:Integer;ResType:PChar)
18825: CreateLinked( DBCtrlGrid : TDBCtrlGrid)
18826: CREATE(OWNER:TCOMPONENT; Dummy: Integer)
18827: CreateRes( Ident : Integer);
18828: CreateRes( MciErrNo : MCIERROr; Ident : Integer)
18829: CreateRes( ResStringRec : PResStringRec);
18830: CreateResHelp( Ident : Integer; AHelpContext : Integer);
18831: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
18832: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
18833: CreateSize( AWidth, AHeight : Integer)
18834: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
18835:
18836: -----
18837: unit UPSI_MathMax;
18838: -----
18839: CONSTS

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18840: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
18841: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
18842: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
18843: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
18844: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
18845: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
18846: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
18847: PiJ: Float = 3.1415926535897932384626433832795; // PI
18848: PI: Extended = 3.1415926535897932384626433832795; // PI
18849: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
18850: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
18851: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
18852: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
18853: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
18854: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
18855: Sqrt10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
18856: Sqrtpi: Float = 1.7724538509055160272981674833411; // Sqrt(PI)
18857: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
18858: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
18859: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
18860: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
18861: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
18862: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
18863: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
18864: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
18865: LogPi: Float = 0.4971498726941338543512682882909; // Log10(PI)
18866: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
18867: E: Float = 2.7182818284590452353602874713527; // Natural constant
18868: Ln2Pi: Float = 0.9189385320467274178032973640562; // Ln(2*PI)/2
18869: Inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
18870: TwoToPower63: Float = 9223372036854775808.0; // 2^63
18871: GoldenMean: Float = 1.6180339887498948204586834365638; // GoldenMean
18872: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
18873: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
18874: StDelta : Extended = 0.00001; {delta for difference equations}
18875: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
18876: StMaxIterations : Integer = 100; {max attempts for convergence}
18877:
18878: procedure SIRegister_StdConvs(CL: TPSPascalCompiler);
18879: begin
18880:   MetersPerInch = 0.0254; // [1]
18881:   MetersPerFoot = MetersPerInch * 12;
18882:   MetersPerYard = MetersPerFoot * 3;
18883:   MetersPerMile = MetersPerFoot * 5280;
18884:   MetersPerNauticalMiles = 1852;
18885:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
18886:   MetersPerLightSecond = 2.99792458E8; // [5]
18887:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [6]
18888:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
18889:   MetersPerCubit = 0.4572; // [6][7]
18890:   MetersPerFathom = MetersPerFoot * 6;
18891:   MetersPerFurlong = MetersPerYard * 220;
18892:   MetersPerHand = MetersPerInch * 4;
18893:   MetersPerPace = MetersPerInch * 30;
18894:   MetersPerRod = MetersPerFoot * 16.5;
18895:   MetersPerChain = MetersPerRod * 4;
18896:   MetersPerLink = MetersPerChain / 100;
18897:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
18898:   MetersPerPica = MetersPerPoint * 12;
18899:
18900:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
18901:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
18902:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
18903:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
18904:   SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
18905:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
18906:
18907:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
18908:   CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
18909:   CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
18910:   CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
18911:   CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
18912:   CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
18913:   CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
18914:   CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
18915:
18916:   CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
18917:   CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
18918:   CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
18919:   CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
18920:   CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
18921:   CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
18922:   CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
18923:   CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
18924:
18925:   CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
18926:   CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
18927:   CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
18928:   CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;

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18929: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
18930: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
18931:
18932: CubicMetersPerUKGallon = 0.00454609; // [2][7]
18933: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
18934: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
18935: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
18936: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
18937: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
18938: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
18939: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
18940: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
18941:
18942: GramsPerPound = 453.59237; // [1][7]
18943: GramsPerDrams = GramsPerPound / 256;
18944: GramsPerGrains = GramsPerPound / 7000;
18945: GramsPerTons = GramsPerPound * 2000;
18946: GramsPerLongTons = GramsPerPound * 2240;
18947: GramsPerOunces = GramsPerPound / 16;
18948: GramsPerStones = GramsPerPound * 14;
18949:
18950: MaxAngle 9223372036854775808.0;
18951: MaxTanh 5678.2617031470719747459655389854);
18952: MaxFactorial( 1754);
18953: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
18954: MinFloatingPoint'(3.3621031431120935062626778173218E-4932);
18955: MaxTanH( 354.89135644669199842162284618659);
18956: MaxFactorial'LongInt'( 170);
18957: MaxFloatingPointD(1.797693134862315907729305190789E+308);
18958: MinFloatingPointD(2.2250738585072013830902327173324E-308);
18959: MaxTanH( 44.361419555836499802702855773323);
18960: MaxFactorial'LongInt'( 33);
18961: MaxFloatingPoints( 3.4028236692093846346337460743177E+38);
18962: MinFloatingPoints( 1.1754943508222875079687365372222E-38);
18963: PiExt( 3.1415926535897932384626433832795);
18964: RatioDegToRad( PiExt / 180.0);
18965: RatioGradToRad( PiExt / 200.0);
18966: RatioDegToGrad( 200.0 / 180.0);
18967: RatioGradToDeg( 180.0 / 200.0);
18968: Crc16PolynomCCITT'LongWord $1021);
18969: Crc16PolynomIBM'LongWord $8005);
18970: Crc16Bits'LongInt'( 16);
18971: Crc16Bytes'LongInt'( 2);
18972: Crc16HighBit'LongWord $8000);
18973: NotCrc16HighBit', 'LongWord $7FFF);
18974: Crc32PolynomIEEE', 'LongWord $04C11DB7);
18975: Crc32PolynomCastagnoli', 'LongWord $1EDC6F41);
18976: Crc32Koopman', 'LongWord $741B8CD7);
18977: Crc32Bits', 'LongInt'( 32);
18978: Crc32Bytes', 'LongInt'( 4);
18979: Crc32HighBit', 'LongWord $80000000);
18980: NotCrc32HighBit', 'LongWord $7FFFFFFF);
18981:
18982: MinByte      = Low(Byte);
18983: MaxByte      = High(Byte);
18984: MinWord      = Low(Word);
18985: MaxWord      = High(Word);
18986: MinShortInt  = Low(ShortInt);
18987: MaxShortInt  = High(ShortInt);
18988: MinSmallInt  = Low(SmallInt);
18989: MaxSmallInt  = High(SmallInt);
18990: MinLongWord   = LongWord(Low(LongWord));
18991: MaxLongWord   = LongWord(High(LongWord));
18992: MinLongInt   = LongInt(Low(LongInt));
18993: MaxLongInt   = LongInt(High(LongInt));
18994: MinInt64     = Int64(Low(Int64));
18995: MaxInt64     = Int64(High(Int64));
18996: MinInteger   = Integer(Low(Integer));
18997: MaxInteger   = Integer(High(Integer));
18998: MinCardinal  = Cardinal(Low(Cardinal));
18999: MaxCardinal  = Cardinal(High(Cardinal));
19000: MinNativeUInt = NativeUInt(Low(NativeUInt));
19001: MaxNativeUInt = NativeUInt(High(NativeUInt));
19002: MinNativeInt  = NativeInt(Low(NativeInt));
19003: MaxNativeInt  = NativeInt(High(NativeInt));
19004: Function CosH( const Z : Float) : Float;
19005: Function SinH( const Z : Float) : Float;
19006: Function TanH( const Z : Float) : Float;
19007:
19008:
19009: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
19010: InvLn2       = 1.44269504088896340736; { 1/Ln(2) }
19011: InvLn10      = 0.43429448190325182765; { 1/Ln(10) }
19012: TwoPi        = 6.28318530717958647693; { 2*Pi }
19013: PiDiv2       = 1.57079632679489661923; { Pi/2 }
19014: SqrtPi       = 1.77245385090551602730; { Sqrt(Pi) }
19015: Sqrt2Pi      = 2.50662827463100050242; { Sqrt(2*pi) }
19016: InvSqrt2Pi   = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
19017: LnSqrt2Pi    = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }

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19018: Ln2PiDiv2 = 0.91893853320467274178; { Ln(2*Pi)/2 }
19019: Sqrt2 = 1.41421356237309504880; { Sqrt(2) }
19020: Sqrt2Div2 = 0.70710678118654752440; { Sqrt(2)/2 }
19021: Gold = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
19022: CGold = 0.38196601125010515179; { 2 - GOLD }
19023: MachEpsilon = 2.220446049250313E-16; { 2^{(-52)} }
19024: MaxNum = 1.797693134862315E+308; { 2^{1024} }
19025: MinNum = 2.225073858507202E-308; { 2^{(-1022)} }
19026: MaxLog = 709.7827128933840;
19027: MinLog = -708.3964185322641;
19028: MaxFac = 170;
19029: MaxGam = 171.624376956302;
19030: MaxLgm = 2.556348E+305;
19031: SingleCompareDelta = 1.0E-34;
19032: DoubleCompareDelta = 1.0E-280;
19033: { $IFDEF CLR }
19034: ExtendedCompareDelta = DoubleCompareDelta;
19035: { $ELSE }
19036: ExtendedCompareDelta = 1.0E-4400;
19037: { $ENDIF }
19038: Bytes1KB = 1024;
19039: Bytes1MB = 1024 * Bytes1KB;
19040: Bytes1GB = 1024 * Bytes1MB;
19041: Bytes64KB = 64 * Bytes1KB;
19042: Bytes64MB = 64 * Bytes1MB;
19043: Bytes2GB = 2 * LongWord(Bytes1GB);
19044: clBlack32', $FF000000 );
19045: clDimGray32', $FF3F3F3F );
19046: clGray32', $FF7F7F7F );
19047: clLightGray32', $FFFBFBFB );
19048: clWhite32', $FFFFFFFF );
19049: clMaroon32', $FF7F0000 );
19050: clGreen32', $FF007F00 );
19051: clOlive32', $FF7F7F00 );
19052: clNavy32', $FF00007F );
19053: clPurple32', $FF7F007F );
19054: clTeal32', $FF007F7F );
19055: clRed32', $FFFF0000 );
19056: clLime32', $FF00FF00 );
19057: clYellow32', $FFFFFF00 );
19058: clBlue32', $FF0000FF );
19059: clFuchsia32', $FFFF00FF );
19060: clAqua32', $FF00FFFF );
19061: clAliceBlue32', $FFFOF8FF );
19062: clAntiqueWhite32', $FFFAEBD7 );
19063: clAquamarine32', $FF7FFFD4 );
19064: clAzure32', $FFF0FFFF );
19065: clBeige32', $FFF5F5DC );
19066: clBisque32', $FFFFFFE4C4 );
19067: clBlancheDAlmond32', $FFFFFEBCD );
19068: clBlueViolet32', $FF8A2BE2 );
19069: clBrown32', $FFA52A2A );
19070: clBurlyWood32', $FFDEB887 );
19071: clCadetblue32', $FF5F9EA0 );
19072: clChartreuse32', $FF7FFF00 );
19073: clChocolate32', $FFD2691E );
19074: clCoral32', $FFFF7F50 );
19075: clCornFlowerBlue32', $FF6495ED );
19076: clCornSilk32', $FFFFF8DC );
19077: clCrimson32', $FFDC143C );
19078: clDarkBlue32', $FF00008B );
19079: clDarkCyan32', $FF008B8B );
19080: clDarkGoldenRod32', $FFB8860B );
19081: clDarkGray32', $FFA9A9A9 );
19082: clDarkGreen32', $FF006400 );
19083: clDarkGrey32', $FFA9A9A9 );
19084: clDarkKhaki32', $FFBDB76B );
19085: clDarkMagenta32', $FF8B008B );
19086: clDarkOliveGreen32', $FF556B2F );
19087: clDarkOrange32', $FFFFF8C00 );
19088: clDarkOrchid32', $FF9932CC );
19089: clDarkRed32', $FF8B0000 );
19090: clDarkSalmon32', $FFE9967A );
19091: clDarkSeaGreen32', $FF8FBBC8F );
19092: clDarkSlateBlue32', $FF483D8B );
19093: clDarkSlateGray32', $FF2F4F4F );
19094: clDarkSlateGrey32', $FF2F4F4F );
19095: clDarkTurquoise32', $FF00CED1 );
19096: clDarkViolet32', $FF9400D3 );
19097: clDeepPink32', $FFFFF1493 );
19098: clDeepSkyBlue32', $FF00BFFF );
19099: clDodgerBlue32', $FF1E90FF );
19100: clFireBrick32', $FFB22222 );
19101: clFloralWhite32', $FFFFFA00 );
19102: clGainsboro32', $FFDCDCDC );
19103: clGhostWhite32', $FFF8F8FF );
19104: clGold32', $FFFFD700 );
19105: clGoldenRod32', $FFDAAD50 );
19106: clGreenYellow32', $FFADFFF2F );

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19107: clGrey32', $FF808080 ));
19108: clHoneyDew32', $FFF0FFF0 ));
19109: clHotPink32', $FFFF69B4 ));
19110: clIndianRed32', $FFCD5C5C ));
19111: clIndigo32', $FF4B0082 ));
19112: clIvory32', $FFFFFFF0 ));
19113: clKhaki32', $FFF0E68C ));
19114: clLavender32', $FFE6E6FA ));
19115: clLavenderBlush32', $FFFFF0F5 ));
19116: clLawnGreen32', $FF7CFC00 ));
19117: clLemonChiffon32', $FFFFFFACD ));
19118: clLightBlue32', $FFADD8E6 ));
19119: clLightCoral32', $FFF08080 ));
19120: clLightCyan32', $FFE0FFFF ));
19121: clLightGoldenRodYellow32', $FFFFAFAAD2 ));
19122: clLightGreen32', $FF90EE90 ));
19123: clLightGrey32', $FFD3D3D3 ));
19124: clLightPink32', $FFFFB6C1 ));
19125: clLightSalmon32', $FFFA07A ));
19126: clLightSeagreen32', $FF20B2AA ));
19127: clLightSkyblue32', $FF87CEFA ));
19128: clLightSlategray32', $FF778899 ));
19129: clLightSlategrey32', $FF778899 ));
19130: clLightSteelblue32', $FFB0C4DE ));
19131: clLightYellow32', $FFFFFFE0 ));
19132: clLtGray32', $FFC0C0C0 ));
19133: clMedGray32', $FFA0A0A4 ));
19134: clDkGray32', $FF808080 ));
19135: clMoneyGreen32', $FFC0DCC0 ));
19136: clLegacySkyBlue32', $FFA6CAF0 ));
19137: clCream32', $FFFFFFBF0 ));
19138: clLimeGreen32', $FF32CD32 ));
19139: clLinen32', $FFFAF0E6 ));
19140: clMediumAquamarine32', $FF66CDAA ));
19141: clMediumBlue32', $FF0000CD ));
19142: clMediumOrchid32', $FFBA55D3 ));
19143: clMediumPurple32', $FF9370DB ));
19144: clMediumSeaGreen32', $FF3CB371 ));
19145: clMediumSlateBlue32', $FF7B68EE ));
19146: clMediumSpringGreen32', $FF00FA9A ));
19147: clMediumTurquoise32', $FF48D1CC ));
19148: clMediumVioletRed32', $FFC71585 ));
19149: clMidnightBlue32', $FF191970 ));
19150: clMintCream32', $FFF5FFFA ));
19151: clMistyRose32', $FFFFFFE4E1 ));
19152: clMoccasin32', $FFFFFFE4B5 ));
19153: clNavajoWhite32', $FFFFDEAD ));
19154: clOldLace32', $FFFD65E6 ));
19155: clOliveDrab32', $FF6B8E23 ));
19156: clOrange32', $FFFFFFA500 ));
19157: clOrangeRed32', $FFFF4500 ));
19158: clOrchid32', $FFDA70D6 ));
19159: clPaleGoldenRod32', $FFEEE8AA ));
19160: clPaleGreen32', $FF98FB98 ));
19161: clPaleTurquoise32', $FFAFEEEE ));
19162: clPaleVioletred32', $FFDB7093 ));
19163: clPapayaWhip32', $FFFFFFFD5 ));
19164: clPeachPuff32', $FFFFFFDAB9 ));
19165: clPeru32', $FFCD853F ));
19166: clPlum32', $FFDDA0DD ));
19167: clPowderBlue32', $FFB0E0E6 ));
19168: clRosyBrown32', $FFBC8F8F ));
19169: clRoyalBlue32', $FF4169E1 ));
19170: clSaddleBrown32', $FF8B4513 ));
19171: clSalmon32', $FFFA8072 ));
19172: clSandyBrown32', $FFF4A460 ));
19173: clSeaGreen32', $FF2E8B57 ));
19174: clSeaShell32', $FFFFFF5EE ));
19175: clSienna32', $FFA0522D ));
19176: clSilver32', $FFC0C0C0 ));
19177: clSkyblue32', $FF87CEEB ));
19178: clSlateBlue32', $FF6A5ACD ));
19179: clSlateGray32', $FF708090 ));
19180: clSlateGrey32', $FF708090 ));
19181: clSnow32', $FFFFFFFAFA ));
19182: clSpringgreen32', $FF00FF7F ));
19183: clSteelblue32', $FF4682B4 ));
19184: clTan32', $FFD2B48C ));
19185: clThistle32', $FFD8BFD8 ));
19186: clTomato32', $FFFF6347 ));
19187: clTurquoise32', $FF40E0D0 ));
19188: clViolet32', $FFEE82EE ));
19189: clWheat32', $FFF5DEB3 ));
19190: clWhitesmoke32', $FF5F5F5 ));
19191: clYellowgreen32', $FF9ACD32 ));
19192: clTrWhite32', $7FFFFFFF ));
19193: clTrBlack32', $7F000000 ));
19194: clTrRed32', $7FFF0000 ));
19195: clTrGreen32', $7F00FF00 ));
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19196:     clTrBlue32', $7F0000FF ));
19197: // Fixed point math constants
19198: FixedOne = $10000; FixedHalf = $7FFF;
19199: FixedPI = Round(PI * FixedOne);
19200: FixedToFloat = 1/FixedOne;
19201:
19202: Special Types
19203: ****
19204: type Complex = record
19205:   X, Y : Float;
19206: end;
19207: type TVector      = array of Float;
19208: TIntVector    = array of Integer;
19209: TCompVector   = array of Complex;
19210: TBoolVector   = array of Boolean;
19211: TStringVector = array of String;
19212: TMatrix       = array of TVector;
19213: TIntMatrix    = array of TIntVector;
19214: TCompMatrix   = array of TCompVector;
19215: TBoolMatrix   = array of TBoolVector;
19216: TStringMatrix = array of TStringVector;
19217: TByteArray    = array[0..32767] of byte; !
19218: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
19219: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);
19220: T2StringArray = array of array of string;
19221: T2IntegerArray = array of array of integer;
19222: AddTypes('INT_PTR', 'Integer'
19223: AddTypeS('LONG_PTR', 'Integer'
19224: AddTypes('UINT_PTR', 'Cardinal
19225: AddTypeS('ULONG_PTR', 'Cardinal
19226: AddTypeS('DWORD_PTR', 'ULONG_PTR
19227: TIntegerDynArray', 'array of Integer
19228: TCardinalDynArray', 'array of Cardinal
19229: TWordDynArray', 'array of Word
19230: TSmallIntDynArray', 'array of SmallInt
19231: TByteDynArray', 'array of Byte
19232: TShortIntDynArray', 'array of ShortInt
19233: TInt64DynArray', 'array of Int64
19234: TLongWordDynArray', 'array of LongWord
19235: TSingleDynArray', 'array of Single
19236: TDoubleDynArray', 'array of Double
19237: TBooleanDynArray', 'array of Boolean
19238: TStringDynArray', 'array of string
19239: TWideStringDynArray', 'array of WideString
19240: TDynByteArray   = array of Byte;
19241: TDynShortintArray = array of Shortint;
19242: TDynSmallintArray = array of Smallint;
19243: TDynWordArray   = array of Word;
19244: TDynIntegerArray = array of Integer;
19245: TDynLongintArray = array of Longint;
19246: TDynCardinalArray = array of Cardinal;
19247: TDynInt64Array   = array of Int64;
19248: TDynExtendedArray = array of Extended;
19249: TDynDoubleArray   = array of Double;
19250: TDynSingleArray   = array of Single;
19251: TDynFloatArray   = array of Float;
19252: TDynPointerArray = array of Pointer;
19253: TDynStringArray   = array of string;
19254: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
19255:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
19256: TSynSearchOptions = set of TSynSearchOption;
19257:
19258:
19259: /* Project : Base Include RunTime Lib for maxBox *Name: pas_includebox.inc
19260: -----
19261: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
19262: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
19263: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
19264: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
19265: function CheckStringSum(vString: string): integer;
19266: function HexToInt(HexNum: string): LongInt;
19267: function IntToBin(Int: Integer): String;
19268: function BinToInt(Binary: String): Integer;
19269: function HexToBin(HexNum: string): string; external2
19270: function BinToHex(Binary: String): string;
19271: function IntToFloat(i: Integer): double;
19272: function AddThousandSeparator(S: string; myChr: Char): string;
19273: function Max3(const X,Y,Z: Integer): Integer;
19274: procedure Swap(var X,Y,Z: char); // faster without inline
19275: procedure ReverseString(var S: String);
19276: function CharToHexStr(Value: Char): string;
19277: function CharToUniCode(Value: Char): string;
19278: function Hex2Dec(Value: Str002): Byte;
19279: function HexStrCodeToStr(Value: string): string;
19280: function HexToStr(i: integer; value: string): string;
19281: function UniCodeToStr(Value: string): string;
19282: function CRC16(statement: string): string;
19283: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
19284: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);

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19285: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
19286: Procedure ExecuteCommand(executeFile, paramString: string);
19287: Procedure ShellExecuteAndWait(executeFile, paramString: string);
19288: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
19289: procedure SearchAndOpenDoc(vfilenamepath: string);
19290: procedure ShowInterfaces(myFile: string);
19291: function Fact2(av: integer): extended;
19292: Function BoolToStr(B: Boolean): string;
19293: Function GCD(x, y : LongInt) : LongInt;
19294: function LCM(m,n: longint): longint;
19295: function GetASCII: string;
19296: function GetItemHeight(Font: TFont): Integer;
19297: function myPlaySound(s: pchar; flag,synflag: integer): boolean;
19298: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
19299: function getHINSTANCE: longword;
19300: function getHMODULE: longword;
19301: function GetASCII: string;
19302: function BytesisOk(const AByte: string; var VB: Byte): boolean;
19303: function WordIsOk(const AWord: string; var VW: Word): boolean;
19304: function TwentyFourBitValueisOk(const AValue: string; var VI: Integer): boolean;
19305: function LongIsOk(const Along: string; var VC: Cardinal): boolean;
19306: function SafeStr(const s: string): string;
19307: function ExtractUrlPath(const FileName: string): string;
19308: function ExtractUrlName(const FileName: string): string;
19309: function IsInternet: boolean;
19310: function RotateLeft1Bit_u32( Value: uint32): uint32;
19311: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double:NData:Int:var
LF:TStLinEst; ErrorStats : Boolean);
19312: procedure getEnvironmentInfo;
19313: procedure AntiFreeze;
19314: function GetCPUSpeed: Double;
19315: function IsVirtualPcGuest : Boolean;
19316: function IsVmWareGuest : Boolean;
19317: procedure StartSerialDialog;
19318: function IsWow64: boolean;
19319: function IsWow64String(var s: string): Boolean;
19320: procedure StartThreadDemo;
19321: Function RGB(R,G,B: Byte): TColor;
19322: Function Sendln(amess: string): boolean;
19323: Procedure maxbox;
19324: Function AspectRatio(aWidth, aHeight: Integer): String;
19325: function wget(aURL, afile: string): boolean;
19326: procedure PrintList(Value: TStringList);
19327: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
19328: procedure getEnvironmentInfo;
19329: procedure AntiFreeze;
19330: function getBitmap(apath: string): TBitmap;
19331: procedure ShowMessageBig(const aText : string);
19332: function YesNoDialog(const ACaption, AMsg: string): boolean;
19333: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
19334: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
19335: //function myStrToBytes(const Value: String): TBytes;
19336: //function myBytesToStr(const Value: TBytes): String;
19337: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
19338: function getBitmap(apath: string): TBitmap;
19339: procedure ShowMessageBig(const aText : string);
19340: Function StrToBytes(const Value: String): TBytes;
19341: Function BytesToStr(const Value: TBytes): String;
19342: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
19343: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int:var
HostName:String):Bool;
19344: function FindInPaths(const fileName, paths : String) : String;
19345: procedure initHexArray(var hexn: THexArray);
19346: function josephusG(n,k: integer; var graphout: string): integer;
19347: function isPowerof2(num: int64): boolean;
19348: function powerOf2(exponent: integer): int64;
19349: function getBigPI: string;
19350: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
19351: function GetASCIILine: string;
19352: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
19354: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
19355: procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
19356: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
19357: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
19358: function isKeyPressed: boolean;
19359: function Keypress: boolean;
19360: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
19361: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
19362: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
19363: function GetOSName: string;
19364: function GetOSVersion: string;
19365: function GetOSNumber: string;
19366: function getEnvironmentString: string;
19367: procedure StrReplace(var Str: String; Old, New: String);
19368: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19369: function getTeamViewerID: string;
19370: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
19371: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);

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19372: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
19373: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
19374: function StartSocketService: Boolean;
19375: procedure StartSocketServiceForm;
19376: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
19377: function GetFileList1(apath: string): TStringlist;
19378: procedure LetFileList(FileList: TStringlist; apath: string);
19379: procedure StartWeb(aurl: string);
19380: function GetTodayFiles(startdir, amask: string): TStringlist;
19381: function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
19382: function JavahashCode(val: string): Integer;
19383: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
19384: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
19385: Procedure HideWindowForSeconds(secs: integer); //3 seconds
19386: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
19387: Procedure ConvertToGray(Cnv: TCanvas);
19388: function GetFileDate(aFile:string; aWithTime:Boolean):string;
19389: procedure ShowMemory;
19390: function ShowMemory2: string;
19391: function getHostIP: string;
19392: procedure ShowBitmap(bmap: TBitmap);
19393: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
19394: function CreateDBGridForm(dblist: TStringList): TListbox;
19395: function isService: boolean;
19396: function isApplication: boolean;
19397: function isTerminalSession: boolean;
19398:
19399:
19400: // News of 3.9.8 up
19401: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
19402: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
19403: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
19404: JvChart - TJvChart Component - 2009 Public
19405: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
19406: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
19407: TAdoQuery.SQL.Add() fixed, ShLwAPI extensions, Indy HTTPHeader Extensions
19408: DMath DLL included incl. Demos
19409: Interface Navigator menu/View/Intf Navigator
19410: Unit Explorer menu/Debug/Units Explorer
19411: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maxcel
19412: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
19413: Script History to 9 Files WebServer light /Options/Addons/WebServer
19414: Full Text Finder, JVSimLogic Simulator Package
19415: Halt-Stop Program in Menu, WebServer2, Stop Event ,
19416: Conversion Routines, Prebuild Forms, CodeSearch
19417: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
19418: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
19419: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
19420: JvChart - TJvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TJvPaintFX
19421: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
19422: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
19423: IDE Reflection API, Session Service Shell S3
19424: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
19425: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
19426: arduino map() function, PRandom Generator
19427: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
19428: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
19429: REST Test Lib, Multilang Component, Forth Interpreter
19430: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
19431: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
19432: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
19433: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
19434: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
19435: QRCode Service, add more CFunctions like CDatetime of Synapse
19436: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
19437: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
19438: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
19439: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
19440: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
19441: BOLD Package, Indy Package5, maTRIX. MATHEMAX
19442: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
19443: emax layers: system-package-component-unit-class-function-block
19444: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
19445: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
19446: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
19447: OpenGL Game Demo: ..Options/Add Ons/Reversi
19448: IUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
19449: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
19450: 7% performance gain (hot spot profiling)
19451: PEP -Pascal Education Program , GSM Module, CGI, PHP Runner
19452: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
19453: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
19454: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
19455:
19456: add routines in 3.9.7.5
19457: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEExec);
19458: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEExec);
19459: 069: procedure RIRegister_IdStrings_Routines(S: TPSEExec);
19460: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEExec);

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19461: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEexec);
19462: 374: procedure RIRegister_SerDlgs_Routines(S: TPSEexec);
19463: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEexec);
19464:
19465: ////////////////////////////////////////////////////////////////// TestUnits //////////////////////////////////////////////////////////////////
19466: SelftestPEM;
19467: SelfTestCFundamentUtils;
19468: SelfTestCFileUtils;
19469: SelfTestCDateTime;
19470: SelfTestCTimer;
19471: SelfTestCRandom;
19472: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
19473:           Assert(WinPathToUnixPath('\c\d.f') = '/c/d.f', 'WinPathToUnixPath'
19474:
19475: // Note: There's no need for installing a client certificate in the
19476: // webbrowser. The server asks the webbrowser to send a certificate but
19477: // if nothing is installed the software will work because the server
19478: // doesn't check to see if a client certificate was supplied. If you want you can install:
19479: // file: c_cacert.p12
19480: // password: c_cakey
19481:
19482: TGraphicControl = class(TControl)
19483: private
19484:   FCanvas: TCanvas;
19485:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
19486: protected
19487:   procedure Paint; virtual;
19488:   property Canvas: TCanvas read FCanvas;
19489: public
19490:   constructor Create(AOwner: TComponent); override;
19491:   destructor Destroy; override;
19492: end;
19493:
19494: TCustomControl = class(TWinControl)
19495: private
19496:   FCanvas: TCanvas;
19497:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
19498: protected
19499:   procedure Paint; virtual;
19500:   procedure PaintWindow(DC: HDC); override;
19501:   property Canvas: TCanvas read FCanvas;
19502: public
19503:   constructor Create(AOwner: TComponent); override;
19504:   destructor Destroy; override;
19505: end;
19506: RegisterPublishedProperties;
19507: ('ONCHANGE', 'TNotifyEvent', iptrw);
19508: ('ONCLICK', 'TNotifyEvent', iptrw);
19509: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
19510: ('ONENTER', 'TNotifyEvent', iptrw);
19511: ('ONEXIT', 'TNotifyEvent', iptrw);
19512: ('ONKEYDOWN', 'TKeyEvent', iptrw);
19513: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
19514: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
19515: ('ONMOUSEMOVE', 'TMouseEvent', iptrw);
19516: ('ONMOUSEUP', 'TMouseEvent', iptrw);
19517: //*****
19518: // To stop the while loop, click on Options/Show Include (boolean switch) !
19519: Control a loop in a script with a form event:
19520: IncludeON; //control the while loop
19521: while maxform1.ShowInclude1.checked do begin //menu event Options/Show Include
19522:
19523: //-----
19524: //*****mX4 ini-file Configuration*****
19525: //-----
19526: using config file maxboxdef.ini      menu/Help/Config File
19527:
19528: //*** Definitions for maxBox mX3 ***
19529: [FORM]
19530: LAST_FILE=E:\maxBox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
19531: FONTSIZE=14
19532: EXTENSION=txt
19533: SCREENX=1386
19534: SCREENY=1077
19535: MEMHEIGHT=350
19536: PRINTFONT=Courier New //GUI Settings
19537: LINENUMBERS=Y //line numbers at gutter in editor at left side
19538: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! -menu Debug>Show Last Exceptions
19539: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
19540: BOOTSCRIPT=Y //enabling load a boot script
19541: MEMORYREPORT=Y //shows memory report on closing maxBox
19542: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
19543: NAVIGATOR=N //shows function list at the right side of editor
19544: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
19545: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
19546: [WEB]
19547: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
19548: IPHOST=192.168.1.53
19549: ROOTCERT=filepathy

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19550: SCERT=filepathY
19551: RSAKEY=filepathY
19552: VERSIONCHECK=Y
19553:
19554: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
19555:
19556: Also possible to set report memory in script to override ini setting
19557: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
19558:
19559:
19560: After Change the ini file you can reload the file with ..../Help/Config Update
19561:
19562: //-----
19563: //*****mX4 maildef.ini ini-file Configuration*****
19564: //-----
19565: //*** Definitions for maxMail ***
19566: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
19567: [ MAXMAIL ]
19568: HOST=getmail.softwareschule.ch
19569: USER=mailusername
19570: PASS=password
19571: PORT=110
19572: SSL=Y
19573: BODY=Y
19574: LAST=5
19575:
19576: ADO Connection String:
19577: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
19578:
19579: \452_dbtreeview2access.txt
19580: program TestDbTreeViewMainForm2_ACCESS;
19581:   ConnectionString:='Provider=Microsoft.Jet.OLEDB.4.0;Data Source='
19582:           +Exepath+'\examples\detail.mdb;Persist Security Info=False';
19583:
19584: OpenSSL Lib: unit ssl_openssl_lib;
19585: {$IFDEF CIL}
19586: const
19587: {$IFDEF LINUX}
19588: DLLSSName = 'libssl.so';
19589: DLLUtilName = 'libcrypto.so';
19590: {$ELSE}
19591: DLLSSName = 'ssleay32.dll';
19592: DLLUtilName = 'libeay32.dll';
19593: {$ENDIF}
19594: {$ELSE}
19595: var
19596: {$IFNDEF MSWINDOWS}
19597: {$IFDEF DARWIN}
19598: DLLSSName: string = 'libssl.dylib';
19599: DLLUtilName: string = 'libcrypto.dylib';
19600: {$ELSE}
19601: DLLSSName: string = 'libssl.so';
19602: DLLUtilName: string = 'libcrypto.so';
19603: {$ENDIF}
19604: {$ELSE}
19605: DLLSSName: string = 'ssleay32.dll';
19606: DLLSSName2: string = 'libssl32.dll';
19607: DLLUtilName: string = 'libeay32.dll';
19608: {$ENDIF}
19609: {$ENDIF}
19610:
19611:
19612: //-----
19613: //*****mX4 Macro Tags *****
19614: //-----
19615:
19616: asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
19617:
19618: //Tag Macros
19619:
19620: asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
19621:
19622: //Tag Macros
19623: 10188: SearchAndCopy(memo1.lines, '#name', getUsernameWin, 11);
19624: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
19625: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
19626: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
19627: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
19628: 10199: SearchAndCopy(memo1.lines, '#fils', fname +' '+SHA1(Act_Filename), 11);
19629: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
19630: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
19631: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
19632: [getUserNameWin, getComputernameWin, datetimetoStr(now),
19633: 10196: SearchAndCopy(memo1.lines, '#head',Format('%s: %s: %s %s ',
19634: 10197: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]],11);
19635: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]],11);
19636: 10198: SearchAndCopy(memo1.lines, '#tech',Format('perf: %s threads: %d %s %s',
19637: [perftime, numprocesssthreads, getAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);

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19638: 10298: SearchAndCopy(memo1.lines, '#net',Format('DNS: %s; local IPs: %s; local IP: %s',
19639:           [getDNS, GetLocalIPs, getAddress(getComputerNameWin)], 10);
19640:
19641: //##tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
19642:
19643: //Replace Macros
19644: SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
19645: SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
19646: SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
19647: SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPath, 9);
19648: SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
19649: SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
19650:
19651: SearchAndCopy(memo1.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19652:           [perftime,numprocesssthreads,getIPAddress(getComputerNameWin),timetoStr(time),mbversion], 11);
19653: //##tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19654: SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt
19655:
19656: //-----
19657: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
19658: //-----
19659:
19660: while I < sl.Count do begin
19661:   // if MatchesMask(sl[I], '*/? TODO ([a-z0-9_]*#[1-9#])*:*') then
19662:     if MatchesMask(sl[I], '*/? TODO (?*#?#)*:*') then
19663:       BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
19664:     else if MatchesMask(sl[I], '*/? DONE (?*#?#)*:*') then
19665:       BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
19666:     else if MatchesMask(sl[I], '*/? TODO (#?#)*:*') then
19667:       BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
19668:     else if MatchesMask(sl[I], '*/? DONE (#?#)*:*') then
19669:       BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
19670:     else if MatchesMask(sl[I], '*/?TODO*:*)' then
19671:       BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
19672:     else if MatchesMask(sl[I], '*/?*DONE*:*)' then
19673:       BreakupToDo(Filename, sl, I, 'DONE', False, False) // custom DONE
19674:     Inc(I);
19675:   end;
19676:
19677:
19678: //-----
19679: //*****mX4 Public Tools API *****
19680: //-----
19681: file : unit uPSI_fMain.pas;           {$SOTAP} Open Tools API Catalog
19682: // Those functions concern the editor and preprocessor, all of the IDE
19683: Example: Call it with maxForm1.InfoClick(self)
19684: Note: Call all Methods with maxForm1., e.g.:
19685:           maxForm1.ShellStyle1Click(self);
19686:
19687: procedure SIRegister_fMain(CL: TPSPascalCompiler);
19688: begin
19689:   Const ('BYTECODE','String 'bytecode.txt'
19690:   Const ('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT)'
19691:   Const ('PSMODEL','String PS Modelfiles (*.uc)|*.UC
19692:   Const ('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS
19693:   Const ('PSINC','String PS Includes (*.inc)|*.INC
19694:   Const ('DEFFILENAME','String 'firstdemo.txt
19695:   Const ('DEFINIFILE','String 'maxboxdef.ini
19696:   Const ('EXCEPTLOGFILE','String 'maxboxerrorlog.txt
19697:   Const ('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt
19698:   Const ('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf
19699:   Const ('ALLOBJECTSLIST','String 'docs\VCL.pdf
19700:   Const ('ALLRESOURCELIST','String 'docs\upsi_allresourcelist.txt
19701:   Const ('ALLUNITLIST','String 'docs\maxbox3_9.xml');
19702:   Const ('INCLUDEBOX','String 'pas_includebox.inc
19703:   Const ('BOOTSCRIPT','String 'maxbootscript.txt
19704:   Const ('MBVERSION','String '3.9.9.98
19705:   Const ('VERSION','String '3.9.9.98
19706:   Const ('MBVER','String '399
19707:   Const ('MBVER1','Integer'(399);
19708:   Const ('MBVERIALL','Integer'(39998);
19709:   Const ('EXENAME','String 'maxbox3.exe
19710:   Const ('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
19711:   Const ('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
19712:   Const ('MXVERSIONFILE2','String 'http://www.softwareschule.ch/maxvfile2.txt
19713:   Const ('MXINTERNETCHECK','String 'www.ask.com
19714:   Const ('MXMAIL','String 'max@kleiner.com
19715:   Const ('TAB','Char #'$09);
19716:   Const ('CODECOMPLETION','String 'bds_delphi.dci
19717:   SIRegister_TMaxForm1(CL);
19718: end;
19719:
19720: with FindClass('TForm'),'TMaxForm1') do begin
19721:   memo2, 'TMemo', iptrw);
19722:   memo1, 'TSynMemo', iptrw);
19723:   CB1SCList', 'TComboBox', iptrw);
19724:   mxNavigator', 'TComboBox', iptrw);
19725:   IPHost', 'string', iptrw);
19726:   IPPort', 'integer', iptrw);

```

```
19727:     COMPort', 'integer', iptrw);      //3.9.6.4
19728:     Splitter1', 'TSplitter', iptrw);
19729:     PSScript', 'TPSScript', iptrw);
19730:     PS3DllPlugin', 'TPS3DllPlugin', iptrw);
19731:     MainMenul', 'TMainMenu', iptrw);
19732:     Programl', 'TMenuItem', iptrw);
19733:     Compilel', 'TMenuItem', iptrw);
19734:     Files1', 'TMenuItem', iptrw);
19735:     open1', 'TMenuItem', iptrw);
19736:     Save2', 'TMenuItem', iptrw);
19737:     Options1', 'TMenuItem', iptrw);
19738:     Savebefore1', 'TMenuItem', iptrw);
19739:     Largefont1', 'TMenuItem', iptrw);
19740:     sBytecode1', 'TMenuItem', iptrw);
19741:     Saveas3', 'TMenuItem', iptrw);
19742:     Clear1', 'TMenuItem', iptrw);
19743:     Slinenumber1', 'TMenuItem', iptrw);
19744:     About1', 'TMenuItem', iptrw);
19745:     Search1', 'TMenuItem', iptrw);
19746:     SynPasSyn1', 'TSynPasSyn', iptrw);
19747:     memo1', 'TSynMemo', iptrw);
19748:     SynEditSearch1', 'TSynEditSearch', iptrw);
19749:     WordWrap1', 'TMenuItem', iptrw);
19750:     XPMManifest1', 'TXPManifest', iptrw);
19751:     SearchNext1', 'TMenuItem', iptrw);
19752:     Replace1', 'TMenuItem', iptrw);
19753:     PSImport_Controls1', 'TPSImport_Controls', iptrw);
19754:     PSImport_Classes1', 'TPSImport_Classes', iptrw);
19755:     ShowInclude1', 'TMenuItem', iptrw);
19756:     SynEditPrint1', 'TSynEditPrint', iptrw);
19757:     Printout1', 'TMenuItem', iptrw);
19758:     mnPrintColors1', 'TMenuItem', iptrw);
19759:     dlgFilePrint1', 'TPrintDialog', iptrw);
19760:     dlgPrintFont1', 'TFontDialog', iptrw);
19761:     mnuPrintFont1', 'TMenuItem', iptrw);
19762:     Include1', 'TMenuItem', iptrw);
19763:     CodeCompletionList1', 'TMenuItem', iptrw);
19764:     IncludeList1', 'TMenuItem', iptrw);
19765:     ImageList1', 'TImageList', iptrw);
19766:     ImageList2', 'TImageList', iptrw);
19767:     CoolBar1', 'TCoolBar', iptrw);
19768:     ToolBar1', 'TToolBar', iptrw);
19769:     btnLoad', 'TToolButton', iptrw);
19770:     ToolButton2', 'TToolButton', iptrw);
19771:     btnFind', 'TToolButton', iptrw);
19772:     btnCompile', 'TToolButton', iptrw);
19773:     btnTrans', 'TToolButton', iptrw);
19774:     btnUseCase', 'TToolButton', iptrw); //3.8
19775:     toolbtnTutorial', 'TToolButton', iptrw);
19776:     tooln6res', 'TToolButton', iptrw);
19777:     ToolButton5', 'TToolButton', iptrw);
19778:     ToolButton1', 'TToolButton', iptrw);
19779:     ToolButton3', 'TToolButton', iptrw);
19780:     statusBar1', 'TStatusBar', iptrw);
19781:     SaveOutput1', 'TMenuItem', iptrw);
19782:     ExportClipboard1', 'TMenuItem', iptrw);
19783:     Close1', 'TMenuItem', iptrw);
19784:     Manuall', 'TMenuItem', iptrw);
19785:     About2', 'TMenuItem', iptrw);
19786:     loadLastfile1', 'TMenuItem', iptrw);
19787:     imglogo', 'TImage', iptrw);
19788:     cedebbug', 'TPSScriptDebugger', iptrw);
19789:     debugPopupMenu1', 'TPopupMenu', iptrw);
19790:     BreakPointMenu1', 'TMenuItem', iptrw);
19791:     Decompile1', 'TMenuItem', iptrw);
19792:     StepIn1', 'TMenuItem', iptrw);
19793:     StepOut1', 'TMenuItem', iptrw);
19794:     Reset1', 'TMenuItem', iptrw);
19795:     DebugRun1', 'TMenuItem', iptrw);
19796:     PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
19797:     PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
19798:     PSImport_Forms1', 'TPSImport_Forms', iptrw);
19799:     PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
19800:     tutorial4', 'TMenuItem', iptrw);
19801:     ExporttoClipboard1', 'TMenuItem', iptrw);
19802:     ImportfromClipboard1', 'TMenuItem', iptrw);
19803:     N4', 'TMenuItem', iptrw);
19804:     N5', 'TMenuItem', iptrw);
19805:     N6', 'TMenuItem', iptrw);
19806:     ImportfromClipboard2', 'TMenuItem', iptrw);
19807:     tutorial1', 'TMenuItem', iptrw);
19808:     N7', 'TMenuItem', iptrw);
19809:     ShowSpecChar1', 'TMenuItem', iptrw);
19810:     OpenDirectory1', 'TMenuItem', iptrw);
19811:     procMess', 'TMenuItem', iptrw);
19812:     btnUseCase', 'TToolButton', iptrw);
19813:     ToolButton7', 'TToolButton', iptrw);
19814:     EditFont1', 'TMenuItem', iptrw);
19815:     UseCasel', 'TMenuItem', iptrw);
```

```
19816: tutorial21', 'TMenuItem', iptrw);
19817: OpenUseCase1', 'TMenuItem', iptrw);
19818: PSImport_DB1', 'TPSImport_DB', iptrw);
19819: tutorial31', 'TMenuItem', iptrw);
19820: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
19821: HTMLSyntax1', 'TMenuItem', iptrw);
19822: ShowInterfaces1', 'TMenuItem', iptrw);
19823: Tutorials5', 'TMenuItem', iptrw);
19824: AllFunctionsList1', 'TMenuItem', iptrw);
19825: ShowLastException1', 'TMenuItem', iptrw);
19826: PlayMP31', 'TMenuItem', iptrw);
19827: SynTeXSyn1', 'TSynTeXSyn', iptrw);
19828: texSyntax1', 'TMenuItem', iptrw);
19829: N8', 'TMenuItem', iptrw);
19830: GetEMails1', 'TMenuItem', iptrw);
19831: SynCppSyn1', 'TSynCppSyn', iptrw);
19832: CSyntax1', 'TMenuItem', iptrw);
19833: Tutorial6', 'TMenuItem', iptrw);
19834: New1', 'TMenuItem', iptrw);
19835: AllObjectsList1', 'TMenuItem', iptrw);
19836: LoadBytecode1', 'TMenuItem', iptrw);
19837: CipherFile1', 'TMenuItem', iptrw);
19838: N9', 'TMenuItem', iptrw);
19839: N10', 'TMenuItem', iptrw);
19840: Tutorial11', 'TMenuItem', iptrw);
19841: Tutorial71', 'TMenuItem', iptrw);
19842: UpdateService1', 'TMenuItem', iptrw);
19843: PascalSchool1', 'TMenuItem', iptrw);
19844: Tutorial81', 'TMenuItem', iptrw);
19845: DelphiSite1', 'TMenuItem', iptrw);
19846: Output1', 'TMenuItem', iptrw);
19847: TerminalStyle1', 'TMenuItem', iptrw);
19848: ReadOnly1', 'TMenuItem', iptrw);
19849: ShellStyle1', 'TMenuItem', iptrw);
19850: BigScreen1', 'TMenuItem', iptrw);
19851: Tutorial91', 'TMenuItem', iptrw);
19852: SaveOutput2', 'TMenuItem', iptrw);
19853: N11', 'TMenuItem', iptrw);
19854: SaveScreenshot', 'TMenuItem', iptrw);
19855: Tutorial101', 'TMenuItem', iptrw);
19856: SQLSyntax1', 'TMenuItem', iptrw);
19857: SynSQLSyn1', 'TSynSQLSyn', iptrw);
19858: Console1', 'TMenuItem', iptrw);
19859: SynXMLSyn1', 'TSynXMLSyn', iptrw);
19860: XMLSyntax1', 'TMenuItem', iptrw);
19861: ComponentCount1', 'TMenuItem', iptrw);
19862: NewInstance1', 'TMenuItem', iptrw);
19863: toolbtnTutorial', 'TToolButton', iptrw);
19864: Memory1', 'TMenuItem', iptrw);
19865: SynJavaSyn1', 'TSynJavaSyn', iptrw);
19866: JavaSyntax1', 'TMenuItem', iptrw);
19867: SyntaxCheck1', 'TMenuItem', iptrw);
19868: Tutorial10Statistics1', 'TMenuItem', iptrw);
19869: ScriptExplorer1', 'TMenuItem', iptrw);
19870: FormOutput1', 'TMenuItem', iptrw);
19871: ArduinoDump1', 'TMenuItem', iptrw);
19872: AndroidDump1', 'TMenuItem', iptrw);
19873: GotoEnd1', 'TMenuItem', iptrw);
19874: AllResourceList1', 'TMenuItem', iptrw);
19875: ToolButton4', 'TToolButton', iptrw);
19876: btn6res', 'TToolButton', iptrw);
19877: Tutorial11Forms1', 'TMenuItem', iptrw);
19878: Tutorial12SQL1', 'TMenuItem', iptrw);
19879: ResourceExplore1', 'TMenuItem', iptrw);
19880: Info1', 'TMenuItem', iptrw);
19881: N12', 'TMenuItem', iptrw);
19882: CryptoBox1', 'TMenuItem', iptrw);
19883: Tutorial13Ciphering1', 'TMenuItem', iptrw);
19884: CipherFile2', 'TMenuItem', iptrw);
19885: N13', 'TMenuItem', iptrw);
19886: ModulesCount1', 'TMenuItem', iptrw);
19887: AddOns2', 'TMenuItem', iptrw);
19888: N4GewinntGame1', 'TMenuItem', iptrw);
19889: DocuforAddOns1', 'TMenuItem', iptrw);
19890: Tutorial14Asyncl', 'TMenuItem', iptrw);
19891: Lessons15Review1', 'TMenuItem', iptrw);
19892: SynPHPSyn1', 'TSynPHPSyn', iptrw);
19893: PHPSyntax1', 'TMenuItem', iptrw);
19894: Breakpoint1', 'TMenuItem', iptrw);
19895: SerialRS2321', 'TMenuItem', iptrw);
19896: N14', 'TMenuItem', iptrw);
19897: SynCSSyn1', 'TSynCSSyn', iptrw);
19898: CSyntax2', 'TMenuItem', iptrw);
19899: Calculator1', 'TMenuItem', iptrw);
19900: btnSerial', 'TToolButton', iptrw);
19901: ToolButton8', 'TToolButton', iptrw);
19902: Tutorial151', 'TMenuItem', iptrw);
19903: N15', 'TMenuItem', iptrw);
19904: N16', 'TMenuItem', iptrw);
```

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19905: ControlBar1', 'TControlBar', iptrw);
19906: ToolBar2', 'TToolBar', iptrw);
19907: BtnOpen', 'TToolBar', iptrw);
19908: BtnSave', 'TToolBar', iptrw);
19909: BtnPrint', 'TToolBar', iptrw);
19910: BtnColors', 'TToolBar', iptrw);
19911: btnClassReport', 'TToolBar', iptrw);
19912: BtnRotateRight', 'TToolBar', iptrw);
19913: BtnFullScreen', 'TToolBar', iptrw);
19914: BtnFitToWindowSize', 'TToolBar', iptrw);
19915: BtnZoomMinus', 'TToolBar', iptrw);
19916: BtnZoomPlus', 'TToolBar', iptrw);
19917: Panel1', 'TPanel', iptrw);
19918: LabelBrettgroesse', ' TLabel', iptrw);
19919: CB1SCLList', 'TComboBox', iptrw);
19920: ImageListNormal', 'TImageList', iptrw);
19921: spbtnexploye', 'TSpeedButton', iptrw);
19922: spbtnexample', 'TSpeedButton', iptrw);
19923: spbsaveas', 'TSpeedButton', iptrw);
19924: imglogobox', 'TImage', iptrw);
19925: EnlargeFont1', 'TMenuItem', iptrw);
19926: EnlargeFont2', 'TMenuItem', iptrw);
19927: ShrinkFont1', 'TMenuItem', iptrw);
19928: ThreadDemo1', 'TMenuItem', iptrw);
19929: HEXEditor1', 'TMenuItem', iptrw);
19930: HEXView1', 'TMenuItem', iptrw);
19931: HEXInspect1', 'TMenuItem', iptrw);
19932: SynExporterHTML1', 'TSynExporterHTML', iptrw);
19933: ExporttoHTML1', 'TMenuItem', iptrw);
19934: ClassCount1', 'TMenuItem', iptrw);
19935: HTMLOutput1', 'TMenuItem', iptrw);
19936: HEXEditor2', 'TMenuItem', iptrw);
19937: Minesweeper1', 'TMenuItem', iptrw);
19938: N17', 'TMenuItem', iptrw);
19939: PicturePuzzle1', 'TMenuItem', iptrw);
19940: sbvc1help', 'TSpeedButton', iptrw);
19941: DependencyWalker1', 'TMenuItem', iptrw);
19942: WebScanner1', 'TMenuItem', iptrw);
19943: View1', 'TMenuItem', iptrw);
19944: mnToolbar1', 'TMenuItem', iptrw);
19945: mnStatusbar2', 'TMenuItem', iptrw);
19946: mnConsole2', 'TMenuItem', iptrw);
19947: mnCoolbar2', 'TMenuItem', iptrw);
19948: mnSplitter2', 'TMenuItem', iptrw);
19949: WebServer1', 'TMenuItem', iptrw);
19950: Tutorial17Server1', 'TMenuItem', iptrw);
19951: Tutorial18Arduino1', 'TMenuItem', iptrw);
19952: SynPerlSyn1', 'TSynPerlSyn', iptrw);
19953: PerlSyntax1', 'TMenuItem', iptrw);
19954: SynPythonSyn1', 'TSynPythonSyn', iptrw);
19955: PythonSyntax1', 'TMenuItem', iptrw);
19956: DMathLibrary1', 'TMenuItem', iptrw);
19957: IntfNavigator1', 'TMenuItem', iptrw);
19958: EnlargeFontConsole1', 'TMenuItem', iptrw);
19959: ShrinkFontConsole1', 'TMenuItem', iptrw);
19960: SetInterfaceList1', 'TMenuItem', iptrw);
19961: popintfList', 'TPopupMenu', iptrw);
19962: intfAdd1', 'TMenuItem', iptrw);
19963: intfDelete1', 'TMenuItem', iptrw);
19964: intfRefactor1', 'TMenuItem', iptrw);
19965: Defactor1', 'TMenuItem', iptrw);
19966: Tutorial19COMArduino1', 'TMenuItem', iptrw);
19967: Tutorial20Regex', 'TMenuItem', iptrw);
19968: N18', 'TMenuItem', iptrw);
19969: ManualE1', 'TMenuItem', iptrw);
19970: FullTextFinder1', 'TMenuItem', iptrw);
19971: Move1', 'TMenuItem', iptrw);
19972: FractalDemo1', 'TMenuItem', iptrw);
19973: Tutorial21Android1', 'TMenuItem', iptrw);
19974: Tutorial0Function1', 'TMenuItem', iptrw);
19975: SimuLogBox1', 'TMenuItem', iptrw);
19976: OpenExamples1', 'TMenuItem', iptrw);
19977: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
19978: JavaScriptSyntax1', 'TMenuItem', iptrw);
19979: Halt1', 'TMenuItem', iptrw);
19980: CodeSearch1', 'TMenuItem', iptrw);
19981: SynRubySyn1', 'TSynRubySyn', iptrw);
19982: RubySyntax1', 'TMenuItem', iptrw);
19983: Undol', 'TMenuItem', iptrw);
19984: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
19985: LinuxShellScript1', 'TMenuItem', iptrw);
19986: Rename1', 'TMenuItem', iptrw);
19987: spdcodesearch', 'TSpeedButton', iptrw);
19988: Preview1', 'TMenuItem', iptrw);
19989: Tutorial22Services1', 'TMenuItem', iptrw);
19990: Tutorial23RealTime1', 'TMenuItem', iptrw);
19991: Configuration1', 'TMenuItem', iptrw);
19992: MP3Player1', 'TMenuItem', iptrw);
19993: DLLSpy1', 'TMenuItem', iptrw);
```

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19994: SynURIOpener1', 'TSynURIOpener', iptrw);
19995: SynURISyn1', 'TSynURISyn', iptrw);
19996: URILinksClicks1', 'TMenuItem', iptrw);
19997: EditReplace1', 'TMenuItem', iptrw);
19998: GotoLine1', 'TMenuItem', iptrw);
19999: ActiveLineColor1', 'TMenuItem', iptrw);
20000: ConfigFile1', 'TMenuItem', iptrw);
20001: SortIntlList', 'TMenuItem', iptrw);
20002: Redo1', 'TMenuItem', iptrw);
20003: Tutorial24CleanCode1', 'TMenuItem', iptrw);
20004: Tutorial25Configuration1', 'TMenuItem', iptrw);
20005: IndentSelection1', 'TMenuItem', iptrw);
20006: UnindentSection1', 'TMenuItem', iptrw);
20007: SkyStyle1', 'TMenuItem', iptrw);
20008: N19', 'TMenuItem', iptrw);
20009: CountWords1', 'TMenuItem', iptrw);
20010: imBookmarkImages', 'TImageList', iptrw);
20011: Bookmark11', 'TMenuItem', iptrw);
20012: N20', 'TMenuItem', iptrw);
20013: Bookmark21', 'TMenuItem', iptrw);
20014: Bookmark31', 'TMenuItem', iptrw);
20015: Bookmark41', 'TMenuItem', iptrw);
20016: SynMultiSyn1', 'TSynMultiSyn', iptrw);
20017:
20018: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
20019: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
20020: Procedure PSScriptCompile( Sender : TPSScript)
20021: Procedure Compile1Click( Sender : TObject)
20022: Procedure PSScriptExecute( Sender : TPSScript)
20023: Procedure open1Click( Sender : TObject)
20024: Procedure Save2Click( Sender : TObject)
20025: Procedure Savebefore1Click( Sender : TObject)
20026: Procedure Largefont1Click( Sender : TObject)
20027: Procedure FormActivate( Sender : TObject)
20028: Procedure SBytecode1Click( Sender : TObject)
20029: Procedure FormKeyPress( Sender : TObject; var Key : Char)
20030: Procedure Saveas3Click( Sender : TObject)
20031: Procedure Clear1Click( Sender : TObject)
20032: Procedure Slinenumbers1Click( Sender : TObject)
20033: Procedure About1Click( Sender : TObject)
20034: Procedure Search1Click( Sender : TObject)
20035: Procedure FormCreate( Sender : TObject)
20036: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
20037:                                     var Action : TSynReplaceAction)
20038: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
20039: Procedure WordWrap1Click( Sender : TObject)
20040: Procedure SearchNext1Click( Sender : TObject)
20041: Procedure Replace1Click( Sender : TObject)
20042: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
20043: Procedure ShowInclude1Click( Sender : TObject)
20044: Procedure Printout1Click( Sender : TObject)
20045: Procedure mnuPrintFont1Click( Sender : TObject)
20046: Procedure Include1Click( Sender : TObject)
20047: Procedure FormDestroy( Sender : TObject)
20048: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
20049: Procedure UpdateView1Click( Sender : TObject)
20050: Procedure CodeCompletionList1Click( Sender : TObject)
20051: Procedure SaveOutput1Click( Sender : TObject)
20052: Procedure ExportClipboard1Click( Sender : TObject)
20053: Procedure Close1Click( Sender : TObject)
20054: Procedure Manual1Click( Sender : TObject)
20055: Procedure LoadLastFile1Click( Sender : TObject)
20056: Procedure Memo1Change( Sender : TObject)
20057: Procedure Decompile1Click( Sender : TObject)
20058: Procedure StepInto1Click( Sender : TObject)
20059: Procedure StepOut1Click( Sender : TObject)
20060: Procedure Reset1Click( Sender : TObject)
20061: Procedure cedebugAfterExecute( Sender : TPSScript)
20062: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
20063: Procedure cedebugCompile( Sender : TPSScript)
20064: Procedure cedebugExecute( Sender : TPSScript)
20065: Procedure cedebugIdle( Sender : TObject)
20066: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
20067: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
20068: Procedure BreakPointMenuClick( Sender : TObject)
20069: Procedure DebugRun1Click( Sender : TObject)
20070: Procedure tutorial4Click( Sender : TObject)
20071: Procedure ImportfromClipboard1Click( Sender : TObject)
20072: Procedure ImportfromClipboard2Click( Sender : TObject)
20073: Procedure tutorial1Click( Sender : TObject)
20074: Procedure ShowSpecChars1Click( Sender : TObject)
20075: Procedure StatusBar1DblClick( Sender : TObject)
20076: Procedure PSScriptLine( Sender : TObject)
20077: Procedure OpenDirectory1Click( Sender : TObject)
20078: Procedure procMessClick( Sender : TObject)
20079: Procedure tbtnUseCaseClick( Sender : TObject)
20080: Procedure EditFont1Click( Sender : TObject)
20081: Procedure tutorial21Click( Sender : TObject)
20082: Procedure tutorial31Click( Sender : TObject)

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20083: Procedure HTMLSyntax1Click( Sender : TObject )
20084: Procedure ShowInterfaces1Click( Sender : TObject )
20085: Procedure Tutorial5Click( Sender : TObject )
20086: Procedure ShowLastException1Click( Sender : TObject )
20087: Procedure PlayMP31Click( Sender : TObject )
20088: Procedure AllFunctionsList1Click( Sender : TObject )
20089: Procedure texSyntax1Click( Sender : TObject )
20090: Procedure GetEMails1Click( Sender : TObject )
20091: procedure DelphiSite1Click(Sender: TObject);
20092: procedure TerminalStyle1Click(Sender: TObject);
20093: procedure ReadOnly1Click(Sender: TObject); -->maxform1.memo2.readonly:= false;
20094: procedure Shellstyle1Click(Sender: TObject);
20095: procedure Console1Click(Sender: TObject); //3.2
20096: procedure BigScreen1Click(Sender: TObject);
20097: procedure Tutorial91Click(Sender: TObject);
20098: procedure SaveScreenshotClick(Sender: TObject);
20099: procedure Tutorial101Click(Sender: TObject);
20100: procedure SQLSyntax1Click(Sender: TObject);
20101: procedure XMLSyntax1Click(Sender: TObject);
20102: procedure ComponentCount1Click(Sender: TObject);
20103: procedure NewInstance1Click(Sender: TObject);
20104: procedure CSyntax1Click(Sender: TObject);
20105: procedure Tutorial6Click(Sender: TObject);
20106: procedure New1Click(Sender: TObject);
20107: procedure AllObjectsList1Click(Sender: TObject);
20108: procedure LoadBytecode1Click(Sender: TObject);
20109: procedure CipherFile1Click(Sender: TObject); //V3.5
20110: procedure NewInstance1Click(Sender: TObject);
20111: procedure toolbtnTutorialClick(Sender: TObject);
20112: procedure Memory1Click(Sender: TObject);
20113: procedure JavaSyntax1Click(Sender: TObject);
20114: procedure SyntaxCheck1Click(Sender: TObject);
20115: procedure ScriptExplorer1Click(Sender: TObject);
20116: procedure FormOutput1Click(Sender: TObject); //V3.6
20117: procedure GotoEnd1Click(Sender: TObject);
20118: procedure AllResourceList1Click(Sender: TObject);
20119: procedure tbtn6resClick(Sender: TObject); //V3.7
20120: procedure Info1Click(Sender: TObject);
20121: procedure Tutorial10Statistics1Click(Sender: TObject);
20122: procedure Tutorial11Forms1Click(Sender: TObject);
20123: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
20124: procedure ResourceExplore1Click(Sender: TObject);
20125: procedure Info1Click(Sender: TObject);
20126: procedure CryptoBox1Click(Sender: TObject);
20127: procedure ModulesCount1Click(Sender: TObject);
20128: procedure N4GewinntGame1Click(Sender: TObject);
20129: procedure PHPSyntax1Click(Sender: TObject);
20130: procedure SerialRS2321Click(Sender: TObject);
20131: procedure CSyntax2Click(Sender: TObject);
20132: procedure Calculator1Click(Sender: TObject);
20133: procedure Tutorial13Ciphering1Click(Sender: TObject);
20134: procedure Tutorial14Async1Click(Sender: TObject);
20135: procedure PHPSyntax1Click(Sender: TObject);
20136: procedure BtnZoomPlusClick(Sender: TObject);
20137: procedure BtnZoomMinusClick(Sender: TObject);
20138: procedure btnClassReportClick(Sender: TObject);
20139: procedure ThreadDemo1Click(Sender: TObject);
20140: procedure HEXView1Click(Sender: TObject);
20141: procedure ExporttoHTML1Click(Sender: TObject);
20142: procedure Minesweeper1Click(Sender: TObject);
20143: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
20144: procedure sbvc1helpClick(Sender: TObject);
20145: procedure DependencyWalker1Click(Sender: TObject);
20146: procedure CB1SCLlistDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
20147: procedure WebScanner1Click(Sender: TObject);
20148: procedure mnToolbar1Click(Sender: TObject);
20149: procedure mnStatusbar2Click(Sender: TObject);
20150: procedure mnConsole2Click(Sender: TObject);
20151: procedure mnCoolbar2Click(Sender: TObject);
20152: procedure mnSplitter2Click(Sender: TObject);
20153: procedure WebServer1Click(Sender: TObject);
20154: procedure PerlSyntax1Click(Sender: TObject);
20155: procedure PythonSyntax1Click(Sender: TObject);
20156: procedure DMathLibrary1Click(Sender: TObject);
20157: procedure IntfNavigator1Click(Sender: TObject);
20158: procedure FullTextFinder1Click(Sender: TObject);
20159: function AppName: string;
20160: function ScriptName: string;
20161: function LastName: string;
20162: procedure FractalDemo1Click(Sender: TObject);
20163: procedure SimuLogBox1Click(Sender: TObject);
20164: procedure OpenExamples1Click(Sender: TObject);
20165: procedure Halt1Click(Sender: TObject);
20166: procedure Stop;
20167: procedure CodeSearch1Click(Sender: TObject);
20168: procedure RubySyntax1Click(Sender: TObject);
20169: procedure Undo1Click(Sender: TObject);
20170: procedure LinuxShellScript1Click(Sender: TObject);
20171: procedure WebScannerDirect(urls: string);
```

```

20172: procedure WebScanner(urls: string);
20173: procedure LoadInterfaceList2;
20174: procedure DLLSpy1Click(Sender: TObject);
20175: procedure Memo1DblClick(Sender: TObject);
20176: procedure URILinksClicks1Click(Sender: TObject);
20177: procedure GotoLine1Click(Sender: TObject);
20178: procedure ConfigFile1Click(Sender: TObject);
20179: Procedure Sort1IntlistClick( Sender : TObject)
20180: Procedure RedolClick( Sender : TObject)
20181: Procedure Tutorial24CleanCode1Click( Sender : TObject)
20182: Procedure IndentSelection1Click( Sender : TObject)
20183: Procedure UnindentSection1Click( Sender : TObject)
20184: Procedure SkyStyle1Click( Sender : TObject)
20185: Procedure CountWords1Click( Sender : TObject)
20186: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark)
20187: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
20188: Procedure Bookmark11Click( Sender : TObject)
20189: Procedure Bookmark21Click( Sender : TObject)
20190: Procedure Bookmark31Click( Sender : TObject)
20191: Procedure Bookmark41Click( Sender : TObject)
20192: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
20193: 'STATMemoryReport', 'boolean', iptrw);
20194: 'IPPort', 'integer', iptrw);
20195: 'COMPort', 'integer', iptrw);
20196: 'lbintlist', 'TListBox', iptrw);
20197: Function GetStatChange : boolean
20198: Procedure SetStatChange( vstat : boolean)
20199: Function GetActFileName : string
20200: Procedure SetActFileName( vname : string)
20201: Function GetLastFileName : string
20202: Procedure SetLastFileName( vname : string)
20203: Procedure WebScannerDirect( urls : string)
20204: Procedure LoadInterfaceList2
20205: Function GetStatExecuteShell : boolean
20206: Procedure DoEditorExecuteCommand( EditorCommand : word)
20207: function GetActiveLineColor: TColor
20208: procedure SetActiveLineColor(acolor: TColor)
20209: procedure ScriptListbox1Click(Sender: TObject);
20210: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
20211: procedure EnlargeGutter1Click(Sender: TObject);
20212: procedure Tetris1Click(Sender: TObject);
20213: procedure ToDoList1Click(Sender: TObject);
20214: procedure ProcessList1Click(Sender: TObject);
20215: procedure MetricReport1Click(Sender: TObject);
20216: procedure ProcessList1Click(Sender: TObject);
20217: procedure TCPSockets1Click(Sender: TObject);
20218: procedure ConfigUpdate1Click(Sender: TObject);
20219: procedure ADOWorkbench1Click(Sender: TObject);
20220: procedure SocketServer1Click(Sender: TObject);
20221: procedure FormDemolClick(Sender: TObject);
20222: procedure Richedit1Click(Sender: TObject);
20223: procedure SimpleBrowser1Click(Sender: TObject);
20224: procedure DOSShell1Click(Sender: TObject);
20225: procedure SynExport1Click(Sender: TObject);
20226: procedure ExporttoRTF1Click(Sender: TObject);
20227: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
20228: procedure SOAPTester1Click(Sender: TObject);
20229: procedure Sniffer1Click(Sender: TObject);
20230: procedure AutoDetectSyntax1Click(Sender: TObject);
20231: procedure FPPlot1Click(Sender: TObject);
20232: procedure PasStyle1Click(Sender: TObject);
20233: procedure Tutorial183RGBLED1Click(Sender: TObject);
20234: procedure Reversi1Click(Sender: TObject);
20235: procedure ManualmaxBox1Click(Sender: TObject);
20236: procedure BlaisePascalMagazine1Click(Sender: TObject);
20237: procedure AddToDolClick(Sender: TObject);
20238: procedure CreateGUID1Click(Sender: TObject);
20239: procedure Tutorial27XML1Click(Sender: TObject);
20240: procedure CreateDLLStub1Click(Sender: TObject);
20241: procedure Tutorial28DLL1Click(Sender: TObject);');
20242: procedure ResetKeyPressed;');
20243: procedure KeyPressedFalse;
20244: procedure FileChanges1Click(Sender: TObject);');
20245: procedure OpenGLtry1Click(Sender: TObject);');
20246: procedure AllUnitList1Click(Sender: TObject);');
20247: procedure Tutorial29UMLClick(Sender: TObject);
20248: procedure CreateHeader1Click(Sender: TObject);
20249: procedure Oscilloscope1Click(Sender: TObject);');
20250: procedure Tutorial30WOT1Click(Sender: TObject);');
20251: procedure GetWebScript1Click(Sender: TObject);');
20252: procedure Checkers1Click(Sender: TObject);');
20253: procedure TaskMgr1Click(Sender: TObject);');
20254: procedure WebCam1Click(Sender: TObject);');

20255:
20256:
20257: //-----
20258: //*****mX4 Editor SynEdit Tools API *****
20259: //-----
20260: procedure SIRegister_TCustomSynEdit(CL: TPPascalCompiler);

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```

20261: begin
20262:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
20263:   with FindClass('TCustomControl','TCustomSynEdit') do begin
20264:     Constructor Create( AOwner : TComponent )
20265:     SelStart', 'Integer', iptrw);
20266:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
20267:     Procedure UpdateCaret
20268:     Procedure AddKey(Command: TSynEditorCommand; Key1:word;SS1:TShiftState; Key2:word;SS2:TShiftState);
20269:     Procedure AddKey(Command: TSynEditorCommand; Key1:word;SS1:TShiftState; Key2: word;SS2:TShiftState);
20270:     Procedure BeginUndoBlock
20271:     Procedure BeginUpdate
20272:     Function CaretInView : Boolean
20273:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
20274:     Procedure Clear
20275:     Procedure ClearAll
20276:     Procedure ClearBookMark( BookMark : Integer )
20277:     Procedure ClearSelection
20278:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
20279:     Procedure ClearUndo
20280:     Procedure CopyToClipboard
20281:     Procedure CutToClipboard
20282:     Procedure DoCopyToClipboard( const SText : string )
20283:     Procedure EndUndoBlock
20284:     Procedure EndUpdate
20285:     Procedure EnsureCursorPosVisible
20286:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
20287:     Procedure FindMatchingBracket
20288:     Function GetMatchingBracket : TBufferCoord
20289:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
20290:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
20291:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
20292:     Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attr
20293:       : TSynHighlighterAttributes ) : boolean
20294:     Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
20295:       var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
20296:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
20297:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
20298:     Procedure GotoBookMark( BookMark : Integer )
20299:     Procedure GotoLineAndCenter( ALine : Integer )
20300:     Function IdentChars : TSynIdentChars
20301:     Procedure InvalidateGutter
20302:     Procedure InvalidateGutterLine( aLine : integer )
20303:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
20304:     Procedure InvalidateLine( Line : integer )
20305:     Procedure InvalidateLines( FirstLine, LastLine : integer )
20306:     Procedure InvalidateSelection
20307:     Function IsBookmark( BookMark : integer ) : boolean
20308:     Function IsPointInSelection( const Value : TBufferCoord ) : boolean
20309:     Procedure LockUndo
20310:     Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
20311:     Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
20312:     Function LineToRow( aLine : integer ) : integer
20313:     Function RowToLine( aRow : integer ) : integer
20314:     Function NextWordPos : TBufferCoord
20315:     Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
20316:     Procedure PasteFromClipboard
20317:     Function WordStart : TBufferCoord
20318:     Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
20319:     Function WordEnd : TBufferCoord
20320:     Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
20321:     Function PrevWordPos : TBufferCoord
20322:     Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
20323:     Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
20324:     Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
20325:     Procedure Redo
20326:     Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer );
20327:     Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
20328:     Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
20329:     Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
20330:     Procedure SelectAll
20331:     Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
20332:     Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
20333:     Procedure SetDefaultKeystrokes
20334:     Procedure SetSelWord
20335:     Procedure SetWordBlock( Value : TBufferCoord )
20336:     Procedure Undo
20337:     Procedure UnlockUndo
20338:     Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
20339:     Procedure AddKeyUpHandler( aHandler : TKeyEvent )
20340:     Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
20341:     Procedure AddKeyDownHandler( aHandler : TKeyEvent )
20342:     Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
20343:     Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
20344:     Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
20345:     Procedure AddFocusControl( aControl : TWinControl )
20346:     Procedure RemoveFocusControl( aControl : TWinControl )
20347:     Procedure AddMouseDownHandler( aHandler : TMouseEvent )
20348:     Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
20349:     Procedure AddMouseUpHandler( aHandler : TMouseEvent )

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20350: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
20351: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent )
20352: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent )
20353: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
20354: Procedure RemoveLinesPointer
20355: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
20356: Procedure UnHookTextBuffer
20357: BlockBegin', 'TBufferCoord', iptrw);
20358: BlockEnd', 'TBufferCoord', iptrw);
20359: CanPaste', 'Boolean', iptr);
20360: CanRedo', 'boolean', iptr);
20361: CanUndo', 'boolean', iptr);
20362: CaretX', 'Integer', iptrw);
20363: CaretY', 'Integer', iptrw);
20364: CaretXY', 'TBufferCoord', iptrw);
20365: ActiveLineColor', 'TColor', iptrw);
20366: DisplayX', 'Integer', iptr);
20367: DisplayY', 'Integer', iptr);
20368: DisplayXY', 'TDisplayCoord', iptr);
20369: DisplayLineCount', 'integer', iptr);
20370: CharsInWindow', 'Integer', iptr);
20371: CharWidth', 'integer', iptr);
20372: Font', 'TFont', iptrw);
20373: GutterWidth', 'Integer', iptr);
20374: Highlighter', 'TSynCustomHighlighter', iptrw);
20375: LeftChar', 'Integer', iptrw);
20376: LineHeight', 'integer', iptr);
20377: LinesInWindow', 'Integer', iptr);
20378: LineText', 'string', iptrw);
20379: Lines', 'TStrings', iptrw);
20380: Marks', 'TSynEditMarkList', iptr);
20381: MaxScrollWidth', 'integer', iptrw);
20382: Modified', 'Boolean', iptrw);
20383: PaintLock', 'Integer', iptr);
20384: ReadOnly', 'Boolean', iptrw);
20385: SearchEngine', 'TSynEditSearchCustom', iptrw);
20386: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
20387: SelTabBlock', 'Boolean', iptr);
20388: SelTabLine', 'Boolean', iptr);
20389: SelText', 'string', iptrw);
20390: StateFlags', 'TSynStateFlags', iptr);
20391: Text', 'string', iptrw);
20392: TopLine', 'Integer', iptrw);
20393: WordAtCursor', 'string', iptr);
20394: WordAtMouse', 'string', iptr);
20395: UndoList', 'TSynEditUndoList', iptr);
20396: RedoList', 'TSynEditUndoList', iptr);
20397: OnProcessCommandEvent', 'TProcessCommandEvent', iptrw);
20398: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
20399: BorderStyle', 'TSynBorderStyle', iptrw);
20400: ExtraLinesSpacing', 'integer', iptrw);
20401: Gutter', 'TSynGutter', iptrw);
20402: HideSelection', 'boolean', iptrw);
20403: InsertCaret', 'TSynEditCaretType', iptrw);
20404: InsertMode', 'boolean', iptrw);
20405: IsScrolling', 'Boolean', iptr);
20406: Keystrokes', 'TSynEditKeyStrokes', iptrw);
20407: MaxUndo', 'Integer', iptrw);
20408: Options', 'TSynEditorOptions', iptrw);
20409: OverwriteCaret', 'TSynEditCaretType', iptrw);
20410: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
20411: ScrollHintColor', 'TColor', iptrw);
20412: ScrollHintFormat', 'TScrollHintFormat', iptrw);
20413: ScrollBars', 'TScrollStyle', iptrw);
20414: SelectedColor', 'TSynSelectedColor', iptrw);
20415: SelectionMode', 'TSynSelectionMode', iptrw);
20416: ActiveSelectionMode', 'TSynSelectionMode', iptrw);
20417: TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
20418: WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
20419: WordWrapGlyph', 'TSynGlyph', iptrw);
20420: OnChange', 'TNotifyEvent', iptrw);
20421: OnClearBookmark', 'TPlaceMarkEvent', iptrw);
20422: OnCommandProcessed', 'TProcessCommandEvent', iptrw);
20423: OnContextHelp', 'TContextHelpEvent', iptrw);
20424: OnDropFiles', 'TDropFilesEvent', iptrw);
20425: OnGutterClick', 'TGutterClickEvent', iptrw);
20426: OnGutterGetText', 'TGutterGetTextEvent', iptrw);
20427: OnGutterPaint', 'TGutterPaintEvent', iptrw);
20428: OnMouseCursor', 'TMouseCursorEvent', iptrw);
20429: OnPaint', 'TPaintEvent', iptrw);
20430: OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
20431: OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
20432: OnReplaceText', 'TReplaceTextEvent', iptrw);
20433: OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
20434: OnStatusChange', 'TStatusChangeEvent', iptrw);
20435: OnPaintTransient', 'TPaintTransient', iptrw);
20436: OnScroll', 'TScrollEvent', iptrw);
20437: end;
20438: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)

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20439: Function GetPlaceableHighlighters : TSynHighlighterList
20440: Function EditorCommandToDescrString( Cmd : TSynEditorCommand ) : string
20441: Function EditorCommandToCodeString( Cmd : TSynEditorCommand ) : string
20442: Procedure GetEditorCommandValues( Proc : TGetStrProc )
20443: Procedure GetEditorCommandExtended( Proc : TGetStrProc )
20444: Function IdentToEditorCommand( const Ident : string; var Cmd : longint ) : boolean
20445: Function EditorCommandToIdent( Cmd : longint; var Ident : string ) : boolean
20446: Function ConvertCodeStringToExtended( AString : String ) : String
20447: Function ConvertExtendedToCodeString( AString : String ) : String
20448: Function ConvertExtendedToCommand( AString : String ) : TSynEditorCommand
20449: Function ConvertCodeStringToCommand( AString : String ) : TSynEditorCommand
20450: Function IndexToEditorCommand( const AIndex : Integer ) : Integer
20451:
20452: TSynEditorOption = (
20453:   eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
20454:   eoAutoIndent,                //Will indent caret on newlines with same amount of leading whitespace as
20455:                           // preceding line
20456:   eoAutoSizeMaxScrollWidth,    //Automatically resizes the MaxScrollWidth property when inserting text
20457:   eoDisableScrollArrows,       //Disables the scroll bar arrow buttons when you can't scroll in that
20458:                           //direction any more
20459:   eoDragDropEditing,          //Allows to select a block of text and drag it within document to another
20460:                           // location
20461:   eoDropFiles,                 //Allows the editor accept OLE file drops
20462:   eoEnhanceHomeKey,           //enhances home key positioning, similar to visual studio
20463:   eoEnhanceEndKey,            //enhances End key positioning, similar to JDeveloper
20464:   eoGroupUndo,                 //When undoing/redoing actions, handle all continuous changes the same kind
20465:                           // in one call
20466:                           //instead undoing/redoing each command separately
20467:   eoHalfPageScroll,           //When scrolling with page-up and page-down commands, only scroll a half
20468:                           //page at a time
20469:   eoHideShowScrollbars,        //if enabled, then scrollbars will only show if necessary.
20470:   If you have ScrollPasteEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
20471:   eoKeepCaretX,               //When moving through lines w/o cursor Past EOL, keeps X position of cursor
20472:   eoNoCaret,                  //Makes it so the caret is never visible
20473:   eoNoSelection,               //Disables selecting text
20474:   eoRightMouseMovesCursor,    //When clicking with right mouse for popup menu, moves cursor to location
20475:   eoScrollByOneLess,           //Forces scrolling to be one less
20476:   eoScrollHintFollows,         //The scroll hint follows the mouse when scrolling vertically
20477:   eoScrollPastEof,             //Allows the cursor to go past the end of file marker
20478:   eoScrollPasteEol,            //Allows cursor to go past last character into white space at end of a line
20479:   eoShowScrollHint,            //Shows a hint of the visible line numbers when scrolling vertically
20480:   eoShowSpecialChars,          //Shows the special Characters
20481:   eoSmartTabDelete,            //similar to Smart Tabs, but when you delete characters
20482:   eoSmartTabs,                 //When tabbing, cursor will go to non-white space character of previous line
20483:   eoSpeciallineDefaultFg,      //disables the foreground text color override using OnSpecialLineColor event
20484:   eoTabIndent,                 //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
20485:   eoTabsToSpaces,               //Converts a tab character to a specified number of space characters
20486:   eoTrimTrailingSpaces,        //Spaces at the end of lines will be trimmed and not saved
20487:
20488: *****Important Editor Short Cuts*****;
20489: Double click to select a word and count words with highlighting.
20490: Triple click to select a line.
20491: CTRL+SHIFT+click to extend a selection.
20492: Drag with the ALT key down to select columns of text !!!
20493: Drag and drop is supported.
20494: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
20495: Type CTRL+A to select all.
20496: Type CTRL+N to set a new line.
20497: Type CTRL+T to delete a line or token. //Tokenizer
20498: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
20499: Type CTRL+Shift+T to add ToDo in line and list.
20500: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
20501: Type CTRL[0..9] to jump or get to bookmarks.
20502: Type Home to position cursor at beginning of current line and End to position it at end of line.
20503: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
20504: Page Up and Page Down work as expected.
20505: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
20506: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
20507:
20508: {$ Short Key Positions Ctrl<A-Z>: }
20509: def
20510:   <A> Select All
20511:   <B> Count Words
20512:   <C> Copy
20513:   <D> Internet Start
20514:   <E> Script List
20515:   <F> Find
20516:   <G> Goto
20517:   <H> Mark Line
20518:   <I> Interface List
20519:   <J> Code Completion
20520:   <K> Console
20521:   <L> Interface List Box
20522:   <M> Font Larger -
20523:   <N> New Line
20524:   <O> Open File
20525:   <P> Font Smaller +
20526:   <Q> Quit
20527:   <R> Replace

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20528:   <S> Save!
20529:   <T> Delete Line
20530:   <U> Use Case Editor
20531:   <V> Paste
20532:   <W> URI Links
20533:   <X> Reserved for coding use internal
20534:   <Y> Delete Line
20535:   <Z> Undo
20536:
20537: ref
20538:   F1 Help
20539:   F2 Syntax Check
20540:   F3 Search Next
20541:   F4 New Instance
20542:   F5 Line Mark /Breakpoint
20543:   F6 Goto End
20544:   F7 Debug Step Into
20545:   F8 Debug Step Out
20546:   F9 Compile
20547:   F10 Menu
20548:   F11 Word Count Highlight
20549:   F12 Reserved for coding use internal
20550:
20551: def ReservedWords: array[0..82] of string =
20552:   ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
20553:   'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',
20554:   'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
20555:   'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
20556:   'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
20557:   'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
20558:   'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
20559:   'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
20560:   'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
20561:   'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
20562:   'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
20563: AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ',', ',', t,t1,t2,t3: boolean;
20564: //-----
20565: //*****End of mX4 Public Tools API *****
20566: //-----
20567: //-----
20568: Amount of Functions: 13140
20569: Amount of Procedures: 8079
20570: Amount of Constructors: 1301
20571: Totals of Calls: 22520
20572: SHA1: Win Exe 3.9.9.98 4C7A84045994D69DA0131D3E518D9B4901F20C5D
20573:
20574:
20575: ****
20576: Doc Short Manual with 50 Tips!
20577: ****
20578: - Install: just save your maxboxdef.ini before and then extract the zip file!
20579: - Toolbar: Click on the red maxBox Sign (right on top) opens your work directory or jump to <Help>
20580: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
20581: - Menu: With <Ctrl><F3> you can search for code on examples
20582: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
20583: - Menu: Set Interface Naviagator in menu /View/Intf Navigator
20584: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
20585:
20586: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
20587: - Inifile: Refresh (reload) the inifile after edit with ..\Help\Config Update
20588: - Context Menu: You can printout your scripts as a pdf-file or html-export
20589: - Context: You do have a context menu with the right mouse click
20590:
20591: - Menu: With the UseCase Editor you can convert graphic formats too.
20592: - Menu: On menu Options you find Addons as compiled scripts
20593: - IDE: You don't need a mouse to handle maxBox, use shortcuts
20594: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
20595: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
20596: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
20597:   or ttimer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
20598:
20599: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
20600: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
20601: - Code: If you code a loop till key-pressed use function: isKeyPressed;
20602: - Code: Macro set the macros #name,, #paAdministrator, #file,startmaxbox_extract_funcList399.txt
20603: - Code: change Syntax in autoboot macro 'maxbootscript.txt'
20604: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
20605:   to delete and Click and mark to drag a bookmark
20606: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
20607: - IDE: A file info with system and script information you find in menu Program/Information
20608: - IDE: After change the config file in help you can update changes in menu Help/Config Update
20609: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
20610: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
20611: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
20612: - Editor: Set Bookmarks to check your work in app or code
20613: - Editor: With <Ctrl H> you set {$Active Line Color} and F11 you get Word Count Statistic on Output too
20614: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..\Help/ToDo List
20615: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
20616:

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20617: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
20618: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
20619: - Menu: Set Interface Navigator also with toolbar <Ctrl L> or /View/Intf Navigator
20620: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
20621: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
20622: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
20623: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
20624: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
20625:
20626: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
20627: - Add on when no browser is available start /Options/Add ons/Easy Browser
20628: - Add on SOAP Tester with SOP POST File
20629: - Add on IP Protocol Sniffer with List View
20630: - Add on OpenGL mX Robot Demo for android
20631:
20632: - Menu: Help/Tools as a Tool Section with DOS Opener
20633: - Menu Editor: export the code as RTF File
20634: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
20635: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
20636: - Context: Auto Detect of Syntax depending on file extension
20637: - Code: some Windows API function start with w in the name like wGetAtomName();
20638: - IDE Close - if you can't close the box then reset it <Ctrl F2> in menu /Debug
20639: - IDE File Check with menu ..View/File Changes/...
20640: - Context: Create a Header with Create Header in Navigator List at right window
20641: - Code: use SysErrorMessage to get a real Error Description, Ex.
20642:     RemoveDir('c:\NoSuchFolder');
20643:     writeln('System Error Message: ' + SysErrorMessage(GetLastError));
20644: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
20645:
20646: - using DLL example in maxbox: //function: {*****}
20647:     Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
20648:                                         cb: DWORD): BOOL; //stdcall;
20649:     External 'GetProcessMemoryInfo@psapi.dll stdcall';
20650:     Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
20651:     External 'OpenProcess@kernel32.dll stdcall';
20652:
20653: GCC Compile Ex Script
20654: procedure TFormMain_btnCompileClick(Sender: TObject);
20655: begin
20656:   AProcess:= TProcess.Create(Nil);
20657:   try
20658:     AProcess.CommandLine := 'gcc.exe "' + OpenDialog1.FileName + '"'
20659:     + ' -o "' + OpenDialog2.FileName + '"';
20660:   AProcess.Options:= AProcess.Options + [poWaitOnExit, poUsePipes];
20661:   AProcess.Execute;
20662:   Memo2.Lines.BeginUpdate;
20663:   Memo2.Lines.Clear;
20664:   Memo2.Lines.LoadFromStream(AProcess.Output);
20665:   Memo2.Lines.EndUpdate;
20666:   finally
20667:     AProcess.Free;
20668:   end;
20669: end;
20670:
20671:
20672: History Shell Hell
20673: PCT Precompile Technology , mX4 ScriptStudio
20674: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
20675: DMATH, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
20676: emax layers: system-package-component-unit-class-function-block
20677: new keywords def ref using maxCalcF
20678: UML: use case act class state seq pac comp dep - lib lab
20679: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
20680: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
20681: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
20682: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
20683: 1 DLL Report, 24 Units add, DRTable, Remote+, Cindy functions!
20684: DLL Report, UML Tutor, 32 Units add, DRTable, Remote+, Cindy functions!
20685: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
20686: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, Paradise 3D Cube Polygraph, OCR
20687: GetScript or GetWebScript, GPS Example, Profiler, Checkers, Toolbox commons
20688: Add 15 Units, Wav resources, RoundTo, OpenOffice, Pipes
20689: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
20690: Inno Install and Setup Routines
20691: Add 32 Units, Wav res, RoundTo, OpenOffice, Pipes, GSM2
20692: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
20693: Vfw (Video), FindFirst3, ResFiler, AssemblyCache
20694:
20695:
20696: https://unibe-ch.academia.edu/MaxKleiner
20697: www.slideshare.net/maxkleiner1
20698: http://www.scribd.com/max_kleiner
20699: http://www.delphiforfun.org/Programs/Utilities/index.htm
20700: http://www.slideshare.net/maxkleiner1
20701: http://s3.amazonaws.com/PreviewLinks/22959.html
20702: http://www.softwareschule.ch/arduino_training.pdf
20703: http://www.jrsoftware.org/isinfo.php
20704: http://www.be-precision.com/products/precision-builder/express/
20705: http://www.blaisepascal.eu/

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20706:
20707:
20708: ****
20709: unit List asm internal end
20710: ****
20711: 01 unit RIRegister_StrUtils_Routines(exec); //Delphi
20712: 02 unit SIRegister_IdStrings //Indy Sockets
20713: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
20714: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
20715: 05 unit IFSI_WinFormlpuzzle; //maXbox
20716: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImageFileLibBCB
20717: 07 unit RegisterDateTimelibrary_R(exec); //Delphi
20718: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
20719: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
20720: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
20721: 11 unit uPSI_IdTCPConnection; //Indy some functions
20722: 12 unit uPSCompiler.pas; //PS kernel functions
20723: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
20724: 14 unit uPSI_Printers.pas //Delphi VCL
20725: 15 unit uPSI_MPlayer.pas //Delphi VCL
20726: 16 unit uPSC_comobj; //COM Functions
20727: 17 unit uPSI_Clipbrd; //Delphi VCL
20728: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
20729: 19 unit uPSI_SqlExpr; //DBX3
20730: 20 unit uPSI_AdodB; //ADODB
20731: 21 unit uPSI_StrHlpr; //String Helper Routines
20732: 22 unit uPSI_DateUtils; //Expansion to DateTimelib
20733: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
20734: 24 unit JUutils / gsUtils; //Jedi / Metabase
20735: 25 unit JvFunctions_max; //Jedi Functions
20736: 26 unit HTTPParser; //Delphi VCL
20737: 27 unit HTTPUtil; //Delphi VCL
20738: 28 unit uPSI_XMLUtil; //Delphi VCL
20739: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
20740: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
20741: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
20742: 32 unit uPSI_MyBigInt; //big integer class with Math
20743: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
20744: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
20745: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
20746: 36 unit uPSI_IdHashMessageDigest //Indy Crypto;
20747: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
20748: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
20749: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
20750: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto &OpenSSL;
20751: 41 unit uPSI_FileCtrl; //Delphi RTL
20752: 42 unit uPSI_Outline; //Delphi VCL
20753: 43 unit uPSI_ScktComp; //Delphi RTL
20754: 44 unit uPSI_Calendar; //Delphi VCL
20755: 45 unit uPSI_VListView; //VListView;
20756: 46 unit uPSI_DBGrids; //Delphi VCL
20757: 47 unit uPSI_DBCtrls; //Delphi VCL
20758: 48 unit ide_debugoutput; //maXbox
20759: 49 unit uPSI_ComCtrls; //Delphi VCL
20760: 50 unit uPSC_stdcrtls+; //Delphi VCL
20761: 51 unit uPSI_Dialogs; //Delphi VCL
20762: 52 unit uPSI_StdConvs; //Delphi RTL
20763: 53 unit uPSI_DBClient; //Delphi RTL
20764: 54 unit uPSI_DBPlatform; //Delphi RTL
20765: 55 unit uPSI_Provider; //Delphi RTL
20766: 56 unit uPSI_FMTBcd; //Delphi RTL
20767: 57 unit uPSI_DBCGrids; //Delphi VCL
20768: 58 unit uPSI_CDSSUtil; //MIDAS
20769: 59 unit uPSI_VarHlpr; //Delphi RTL
20770: 60 unit uPSI_ExtdLggs; //Delphi VCL
20771: 61 unit sdpStopwatch; //maXbox
20772: 62 unit uPSI_JclStatistics; //JCL
20773: 63 unit uPSI_JclLogic; //JCL
20774: 64 unit uPSI_JclMiscel; //JCL
20775: 65 unit uPSI_JclMath_max; //JCL RTL
20776: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3
20777: 67 unit uPSI_MathUtils; //BCB
20778: 68 unit uPSI_JclMultimedia; //JCL
20779: 69 unit uPSI_WideStrUtils; //Delphi API/RTL
20780: 70 unit uPSI_GraphUtil; //Delphi RTL
20781: 71 unit uPSI_TypeTrans; //Delphi RTL
20782: 72 unit uPSI_HTTPApp; //Delphi VCL
20783: 73 unit uPSI_DBWeb; //Delphi VCL
20784: 74 unit uPSI_DBBdeWeb; //Delphi VCL
20785: 75 unit uPSI_DBXpressWeb; //Delphi VCL
20786: 76 unit uPSI_ShadowWnd; //Delphi VCL
20787: 77 unit uPSI_ToolWin; //Delphi VCL
20788: 78 unit uPSI_Tabs; //Delphi VCL
20789: 79 unit uPSI_JclGraphUtils; //JCL
20790: 80 unit uPSI_JclCounter; //JCL
20791: 81 unit uPSI_JclSysInfo; //JCL
20792: 82 unit uPSI_JclSecurity; //JCL
20793: 83 unit uPSI_JclFileUtils; //JCL
20794: 84 unit uPSI_IdUserAccounts; //Indy

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20795: 85 unit uPSI_IdAuthentication;                                //Indy
20796: 86 unit uPSI_uTPLb_AES;                                     //LockBox 3
20797: 87 unit uPSI_IdHashSHA1;                                    //LockBox 3
20798: 88 unit uTPLb_BlockCipher;                                  //LockBox 3
20799: 89 unit uPSI_ValueEdit.pas;                                 //Delphi VCL
20800: 90 unit uPSI_JvVCLUtils;                                 //JCL
20801: 91 unit uPSI_JvDBUtil;                                   //JCL
20802: 92 unit uPSI_JvDBUtils;                                 //JCL
20803: 93 unit uPSI_JvAppUtils;                                //JCL
20804: 94 unit uPSI_JvCtrlUtils;                               //JCL
20805: 95 unit uPSI_JvFormToHtml;                             //JCL
20806: 96 unit uPSI_JvParsing;                                //JCL
20807: 97 unit uPSI_SerDlg;                                    //Toolbox
20808: 98 unit uPSI_Serial;                                 //Toolbox
20809: 99 unit uPSI_JvComponent;                            //JCL
20810: 100 unit uPSI_JvCalc;                                 //JCL
20811: 101 unit uPSI_JvBdeUtils;                            //JCL
20812: 102 unit uPSI_JvDateUtil;                           //JCL
20813: 103 unit uPSI_JvGenetic;                            //JCL
20814: 104 unit uPSI_JclBase;                                //JCL
20815: 105 unit uPSI_JvUtils;                                //JCL
20816: 106 unit uPSI_JvStrUtil;                            //JCL
20817: 107 unit uPSI_JvStrUtils;                           //JCL
20818: 108 unit uPSI_JvFileUtil;                           //JCL
20819: 109 unit uPSI_JvMemoryInfos;                         //JCL
20820: 110 unit uPSI_JvComputerInfo;                        //JCL
20821: 111 unit uPSI_JvgCommClasses;                      //JCL
20822: 112 unit uPSI_JvgLogics;                            //JCL
20823: 113 unit uPSI_JvLED;                                //JCL
20824: 114 unit uPSI_JvTurtle;                             //JCL
20825: 115 unit uPSI_SortThds; unit uPSI_ThSort;          //maxBox
20826: 116 unit uPSI_JvgUtils;                            //JCL
20827: 117 unit uPSI_JvExprParser;                          //JCL
20828: 118 unit uPSI_HexDump;                            //Borland
20829: 119 unit uPSI_DBLogDlg;                           //VCL
20830: 120 unit uPSI_SqlTimSt;                            //RTL
20831: 121 unit uPSI_JvHtmlParser;                          //JCL
20832: 122 unit uPSI_JvgXMLSerializer;                     //JCL
20833: 123 unit uPSI_JvJCLUtils;                           //JCL
20834: 124 unit uPSI_JvStrings;                            //JCL
20835: 125 unit uPSI_uTPLb_IntegerUtils;                  //TurboPower
20836: 126 unit uPSI_uTPLb_HugeCardinal;                 //TurboPower
20837: 127 unit uPSI_uTPLb_HugeCardinalUtils;            //TurboPower
20838: 128 unit uPSI_SynRegExpr;                           //SynEdit
20839: 129 unit uPSI_StUtils;                            //SysTools4
20840: 130 unit uPSI_StToHTML;                            //SysTools4
20841: 131 unit uPSI_StStrms;                            //SysTools4
20842: 132 unit uPSI_StFIN;                                //SysTools4
20843: 133 unit uPSI_StAstroP;                            //SysTools4
20844: 134 unit uPSI_StStat;                            //SysTools4
20845: 135 unit uPSI_StNetCon;                           //SysTools4
20846: 136 unit uPSI_StDecMth;                           //SysTools4
20847: 137 unit uPSI_StOstr;                                //SysTools4
20848: 138 unit uPSI_StPtrns;                            //SysTools4
20849: 139 unit uPSI_StNetMsg;                            //SysTools4
20850: 140 unit uPSI_StMath;                                //SysTools4
20851: 141 unit uPSI_StExpEng;                           //SysTools4
20852: 142 unit uPSI_StCRC;                                //SysTools4
20853: 143 unit uPSI_StExport;                            //SysTools4
20854: 144 unit uPSI_StExpLog;                           //SysTools4
20855: 145 unit uPSI_ActnList;                            //Delphi VCL
20856: 146 unit uPSI_jpeg;                                //Borland
20857: 147 unit uPSI_StRandom;                           //SysTools4
20858: 148 unit uPSI_StDict;                                //SysTools4
20859: 149 unit uPSI_StBCD;                                //SysTools4
20860: 150 unit uPSI_StTxtDat;                           //SysTools4
20861: 151 unit uPSI_StRegEx;                            //SysTools4
20862: 152 unit uPSI_IMouse;                            //VCL
20863: 153 unit uPSI_SyncObjs;                           //VCL
20864: 154 unit uPSI_AsyncCalls;                          //Hausladen
20865: 155 unit uPSI_ParallelJobs;                        //Saraiva
20866: 156 unit uPSI_Variants;                            //VCL
20867: 157 unit uPSI_VarCmplx;                           //VCL Wolfram
20868: 158 unit uPSI_DTDSchema;                           //VCL
20869: 159 unit uPSI_ShLwApi;                            //Brakel
20870: 160 unit uPSI_IBUtils;                            //VCL
20871: 161 unit uPSI_CheckLst;                            //VCL
20872: 162 unit uPSI_JvSimpleXml;                         //JCL
20873: 163 unit uPSI_JclSimpleXml;                        //JCL
20874: 164 unit uPSI_JvXmlDatabase;                      //JCL
20875: 165 unit uPSI_JvMaxPixel;                           //JCL
20876: 166 unit uPSI_JvItemsSearchs;                      //JCL
20877: 167 unit uPSI_StExpEng2;                           //SysTools4
20878: 168 unit uPSI_StGenLog;                            //SysTools4
20879: 169 unit uPSI_JvLogFile;                           //Jcl
20880: 170 unit uPSI_CPort;                                //ComPort Lib v4.11
20881: 171 unit uPSI_CPortCtl;                            //ComPort
20882: 172 unit uPSI_CPortEsc;                            //ComPort
20883: 173 unit BarCodeScanner;                           //ComPort

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20884: 174 unit uPSI_JvGraph;                                //JCL
20885: 175 unit uPSI_JvComCtrls;                            //JCL
20886: 176 unit uPSI_GUITesting;                           //D Unit
20887: 177 unit uPSI_JvFindFiles;                           //JCL
20888: 178 unit uPSI_StSystem;                             //SysTools4
20889: 179 unit uPSI_JvKeyboardStates;                      //JCL
20890: 180 unit uPSI_JvMail;                               //JCL
20891: 181 unit uPSI_JclConsole;                           //JCL
20892: 182 unit uPSI_JclLANMan;                            //JCL
20893: 183 unit uPSI_IdCustomHTTPServer;                   //Indy
20894: 184 unit IdHTTPServer;                            //Indy
20895: 185 unit uPSI_IdTCPServer;                          //Indy
20896: 186 unit uPSI_IdSocketHandle;                      //Indy
20897: 187 unit uPSI_IdIOHandlerSocket;                   //Indy
20898: 188 unit IdIOHandler;                            //Indy
20899: 189 unit uPSI_utils;                             //Bloodshed
20900: 190 unit uPSI-BoldUtils;                           //boldsoft
20901: 191 unit uPSI_IdSimpleServer;                      //Indy
20902: 192 unit uPSI_IdSSLOpenSSL;                         //Indy
20903: 193 unit uPSI_IdMultipartFormData;                 //Indy
20904: 194 unit uPSI_SynURIOpener;                        //SynEdit
20905: 195 unit uPSI_PerlRegEx;                           //PCRE
20906: 196 unit uPSI_IdHeaderList;                         //Indy
20907: 197 unit uPSI_StFirst;                            //SysTools4
20908: 198 unit uPSI_JvCtrls;                            //JCL
20909: 199 unit uPSI_IdTrivialFTPBase;                   //Indy
20910: 200 unit uPSI_IdTrivialFTP;                        //Indy
20911: 201 unit uPSI_IdUDPBase;                           //Indy
20912: 202 unit uPSI_IdUDPClient;                         //Indy
20913: 203 unit uPSI_utypes;                            //for DMath.DLL
20914: 204 unit uPSI_ShellAPI;                           //Borland
20915: 205 unit uPSI_IdRemoteCMDClient;                  //Indy
20916: 206 unit uPSI_IdRemoteCMDServer;                  //Indy
20917: 207 unit IdRexecServer;                           //Indy
20918: 208 unit IdRexec; (unit uPSI_IdRexec);           //Indy
20919: 209 unit IdUDPServer;                            //Indy
20920: 210 unit IdTimeUDPServer;                         //Indy
20921: 211 unit IdTimeServer;                            //Indy
20922: 212 unit IdTimeUDPI; (unit uPSI_IdUDPServer);    //Indy
20923: 213 unit uPSI_IdIPWatch;                          //Indy
20924: 214 unit uPSI_IdIrcServer;                         //Indy
20925: 215 unit uPSI_IdMessageCollection;                //Indy
20926: 216 unit uPSI_cPEM;                             //Fundamentals 4
20927: 217 unit uPSI_cFundamentUtils;                    //Fundamentals 4
20928: 218 unit uPSI_uwinplot;                           //DMath
20929: 219 unit uPSI_xrtl_util_CPUUtils;                 //ExtentedRTL
20930: 220 unit uPSI_GR32_System;                         //Graphics32
20931: 221 unit uPSI_cFileUtils;                          //Fundamentals 4
20932: 222 unit uPSI_cDateTime; (timemachine)           //Fundamentals 4
20933: 223 unit uPSI_cTimers; (high precision timer)    //Fundamentals 4
20934: 224 unit uPSI_cRandom;                            //Fundamentals 4
20935: 225 unit uPSI_ueval;                            //DMath
20936: 226 unit uPSI_xrtl_net_URIUtils;                 //ExtendedRTL
20937: 227 unit xrtl_net_URIUtils;                      //ExtendedRTL
20938: 228 unit uPSI_uftt; (FFT)                         //DMath
20939: 229 unit uPSI_DBXChannel;                         //Delphi
20940: 230 unit uPSI_DBXIndyChannel;                     //Delphi Indy
20941: 231 unit uPSI_xrtl_util_COMCat;                  //ExtendedRTL
20942: 232 unit uPSI_xrtl_util_StrUtils;                //ExtendedRTL
20943: 233 unit uPSI_xrtl_util_VariantUtils;            //ExtendedRTL
20944: 234 unit uPSI_xrtl_util_FileUtils;                //ExtendedRTL
20945: 235 unit xrtl_util_Compat;                       //ExtendedRTL
20946: 236 unit uPSI_OleAuto;                            //Borland
20947: 237 unit uPSI_xrtl_util_COMUtils;                //ExtendedRTL
20948: 238 unit uPSI_CmAdmCtl;                           //Borland
20949: 239 unit uPSI_ValEdit2;                           //VCL
20950: 240 unit uPSI_GR32; //Graphics32
20951: 241 unit uPSI_GR32_Image;                         //Graphics32
20952: 242 unit uPSI_xrtl_util_TimeUtils;                //ExtendedRTL
20953: 243 unit uPSI_xrtl_util_TimeZone;                //ExtendedRTL
20954: 244 unit uPSI_xrtl_util_TimeStamp;                //ExtendedRTL
20955: 245 unit uPSI_xrtl_util_Map;                      //ExtendedRTL
20956: 246 unit uPSI_xrtl_util_Set;                      //ExtendedRTL
20957: 247 unit uPSI_CPortMonitor;                       //ComPort
20958: 248 unit uPSI_StIniStm;                           //SysTools4
20959: 249 unit uPSI_GR32_ExtImage;                      //Graphics32
20960: 250 unit uPSI_GR32_OrdinalMaps;                  //Graphics32
20961: 251 unit uPSI_GR32_Rasterizers;                  //Graphics32
20962: 252 unit uPSI_xrtl_util_Exception;                //ExtendedRTL
20963: 253 unit uPSI_xrtl_util_Value;                   //ExtendedRTL
20964: 254 unit uPSI_xrtl_util_Compare;                 //ExtendedRTL
20965: 255 unit uPSI_FlatSB;                            //VCL
20966: 256 unit uPSI_JvAnalogClock;                      //JCL
20967: 257 unit uPSI_JvAlarms;                           //JCL
20968: 258 unit uPSI_JvSQLS;                            //JCL
20969: 259 unit uPSI_JvDBSecur;                          //JCL
20970: 260 unit uPSI_JvDBQBE;                           //JCL
20971: 261 unit uPSI_JvStarfield;                        //JCL
20972: 262 unit uPSI_JVCLMiscal;                         //JCL

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20973: 263 unit uPSI_JvProfiler32; //JCL
20974: 264 unit uPSI_JvDirectories; //JCL
20975: 265 unit uPSI_JclSchedule; //JCL
20976: 266 unit uPSI_JclSvcCtrl; //JCL
20977: 267 unit uPSI_JvSoundControl; //JCL
20978: 268 unit uPSI_JvbDESQLScript; //JCL
20979: 269 unit uPSI_JvgDigits; //JCL>
20980: 270 unit uPSI_ImgList; //TCustomImageList
20981: 271 unit uPSI_JclMIDI; //JCL>
20982: 272 unit uPSI_JclWinMidi; //JCL>
20983: 273 unit uPSI_JclNTFS; //JCL>
20984: 274 unit uPSI_JclAppInst; //JCL>
20985: 275 unit uPSI_JvRle; //JCL>
20986: 276 unit uPSI_JvRas32; //JCL>
20987: 277 unit uPSI_JvImageDrawThread; //JCL>
20988: 278 unit uPSI_JvImageWindow; //JCL>
20989: 279 unit uPSI_JvTransparentForm; //JCL>
20990: 280 unit uPSI_JvWinDialogs; //JCL>
20991: 281 unit uPSI_JvSimLogic; //JCL>
20992: 282 unit uPSI_JvSimIndicator; //JCL>
20993: 283 unit uPSI_JvSimPID; //JCL>
20994: 284 unit uPSI_JvSimPIDLinker; //JCL>
20995: 285 unit uPSI_IdRFCReply; //Indy
20996: 286 unit uPSI_IdIdent; //Indy
20997: 287 unit uPSI_IdIdentServer; //Indy
20998: 288 unit uPSI_JvPatchFile; //JCL
20999: 289 unit uPSI_StNetPfm; //SysTools4
21000: 290 unit uPSI_StNet; //SysTools4
21001: 291 unit uPSI_JclPeImage; //JCL
21002: 292 unit uPSI_JclPrint; //JCL
21003: 293 unit uPSI_JclMime; //JCL
21004: 294 unit uPSI_JvRichEdit; //JCL
21005: 295 unit uPSI_JvDBRichEd; //JCL
21006: 296 unit uPSI_JvDice; //JCL
21007: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
21008: 298 unit uPSI_JvDirFrm; //JCL
21009: 299 unit uPSI_JvDualList; //JCL
21010: 300 unit uPSI_JvSwitch; //JCL
21011: 301 unit uPSI_JvTimerLst; //JCL
21012: 302 unit uPSI_JvMemTable; //JCL
21013: 303 unit uPSI_JvObjStr; //JCL
21014: 304 unit uPSI_StLArr; //SysTools4
21015: 305 unit uPSI_StWmDCpy; //SysTools4
21016: 306 unit uPSI_StText; //SysTools4
21017: 307 unit uPSI_StNTLog; //SysTools4
21018: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
21019: 309 unit uPSI_JvImagPrvw; //JCL
21020: 310 unit uPSI_JvFormPatch; //JCL
21021: 311 unit uPSI_JvPicClip; //JCL
21022: 312 unit uPSI_JvDataConv; //JCL
21023: 313 unit uPSI_JvCpuUsage; //JCL
21024: 314 unit uPSI_JclUnitConv_mx2; //JCL
21025: 315 unit JvDualListForm; //JCL
21026: 316 unit uPSI_JvCpuUsage2; //JCL
21027: 317 unit uPSI_JvParserForm; //JCL
21028: 318 unit uPSI_JvJanTreeView; //JCL
21029: 319 unit uPSI_JvTransLED; //JCL
21030: 320 unit uPSI_JvPlaylist; //JCL
21031: 321 unit uPSI_JvFormAutoSize; //JCL
21032: 322 unit uPSI_JvYearGridEditForm; //JCL
21033: 323 unit uPSI_JvMarkupCommon; //JCL
21034: 324 unit uPSI_JvChart; //JCL
21035: 325 unit uPSI_JvXPCore; //JCL
21036: 326 unit uPSI_JvXPCoreUtils; //JCL
21037: 327 unit uPSI_StatsClasses; //mX4
21038: 328 unit uPSI_ExtCtrls2; //VCL
21039: 329 unit uPSI_JvUrlGrabbers; //JCL
21040: 330 unit uPSI_JvXmlTree; //JCL
21041: 331 unit uPSI_JvWavePlayer; //JCL
21042: 332 unit uPSI_JvUnicodeCanvas; //JCL
21043: 333 unit uPSI_JvTFUtils; //JCL
21044: 334 unit uPSI_IdServerIOHandler; //Indy
21045: 335 unit uPSI_IdServerIOSocket; //Indy
21046: 336 unit uPSI_IdMessageCoder; //Indy
21047: 337 unit uPSI_IdMessageCoderMIME; //Indy
21048: 338 unit uPSI_IdMIMETypes; //Indy
21049: 339 unit uPSI_JvConverter; //JCL
21050: 340 unit uPSI_JvCsvParse; //JCL
21051: 341 unit uPSI_umath; unit uPSI_ugamma; //DMath
21052: 342 unit uPSI_ExcelExport;(Nat:TJsExcelExport) //JCL
21053: 343 unit uPSI_JvDBGridExport; //JCL
21054: 344 unit uPSI_JvgExport; //JCL
21055: 345 unit uPSI_JvSerialMaker; //JCL
21056: 346 unit uPSI_JvWin32; //JCL
21057: 347 unit uPSI_JvPaintFX; //JCL
21058: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
21059: 349 unit uPSI_JvValidators; (preview) //JCL
21060: 350 unit uPSI_JvNTEventLog; //JCL
21061: 351 unit uPSI_ShellZipTool; //mX4

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21062: 352 unit uPSI_JvJoystick; //JCL
21063: 353 unit uPSI_JvMailSlots; //JCL
21064: 354 unit uPSI_JclComplex; //JCL
21065: 355 unit uPSI_SynPdf; //Synopse
21066: 356 unit uPSI_Registry; //VCL
21067: 357 unit uPSI_TlHelp32; //VCL
21068: 358 unit uPSI_JclRegistry; //JCL
21069: 359 unit uPSI_JvAirBrush; //JCL
21070: 360 unit uPSI_mORMotReport; //Synopse
21071: 361 unit uPSI_JclLocales; //JCL
21072: 362 unit uPSI_SynEdit; //SynEdit
21073: 363 unit uPSI_SynEditTypes; //SynEdit
21074: 364 unit uPSI_SynMacroRecorder; //SynEdit
21075: 365 unit uPSI_LongIntList; //SynEdit
21076: 366 unit uPSI_devutils; //DevC
21077: 367 unit uPSI_SynEditMiscClasses; //SynEdit
21078: 368 unit uPSI_SynEditRegexSearch; //SynEdit
21079: 369 unit uPSI_SynEditHighlighter; //SynEdit
21080: 370 unit uPSI_SynHighlighterPas; //SynEdit
21081: 371 unit uPSI_JvSearchFiles; //JCL
21082: 372 unit uPSI_SynHighlighterAny; //Lazarus
21083: 373 unit uPSI_SynEditKeyCmds; //SynEdit
21084: 374 unit uPSI_SynEditMiscProcs; //SynEdit
21085: 375 unit uPSI_SynEditKbdHandler; //SynEdit
21086: 376 unit uPSI_JvAppInst; //JCL
21087: 377 unit uPSI_JvAppEvent; //JCL
21088: 378 unit uPSI_JvAppCommand; //JCL
21089: 379 unit uPSI_JvAnimTitle; //JCL
21090: 380 unit uPSI_JvAnimatedImage; //JCL
21091: 381 unit uPSI_SynEditExport; //SynEdit
21092: 382 unit uPSI_SynExportHTML; //SynEdit
21093: 383 unit uPSI_SynExportRTF; //SynEdit
21094: 384 unit uPSI_SynEditSearch; //SynEdit
21095: 385 unit uPSI_fMain_back; //maxBox;
21096: 386 unit uPSI_JvZoom; //JCL
21097: 387 unit uPSI_Prand; //PM
21098: 388 unit uPSI_JvSticker; //JCL
21099: 389 unit uPSI_XmlVerySimple; //mX4
21100: 390 unit uPSI_Services; //ExtPascal
21101: 391 unit uPSI_ExtPascalUtils; //ExtPascal
21102: 392 unit uPSI_SocketsDelphi; //ExtPascal
21103: 393 unit uPSI_StBarC; //SysTools
21104: 394 unit uPSI_StDbBarC; //SysTools
21105: 395 unit uPSI_StBarPN; //SysTools
21106: 396 unit uPSI_StDbPNBC; //SysTools
21107: 397 unit uPSI_StDb2DBC; //SysTools
21108: 398 unit uPSI_StMoney; //SysTools
21109: 399 unit uPSI_JvForth; //JCL
21110: 400 unit uPSI_RestRequest; //mX4
21111: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
21112: 402 unit uPSI_JvXmlDatabase; //update //JCL
21113: 403 unit uPSI_StAstro; //SysTools
21114: 404 unit uPSI_StSort; //SysTools
21115: 405 unit uPSI_StDate; //SysTools
21116: 406 unit uPSI_StDateSt; //SysTools
21117: 407 unit uPSI_StBase; //SysTools
21118: 408 unit uPSI_StVInfo; //SysTools
21119: 409 unit uPSI_JvBrowseFolder; //JCL
21120: 410 unit uPSI_JvBoxProcs; //JCL
21121: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
21122: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
21123: 413 unit uPSI_JvHighlighter; //JCL
21124: 414 unit uPSI_Diff; //mX4
21125: 415 unit uPSI_SpringWinAPI; //DSpring
21126: 416 unit uPSI_StBits; //SysTools
21127: 417 unit uPSI_TomDBQue; //mX4
21128: 418 unit uPSI_MultilangTranslator; //mX4
21129: 419 unit uPSI_HyperLabel; //mX4
21130: 420 unit uPSI_Starter; //mX4
21131: 421 unit uPSI_FileAssocs; //devC
21132: 422 unit uPSI_devFileMonitorX; //devC
21133: 423 unit uPSI_devrun; //devC
21134: 424 unit uPSI_devExec; //devC
21135: 425 unit uPSI_oysUtils; //devC
21136: 426 unit uPSI_DosCommand; //devC
21137: 427 unit uPSI_CppTokenizer; //devC
21138: 428 unit uPSI_JvHLPParser; //devC
21139: 429 unit uPSI_JclMapI; //JCL
21140: 430 unit uPSI_JclShell; //JCL
21141: 431 unit uPSI_JclCOM; //JCL
21142: 432 unit uPSI_GR32_Math; //Graphics32
21143: 433 unit uPSI_GR32_LowLevel; //Graphics32
21144: 434 unit uPSI_SimpleHl; //mX4
21145: 435 unit uPSI_GR32_Filters; //Graphics32
21146: 436 unit uPSI_GR32_VectorMaps; //Graphics32
21147: 437 unit uPSI_cXMLFunctions; //Fundamentals 4
21148: 438 unit uPSI_JvTimer; //JCL
21149: 439 unit uPSI_cHTTPUtils; //Fundamentals 4
21150: 440 unit uPSI_cTLSUtils; //Fundamentals 4

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21151: 441 unit uPSI_JclGraphics; //JCL
21152: 442 unit uPSI_JclSynch; //JCL
21153: 443 unit uPSI_IdTelnet; //Indy
21154: 444 unit uPSI_IdTelnetServer; //Indy
21155: 445 unit uPSI_IdEcho; //Indy
21156: 446 unit uPSI_IdEchoServer; //Indy
21157: 447 unit uPSI_IdEchoUDP; //Indy
21158: 448 unit uPSI_IdEchoUDPServer; //Indy
21159: 449 unit uPSI_IdSocks; //Indy
21160: 450 unit uPSI_IdAntiFreezeBase; //Indy
21161: 451 unit uPSI_IdHostnameServer; //Indy
21162: 452 unit uPSI_IdTunnelCommon; //Indy
21163: 453 unit uPSI_IdTunnelMaster; //Indy
21164: 454 unit uPSI_IdTunnelSlave; //Indy
21165: 455 unit uPSI_IdRSH; //Indy
21166: 456 unit uPSI_IdRSHServer; //Indy
21167: 457 unit uPSI_Spring_Cryptography_Utils; //Spring4Delphi
21168: 458 unit uPSI_MapReader; //devC
21169: 459 unit uPSI_LibTar; //devC
21170: 460 unit uPSI_IdStack; //Indy
21171: 461 unit uPSI_IdBlockCipherIntercept; //Indy
21172: 462 unit uPSI_IdChargenServer; //Indy
21173: 463 unit uPSI_IdFTPServer; //Indy
21174: 464 unit uPSI_IdException; //Indy
21175: 465 unit uPSI_utexplot; //DMath
21176: 466 unit uPSI_uwinstr; //DMath
21177: 467 unit uPSI_VarRecUtils; //devC
21178: 468 unit uPSI_JvStringListToHtml; //JCL
21179: 469 unit uPSI_JvStringHolder; //JCL
21180: 470 unit uPSI_IdCoder; //Indy
21181: 471 unit uPSI_SynHighlighterDfm; //Synedit
21182: 472 unit uHighlighterProcs; in 471 //Synedit
21183: 473 unit uPSI_LazFileUtils; //LCL
21184: 474 unit uPSI_IDECmdLine; //LCL
21185: 475 unit uPSI_lazMasks; //LCL
21186: 476 unit uPSI_ip_misc; //mX4
21187: 477 unit uPSI_Barcode; //LCL
21188: 478 unit uPSI_SimpleXML; //LCL
21189: 479 unit uPSI_JclIniFiles; //JCL
21190: 480 unit uPSI_D2XXUnit; {$X-} //FTDI
21191: 481 unit uPSI_JclDateTime; //JCL
21192: 482 unit uPSI_JclEDI; //JCL
21193: 483 unit uPSI_JclMiscel2; //JCL
21194: 484 unit uPSI_JclValidation; //JCL
21195: 485 unit uPSI_JclAnsiStrings; {-PString} //JCL
21196: 486 unit uPSI_SynEditMiscProcs2; //Synedit
21197: 487 unit uPSI_JclStreams; //JCL
21198: 488 unit uPSI_QRCode; //mX4
21199: 489 unit uPSI_BlockSocket; //ExtPascal
21200: 490 unit uPSI_Masks_Utils; //VCL
21201: 491 unit uPSI_synautil; //Synapse!
21202: 492 unit uPSI_JclMath_Class; //JCL RTL
21203: 493 unit ugamdist; //Gamma function //DMath
21204: 494 unit uibeta, ucorrel; //IBeta //DMath
21205: 495 unit uPSI_SRMgr; //mX4
21206: 496 unit uPSI_HotLog; //mX4
21207: 497 unit uPSI_DebugBox; //mX4
21208: 498 unit uPSI_ustrings; //DMath
21209: 499 unit uPSI_uregtest; //DMath
21210: 500 unit uPSI_usimplex; //DMath
21211: 501 unit uPSI_uhyper; //DMath
21212: 502 unit uPSI_IdHL7; //Indy
21213: 503 unit uPSI_IdIPMCastBase; //Indy
21214: 504 unit uPSI_IdIPMCastServer; //Indy
21215: 505 unit uPSI_IdIPMCastClient; //Indy
21216: 506 unit uPSI_unlfit; //nlregression //DMath
21217: 507 unit uPSI_IdRawHeaders; //Indy
21218: 508 unit uPSI_IdRawClient; //Indy
21219: 509 unit uPSI_IdRawFunctions; //Indy
21220: 510 unit uPSI_IdTCPStream; //Indy
21221: 511 unit uPSI_IdSNPP; //Indy
21222: 512 unit uPSI_St2DBarC; //SysTools
21223: 513 unit uPSI_ImageWin; //FTL //VCL
21224: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
21225: 515 unit uPSI_GraphWin; //FTL //VCL
21226: 516 unit uPSI_actionMain; //FTL //VCL
21227: 517 unit uPSI_StSpawn; //SysTools
21228: 518 unit uPSI_CtlPanel; //VCL
21229: 519 unit uPSI_IdLPR; //Indy
21230: 520 unit uPSI_SockRequestInterpreter; //Indy
21231: 521 unit uPSI_ulambert; //DMath
21232: 522 unit uPSI_ucholesk; //DMath
21233: 523 unit uPSI_SimpleDS; //VCL
21234: 524 unit uPSI_DBXSqlScanner; //VCL
21235: 525 unit uPSI_DBXMetaDataTable; //VCL
21236: 526 unit uPSI_Chart; //TEE
21237: 527 unit uPSI_TeeProcs; //TEE
21238: 528 unit mXBDEUtils; //mX4
21239: 529 unit uPSI_MDIEdit; //VCL

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21240: 530 unit uPSI_CopyPrsr; //VCL
21241: 531 unit uPSI_SockApp; //VCL
21242: 532 unit uPSI_AppEvnts; //VCL
21243: 533 unit uPSI_ExtActns; //VCL
21244: 534 unit uPSI_TeEngine; //TEE
21245: 535 unit uPSI_CoolMain; //browser //VCL
21246: 536 unit uPSI_StCRC; //SysTools
21247: 537 unit uPSI_StDecMth2; //SysTools
21248: 538 unit uPSI_frmExportMain; //Synedit
21249: 539 unit uPSI_SynDBEdit; //Synedit
21250: 540 unit uPSI_SynEditWildcardSearch; //Synedit
21251: 541 unit uPSI_BoldComUtils; //BOLD
21252: 542 unit uPSI_BoldIsoDateTime; //BOLD
21253: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
21254: 544 unit uPSI_BoldXMLRequests; //BOLD
21255: 545 unit uPSI_BoldStringList; //BOLD
21256: 546 unit uPSI_BoldFileHandler; //BOLD
21257: 547 unit uPSI_BoldContainers; //BOLD
21258: 548 unit uPSI_BoldQueryUserDlg; //BOLD
21259: 549 unit uPSI_BoldWinINet; //BOLD
21260: 550 unit uPSI_BoldQueue; //BOLD
21261: 551 unit uPSI_JvPcx; //JCL
21262: 552 unit uPSI_IdWhois; //Indy
21263: 553 unit uPSI_IdWhoisServer; //Indy
21264: 554 unit uPSI_IdGopher; //Indy
21265: 555 unit uPSI_IdDateTimeStamp; //Indy
21266: 556 unit uPSI_IdDayTimeServer; //Indy
21267: 557 unit uPSI_IdDayTimeUDP; //Indy
21268: 558 unit uPSI_IdDayTimeUDPServer; //Indy
21269: 559 unit uPSI_IdDICTServer; //Indy
21270: 560 unit uPSI_IdDiscardServer; //Indy
21271: 561 unit uPSI_IdDiscardUDPServer; //Indy
21272: 562 unit uPSI_IdMappedFTP; //Indy
21273: 563 unit uPSI_IdMappedPortTCP; //Indy
21274: 564 unit uPSI_IdGopherServer; //Indy
21275: 565 unit uPSI_IdQotdServer; //Indy
21276: 566 unit uPSI_JvRgbToHtml; //JCL
21277: 567 unit uPSI_JvRemLog; //JCL
21278: 568 unit uPSI_JvSysComp; //JCL
21279: 569 unit uPSI_JvTMTL; //JCL
21280: 570 unit uPSI_JvWinampAPI; //JCL
21281: 571 unit uPSI_MSysUtils; //mX4
21282: 572 unit uPSI_ESBMaths; //ESB
21283: 573 unit uPSI_ESBMaths2; //ESB
21284: 574 unit uPSI_uLkJSON; //Lk
21285: 575 unit uPSI_ZURL; //Zeos //Zeos
21286: 576 unit uPSI_ZSysUtils; //Zeos //UNA
21287: 577 unit unaUtils internals //Zeos
21288: 578 unit uPSI_ZMatchPattern; //Zeos
21289: 579 unit uPSI_ZClasses; //Zeos
21290: 580 unit uPSI_ZCollections; //Zeos
21291: 581 unit uPSI_ZEncoding; //Zeos
21292: 582 unit uPSI_IdRawBase; //Indy
21293: 583 unit uPSI_IdNTLM; //Indy
21294: 584 unit uPSI_IdNNTP; //Indy
21295: 585 unit uPSI_usniffer; //PortScanForm //mX4
21296: 586 unit uPSI_IdCoderMIME; //Indy
21297: 587 unit uPSI_IdCoderUUE; //Indy
21298: 588 unit uPSI_IdCoderXXE; //Indy
21299: 589 unit uPSI_IdCoder3to4; //Indy
21300: 590 unit uPSI_IdCookie; //Indy
21301: 591 unit uPSI_IdCookieManager; //Indy
21302: 592 unit uPSI_WdosSocketUtils; //WDos //WDos
21303: 593 unit uPSI_WdosPlcUtils; //WDos //WDos
21304: 594 unit uPSI_WdosPorts; //WDos //WDos
21305: 595 unit uPSI_WdosResolvers; //WDos //WDos
21306: 596 unit uPSI_WdosTimers; //WDos //WDos
21307: 597 unit uPSI_WdosPlcs; //WDos //WDos
21308: 598 unit uPSI_WdosPneumatics; //WDos //WDos
21309: 599 unit uPSI_IdFingerServer; //Indy //Indy
21310: 600 unit uPSI_IdDNSResolver; //Indy //Indy
21311: 601 unit uPSI_IdHTTPWebBrokerBridge; //Indy //Indy
21312: 602 unit uPSI_IdIntercept; //Indy //Indy
21313: 603 unit uPSI_IdIPMCastBase; //Indy //Indy
21314: 604 unit uPSI_IdLogBase; //Indy //Indy
21315: 605 unit uPSI_IdIOHandlerStream; //Indy //Indy
21316: 606 unit uPSI_IdMappedPortUDP; //Indy //Indy
21317: 607 unit uPSI_IdQOTDUDPServer; //Indy //Indy
21318: 608 unit uPSI_IdQOTDUDP; //Indy //Indy
21319: 609 unit uPSI_IdSysLog; //Indy //Indy
21320: 610 unit uPSI_IdSysLogServer; //Indy //Indy
21321: 611 unit uPSI_IdSysLogMessage; //Indy //Indy
21322: 612 unit uPSI_IdTimeServer; //Indy //Indy
21323: 613 unit uPSI_IdTimeUDP; //Indy //Indy
21324: 614 unit uPSI_IdTimeUDPServer; //Indy //Indy
21325: 615 unit uPSI_IdUserAccounts; //Indy //mX4
21326: 616 unit uPSI_TextUtils; //mX4 //mX4
21327: 617 unit uPSI_MandelbrotEngine; //mX4 //mX4
21328: 618 unit uPSI_delphi_arduino_Unit1; //mX4

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21329: 619 unit uPSI_DTDSchema2; //mX4
21330: 620 unit uPSI_fpPlotMain; //DMath
21331: 621 unit uPSI_FindFileIter; //mX4
21332: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
21333: 623 unit uPSI_PppParser; //PPP
21334: 624 unit uPSI_PppLexer; //PPP
21335: 625 unit uPSI_PcharUtils; //PPP
21336: 626 unit uPSI_uJSON; //WU
21337: 627 unit uPSI_JclStrHashMap; //JCL
21338: 628 unit uPSI_JclHookExcept; //JCL
21339: 629 unit uPSI_EncdDecd; //VCL
21340: 630 unit uPSI_SockAppReg; //VCL
21341: 631 unit uPSI_PJFileHandle; //PJ
21342: 632 unit uPSI_PJEnvVars; //PJ
21343: 633 unit uPSI_PJPipe; //PJ
21344: 634 unit uPSI_PJPipeFilters; //PJ
21345: 635 unit uPSI_PJConsoleApp; //PJ
21346: 636 unit uPSI_UConsoleAppEx; //PJ
21347: 637 unit uPSI_DbSocketChannelNative; //VCL
21348: 638 unit uPSI_DbxDatagenerator; //VCL
21349: 639 unit uPSI_DBXClient; //VCL
21350: 640 unit uPSI_IdLogEvent; //Indy
21351: 641 unit uPSI_Reversi; //mX4
21352: 642 unit uPSI_Geometry; //mX4
21353: 643 unit uPSI_IdSMTSPServer; //Indy
21354: 644 unit uPSI_Textures; //mX4
21355: 645 unit uPSI_IBX; //VCL
21356: 646 unit uPSI_IWDBCommon; //VCL
21357: 647 unit uPSI_SortGrid; //mX4
21358: 648 unit uPSI_IB; //VCL
21359: 649 unit uPSI_IBScript; //VCL
21360: 650 unit uPSI_JvCSVBaseControls; //JCL
21361: 651 unit uPSI_Jvg3DColors; //JCL
21362: 652 unit uPSI_JvHLEditor; //beat //JCL
21363: 653 unit uPSI_JvShellHook; //JCL
21364: 654 unit uPSI_DBCommon2; //VCL
21365: 655 unit uPSI_JvSHFfileOperation; //JCL
21366: 656 unit uPSI_uFileExport; //mX4
21367: 657 unit uPSI_JvDialogs; //JCL
21368: 658 unit uPSI_JvDBTreeview; //JCL
21369: 659 unit uPSI_JvDBUltimGrid; //JCL
21370: 660 unit uPSI_JvDBQueryParamsForm; //JCL
21371: 661 unit uPSI_JvExControls; //JCL
21372: 662 unit uPSI_JvBDEMemTable; //JCL
21373: 663 unit uPSI_JvCommStatus; //JCL
21374: 664 unit uPSI_JvMailSlots2; //JCL
21375: 665 unit uPSI_JvgWinMask; //JCL
21376: 666 unit uPSI_StEclipse; //SysTools
21377: 667 unit uPSI_StMime; //SysTools
21378: 668 unit uPSI_StList; //SysTools
21379: 669 unit uPSI_StMerge; //SysTools
21380: 670 unit uPSI_StStrs; //SysTools
21381: 671 unit uPSI_StTree; //SysTools
21382: 672 unit uPSI_StVArr; //SysTools
21383: 673 unit uPSI_StRegIni; //SysTools
21384: 674 unit uPSI_urkf; //DMath
21385: 675 unit uPSI_usvd; //DMath
21386: 676 unit uPSI_DepWalkUtils; //JCL
21387: 677 unit uPSI_Optionsfrm; //JCL
21388: 678 unit yuvconverts; //mX4
21389: 679 uPSI_JvPropAutoSave; //JCL
21390: 680 uPSI_AclAPI; //alcinoe
21391: 681 uPSI_AviCap; //alcinoe
21392: 682 uPSI_ALAVLBinaryTree; //alcinoe
21393: 683 uPSI_ALFcNMisc; //alcinoe
21394: 684 uPSI_ALStringList; //alcinoe
21395: 685 uPSI_ALQuickSortList; //alcinoe
21396: 686 uPSI_ALStaticText; //alcinoe
21397: 687 uPSI_ALJSONDoc; //alcinoe
21398: 688 uPSI_ALGSMComm; //alcinoe
21399: 689 uPSI_ALWindows; //alcinoe
21400: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
21401: 691 uPSI_ALHttpCommon; //alcinoe
21402: 692 uPSI_ALWebSpider; //alcinoe
21403: 693 uPSI_ALHttpClient; //alcinoe
21404: 694 uPSI_ALFcNHTML; //alcinoe
21405: 695 uPSI_ALFTPClient; //alcinoe
21406: 696 uPSI_ALInternetMessageCommon; //alcinoe
21407: 697 uPSI_ALWininetHttpclient; //alcinoe
21408: 698 uPSI_ALWinInetFTPCClient; //alcinoe
21409: 699 uPSI_ALWinHttpWrapper; //alcinoe
21410: 700 uPSI_ALWinHttpclient; //alcinoe
21411: 701 uPSI_ALFcNWinSock; //alcinoe
21412: 702 uPSI_ALFcNSQL; //alcinoe
21413: 703 uPSI_ALFcCGI; //alcinoe
21414: 704 uPSI_ALFcNExecute; //alcinoe
21415: 705 uPSI_ALFcNFile; //alcinoe
21416: 706 uPSI_ALFcNMime; //alcinoe
21417: 707 uPSI_ALPhpRunner; //alcinoe

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21418: 708 uPSI_ALGraphic; //alcinoe
21419: 709 uPSI_ALIniFiles; //alcinoe
21420: 710 uPSI_ALMemCachedClient; //alcinoe
21421: 711 unit uPSI_MyGrids; //mX4
21422: 712 uPSI_ALMultiPartMixedParser //alcinoe
21423: 713 uPSI_ALSMTPClient //alcinoe
21424: 714 uPSI_ALNNTPClient //alcinoe
21425: 715 uPSI_ALHintBalloon; //alcinoe
21426: 716 unit uPSI_ALXmlDoc; //alcinoe
21427: 717 unit uPSI_IPCThrd; //VCL
21428: 718 unit uPSI_MonForm; //VCL
21429: 719 unit uPSI_TeCanvas; //Orpheus
21430: 720 unit uPSI_OvcMisc; //Orpheus
21431: 721 unit uPSI_OvcFiler; //Orpheus
21432: 722 unit uPSI_OvcState; //Orpheus
21433: 723 unit uPSI_OvcCoco; //Orpheus
21434: 724 unit uPSI_OvcrExp; //Orpheus
21435: 725 unit uPSI_OvcFormatSettings; //Orpheus
21436: 726 unit uPSI_OvcUtils; //Orpheus
21437: 727 unit uPSI_OvcStore; //Orpheus
21438: 728 unit uPSI_OvcStr; //Orpheus
21439: 729 unit uPSI_OvcMru; //Orpheus
21440: 730 unit uPSI_OvcCmd; //Orpheus
21441: 731 unit uPSI_OvcTimer; //Orpheus
21442: 732 unit uPSI_OvcIntl; //Orpheus
21443: 733 uPSI_AfCircularBuffer; //AsyncFree
21444: 734 uPSI_AfUtils; //AsyncFree
21445: 735 uPSI_AfSafeSync; //AsyncFree
21446: 736 uPSI_AfComPortCore; //AsyncFree
21447: 737 uPSI_AfComPort; //AsyncFree
21448: 738 uPSI_AfPortControls; //AsyncFree
21449: 739 uPSI_AfDataDispatcher; //AsyncFree
21450: 740 uPSI_AfViewers; //AsyncFree
21451: 741 uPSI_AfDataTerminal; //AsyncFree
21452: 742 uPSI_SimplePortMain; //AsyncFree
21453: 743 unit uPSI_OvcClock; //Orpheus
21454: 744 unit uPSI_O32IntLst; //Orpheus
21455: 745 unit uPSI_O32Label; //Orpheus
21456: 746 unit uPSI_ALMySqlClient; //alcinoe
21457: 747 unit uPSI_ALFBXClient; //alcinoe
21458: 748 unit uPSI_ALFcnsSQL; //alcinoe
21459: 749 unit uPSI_AsyncTimer; //mX4
21460: 750 unit uPSI_ApplicationFileIO; //mX4
21461: 751 unit uPSI_Psapi; //VCLé
21462: 752 uPSI_OvcUser; //Orpheus
21463: 753 uPSI_OvcUrl; //Orpheus
21464: 754 uPSI_OvcVlb; //Orpheus
21465: 755 uPSI_OvcColor; //Orpheus
21466: 756 uPSI_ALFBXLib; //alcinoe
21467: 757 uPSI_OvcMeter; //Orpheus
21468: 758 uPSI_OvcPeakM; //Orpheus
21469: 759 uPSI_O32BGSty; //Orpheus
21470: 760 uPSI_OvcBidi; //Orpheus
21471: 761 uPSI_OvctCary; //Orpheus
21472: 762 uPSI_DXPUtils; //mX4
21473: 763 uPSI_ALMultiPartBaseParser; //alcinoe
21474: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
21475: 765 uPSI_ALPOP3Client; //alcinoe
21476: 766 uPSI_SmallUtils; //mX4
21477: 767 uPSI_MakeApp; //mX4
21478: 768 uPSI_O32MouseMon; //Orpheus
21479: 769 uPSI_OvcCache; //Orpheus
21480: 770 uPSI_OvcCalc; //Orpheus
21481: 771 uPSI_Joystick; //OpenGL
21482: 772 uPSI_ScreenSaver; //OpenGL
21483: 773 uPSI_XCollection; //OpenGL
21484: 774 uPSI_Polynomials; //OpenGL
21485: 775 uPSI_PersistentClasses, //9.86 //OpenGL
21486: 776 uPSI_VectorLists; //OpenGL
21487: 777 uPSI_XOpenGL; //OpenGL
21488: 778 uPSI_MeshUtils; //OpenGL
21489: 779 unit uPSI_JclSysUtils; //JCL
21490: 780 unit uPSI_JclBorlandTools; //JCL
21491: 781 unit JclFileUtils_max; //JCL
21492: 782 uPSI_AfDataControls; //AsyncFree
21493: 783 uPSI_GLSilhouette; //OpenGL
21494: 784 uPSI_JclSysUtils_class; //JCL
21495: 785 uPSI_JclFileUtils_class; //JCL
21496: 786 uPSI_FileUtil; //JCL
21497: 787 uPSI_ChangeFind; //mX4
21498: 788 uPSI_CmdIntf; //mX4
21499: 789 uPSI_FService; //mX4
21500: 790 uPSI_Keyboard; //OpenGL
21501: 791 uPSI_VRMLParser; //OpenGL
21502: 792 uPSI_GLFileVRML; //OpenGL
21503: 793 uPSI_Octree; //OpenGL
21504: 794 uPSI_GLPolyhedron; //OpenGL
21505: 795 uPSI_GLCrossPlatform; //OpenGL
21506: 796 uPSI_GLParticles; //OpenGL

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21507: 797 uPSI_GLNavigator; //OpenGL
21508: 798 uPSI_GLStarRecord; //OpenGL
21509: 799 uPSI_GLTextureCombiners; //OpenGL
21510: 800 uPSI_GLCanvas; //OpenGL
21511: 801 uPSI_GeometryBB; //OpenGL
21512: 802 uPSI_GeometryCoordinates; //OpenGL
21513: 803 uPSI_VectorGeometry; //OpenGL
21514: 804 uPSI_BumpMapping; //OpenGL
21515: 805 uPSI_TGA; //OpenGL
21516: 806 uPSI_GLVectorFileObjects; //OpenGL
21517: 807 uPSI_IMM; //VCL
21518: 808 uPSI_CategoryButtons; //VCL
21519: 809 uPSI_ButtonGroup; //VCL
21520: 810 uPSI_DbExcept; //VCL
21521: 811 uPSI_AxCtrls; //VCL
21522: 812 uPSI_GL_actorUnit1; //OpenGL
21523: 813 uPSI_StdVCL; //VCL
21524: 814 unit CurvesAndSurfaces; //OpenGL
21525: 815 uPSI_DataAwareMain; //AsyncFree
21526: 816 uPSI_TabNotBk; //VCL
21527: 817 uPSI_udwsfiler; //mX4
21528: 818 uPSI_synaip; //Synapse!
21529: 819 uPSI_synacode; //Synapse
21530: 820 uPSI_synachar; //Synapse
21531: 821 uPSI_synamisc; //Synapse
21532: 822 uPSI_synaser; //Synapse
21533: 823 uPSI_synaicnv; //Synapse
21534: 824 uPSI_tlnsendl; //Synapse
21535: 825 uPSI_pingsend; //Synapse
21536: 826 uPSI_blksock; //Synapse
21537: 827 uPSI_asnlutil; //Synapse
21538: 828 uPSI_dnssendl; //Synapse
21539: 829 uPSI_clamsendl; //Synapse
21540: 830 uPSI_ldapsendl; //Synapse
21541: 831 uPSI_mimemess; //Synapse
21542: 832 uPSI_slogsend; //Synapse
21543: 833 uPSI_mimepart; //Synapse
21544: 834 uPSI_mimeinln; //Synapse
21545: 835 uPSI_ftpsendl; //Synapse
21546: 836 uPSI_ftptsend; //Synapse
21547: 837 uPSI_httpsendl; //Synapse
21548: 838 uPSI_sntpsendl; //Synapse
21549: 839 uPSI_smtpsend; //Synapse
21550: 840 uPSI_snmpsend; //Synapse
21551: 841 uPSI_imapsendl; //Synapse
21552: 842 uPSI_pop3send; //Synapse
21553: 843 uPSI_nttpsend; //Synapse
21554: 844 uPSI_ssl_cryptlib; //Synapse
21555: 845 uPSI_ssl_openssl; //Synapse
21556: 846 uPSI_synhttp_daemon; //Synapse
21557: 847 uPSI_NetWork; //mX4
21558: 848 uPSI_PingThread; //Synapse
21559: 849 uPSI_JvThreadTimer; //JCL
21560: 850 unit uPSI_wwSystem; //InfoPower
21561: 851 unit uPSI_IdComponent; //Indy
21562: 852 unit uPSI_IdIOHandlerThrottle; //Indy
21563: 853 unit uPSI_Themes; //VCL
21564: 854 unit uPSI_StdStyleActnCtrls; //VCL
21565: 855 unit uPSI_UDDIHelper; //VCL
21566: 856 unit uPSI_IdIMAP4Server; //Indy
21567: 857 uPSI_VariantSymbolTable; //VCL //3.9.9.92
21568: 858 uPSI_udf_glob; //mX4
21569: 859 uPSI_TabGrid; //VCL
21570: 860 uPSI_JsDBTreeView; //mX4
21571: 861 uPSI_JsSendMail; //mX4
21572: 862 uPSI_dbTvRecordList; //mX4
21573: 863 uPSI_TreeWvEX; //mX4
21574: 864 uPSI_ECDataLink; //mX4
21575: 865 uPSI_dbTree; //mX4
21576: 866 uPSI_dbTreeCBox; //mX4
21577: 867 unit uPSI_Debug; //frmDebug //mX4
21578: 868 uPSI_TimeFncts; //mX4
21579: 869 uPSI_FileIntf; //VCL
21580: 870 uPSI_SockTransport; //RTL
21581: 871 unit uPSI_WinInet; //RTL
21582: 872 unit uPSI_Wwstr; //mX4
21583: 873 uPSI_DBLookup; //VCL
21584: 874 uPSI_Hotspot; //mX4
21585: 875 uPSI_HList; //History List //mX4
21586: 876 unit uPSI_DrTable; //VCL
21587: 877 uPSI_TConnect; //VCL
21588: 878 uPSI_DataBkr; //VCL
21589: 879 uPSI_HTTPIntr; //VCL
21590: 880 unit uPSI_Mathbox; //mX4
21591: 881 uPSI_cyIndy; //cY
21592: 882 uPSI_cySysUtils; //cY
21593: 883 uPSI_cyWinUtils; //cY
21594: 884 uPSI_cyStrUtils; //cY
21595: 885 uPSI_cyObjUtils, //cY

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21596: 886 uPSI_cyDateUtils,           //cY
21597: 887 uPSI_cyBDE,               //cY
21598: 888 uPSI_cyClasses,           //cY
21599: 889 uPSI_cyGraphics,          //3.9.9.94_2 //cY
21600: 890 unit uPSI_cyTypes;       //cY
21601: 891 uPSI_JvDateTimePicker,    //JCL
21602: 892 uPSI_JvCreateProcess,     //JCL
21603: 893 uPSI_JvEasterEgg,        //JCL
21604: 894 uPSI_WinSvc,             //3.9.9.94_3 //VCL
21605: 895 uPSI_SvcMgr,             //VCL
21606: 896 unit uPSI_JvPickDate;   //JCL
21607: 897 unit uPSI_JvNotify;      //JCL
21608: 898 uPSI_JvStrHlder,         //JCL
21609: 899 unit uPSI_JclNTFS2;     //JCL
21610: 900 uPSI_Jcl8087 //math coprocessor //JCL
21611: 901 uPSI_JvAddPrinter,       //JCL
21612: 902 uPSI_JvCabFile,          //JCL
21613: 903 uPSI_JvDataEmbedded;    //JCL
21614: 904 unit uPSI_U_HexView;    //mX4
21615: 905 uPSI_UWavein4,          //mX4
21616: 906 uPSI_AMixer,            //mX4
21617: 907 uPSI_JvaScrollText,     //mX4
21618: 908 uPSI_JvArrow,           //mX4
21619: 909 unit uPSI_UrlMon;      //mX4
21620: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
21621: 911 unit uPSI_U_Oscilloscope4; //TOscfrmMain; //DFF
21622: 912 unit uPSI_DFFUutils;    //DFF
21623: 913 unit uPSI_MathsLib;     //DFF
21624: 914 uPSI_UIntlist;          //DFF
21625: 915 uPSI_UGetParens;       //DFF
21626: 916 unit uPSI_UGeometry;    //DFF
21627: 917 unit uPSI_UAstronomy;   //DFF
21628: 918 unit uPSI_UCardComponentV2; //DFF
21629: 919 unit uPSI_UTGraphSearch; //DFF
21630: 920 unit uPSI_UParser10;    //DFF
21631: 921 unit uPSI_cyIEUtils;    //cY
21632: 922 unit uPSI_UcomboV2;     //DFF
21633: 923 uPSI_cyBaseComm,        //cY
21634: 924 uPSI_cyAppInstances,   //cY
21635: 925 uPSI_cyAttract,         //cY
21636: 926 uPSI_cyDERUtils,        //cY
21637: 927 unit uPSI_cyDocER;     //cY
21638: 928 unit uPSI_ODBC;        //mX
21639: 929 unit uPSI_AssocExec;   //mX
21640: 930 uPSI_cyBaseCommRoomConnector, //cY
21641: 931 uPSI_cyCommRoomConnector, //cY
21642: 932 uPSI_cyCommunicate,    //cY
21643: 933 uPSI_cyImage;          //cY
21644: 934 uPSI_cyBaseContainer,  //cY
21645: 935 uPSI_cyModalContainer, //cY
21646: 936 uPSI_cyFlyingContainer; //cY
21647: 937 uPSI_RegStr,           //VCL
21648: 938 uPSI_HtmlHelpViewer;   //VCL
21649: 939 unit uPSI_cyInifrom;   //cY
21650: 940 unit uPSI_cyVirtualGrid; //cY
21651: 941 uPSI_Profiler,         //DA
21652: 942 uPSI_BackgroundWorker, //DA
21653: 943 uPSI_Waveplay,         //DA
21654: 944 uPSI_WaveTimer,        //DA
21655: 945 uPSI_WaveUtils;        //DA
21656: 946 uPSI_NamedPipes,       //TB
21657: 947 uPSI_NamedPipeServer,  //TB
21658: 948 unit uPSI_process,     //TB
21659: 949 unit uPSI_DPUutils;   //TB
21660: 950 unit uPSI_CommonTools; //TB
21661: 951 uPSI_DataSendToWeb,   //TB
21662: 952 uPSI_StarCalc,         //TB
21663: 953 uPSI_D2_XPvistaHelperU //TB
21664: 954 unit uPSI_NetTools,    //TB
21665: 955 unit uPSI_Pipes,       //TB
21666: 956 uPSI_ProcessUnit,     //mX
21667: 957 uPSI_adGSM,           //mX
21668: 958 unit uPSI_BetterADODataset; //mX
21669: 959 unit uPSI_AdSelCom;   //FTT //mX
21670: 960 unit unit uPSI_dwsXPlatform; //DWS
21671: 961 uPSI_AdSocket;        //mX Turbo Power
21672: 962 uPSI_AdPacket;        //mX
21673: 963 uPSI_AdPort;          //mX
21674: 964 uPSI_PathFunc;        //Inno
21675: 965 uPSI_CmnFunc;         //Inno
21676: 966 uPSI_CmnFunc2; //Inno Setup //Inno
21677: 967 unit uPSI_BitmapImage; //mX4
21678: 968 unit uPSI_ImageGrabber; //mX4
21679: 969 uPSI_SecurityFunc,    //Inno
21680: 970 uPSI_RedirFunc,        //Inno
21681: 971 uPSI_FIFO, (MemoryStream) //mX4
21682: 972 uPSI_Int64Em,          //Inno
21683: 973 unit uPSI_InstFunc;   //Inno
21684: 974 unit uPSI_LibFusion;   //Inno

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21685: 975 uPSI_SimpleExpression; //Inno
21686: 976 uPSI_unitResourceDetails, //XN
21687: 977 uPSI_unitResFile, //XN
21688: 978 unit uPSI_simpleComport; //mX4
21689: 979 unit uPSI_AfViewershelpers; //Async
21690: 980 unit uPSI_Console; //mX4
21691: 981 unit uPSI_AnalogMeter; //TB
21692: 982 unit uPSI_XPrinter; //TB
21693:
21694:
21695:
21696:
21697: /////////////////////////////////
21698: //Form Template Library FTL
21699: ///////////////////////////////
21700:
21701: 32 FTL For Form Building out of the Script, eg. 399_form_templates.txt
21702:
21703: 045 unit uPSI_VListView TFormListView;
21704: 263 unit uPSI_JvProfiler32; TProfReport
21705: 270 unit uPSI_ImgList; TCustomImageList
21706: 278 unit uPSI_JvImageWindow; TJvImageWindow
21707: 317 unit uPSI_JvParserForm; TJvHTMLParserForm
21708: 497 unit uPSI_DebugBox; TDebugBox
21709: 513 unit uPSI_ImageWin; TImageForm, TImageForm2
21710: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm
21711: 515 unit uPSI_GraphWin; TGraphWinForm
21712: 516 unit uPSI_actionMain; TActionForm
21713: 518 unit uPSI_CtlPanel; TAppletApplication
21714: 529 unit uPSI_MDIEdit; TEditForm
21715: 535 unit uPSI_CoolMain; {browser} TWebMainForm
21716: 538 unit uPSI_frmExportMain; TSynexportForm
21717: 585 unit uPSI_usniffer; //PortScanForm
21718: 600 unit uPSI_ThreadForm; TThreadSortForm
21719: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm
21720: 620 unit uPSI_fplotMain; TfplotForm1
21721: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog
21722: 677 unit uPSI_OptionsFrm; TfrmOptions;
21723: 718 unit uPSI_MonForm; TMonitorForm
21724: 742 unit uPSI_SimplePortMain; TPortForm1
21725: 770 unit uPSI_ovccalc; TOvcCalculator //widget
21726: 810 unit uPSI_DbExcept; TDbEngineErrorDlg
21727: 812 unit uPSI_GL_actorUnit1; TglActorForm1 //OpenGL Robot
21728: 846 unit uPSI_synhttp_daemon; TTCPHttpDaemon, TTCPHttpThrd, TPingThread
21729: 867 unit uPSI_Debug; TfrmDebug
21730: 904 unit uPSI_U_HexView; THexForm2
21731: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOscfrmMain
21732: 959 unit uPSI_AdSelCom; TComSelectForm
21733:
21734:
21735: ex.:with TEditForm.create(self) do begin
21736:   caption:= 'Template Form Tester';
21737:   FormStyle:= fsStayOnTop;
21738:   with editor do begin
21739:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf'
21740:     SelStart:= 0;
21741:     Modified:= False;
21742:   end;
21743: end;
21744: with TWebMainForm.create(self) do begin
21745:   URLs.Text:= 'http://www.kleiner.ch';
21746:   URLsClick(self); Show;
21747: end;
21748: with TSynexportForm.create(self) do begin
21749:   Caption:= 'Synexport HTML RTF tester';
21750:   Show;
21751: end;
21752: with TThreadSortForm.create(self) do begin
21753:   showmodal; free;
21754: end;
21755: with TCustomDrawForm.create(self) do begin
21756:   width:=820; height:=820;
21757:   image1.height:= 600; //add properties
21758:   image1.picture.bitmap:= image2.picture.bitmap;
21759:   //SelectionBackground1Click(self) CustomDraw1Click(self);
21760:   Background1.click;
21761:   bitmap1.click;
21762:   Tile1.click;
21763:   Showmodal;
21764:   Free;
21765: end;
21766: with TfplotForm1.Create(self) do begin
21767:   BtnPlotClick(self);
21768:   Showmodal; Free;
21769: end;
21770: with TOvcCalculator.create(self) do begin
21771:   parent:= aForm;
21772:   //free;
21773:   setbounds(550,510,200,150);

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21774:     displaystr:= 'maXcalc';
21775:   end;
21776:   with THexForm2.Create(self) do begin
21777:     ShowModal;
21778:     Free;
21779:   end;
21780:
21781: function CheckBox: string;
21782: var idHTTP: TIDHTTP;
21783: begin
21784:   result:= 'version not found';
21785:   if IsInternet then begin
21786:     idHTTP:= TIdHTTP.Create(NIL);
21787:     try
21788:       result:= idHTTP.Get(MXVERSIONFILE2);
21789:       result:= result[1]+result[2]+result[3]+result[4]+result[5];
21790:       if result = MBVER2 then begin
21791:         //output.Font.Style:= [fsbold];
21792:         //Speak(' A new Version '+vstr+' of max box is available! ');
21793:         result:= ('!!!! OK. You have latest Version: '+result+ ' available at '+MXSITE);
21794:       end;
21795:     //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
21796:     finally
21797:       idHTTP.Free
21798:     end;
21799:   end;
21800: end;
21801:
21802:
21803: /////////////////////////////// All maxBox Tutorials Table of Content 2014 ///////////////////////////////
21804: All maxBox Tutorials Table of Content 2014
21805: /////////////////////////////// Tutorial 00 Function-Coding (Blix the Programmer)
21806: Tutorial 00 Function-Coding (Blix the Programmer)
21807: Tutorial 01 Procedural-Coding
21808: Tutorial 02 OO-Programming
21809: Tutorial 03 Modular Coding
21810: Tutorial 04 UML Use Case Coding
21811: Tutorial 05 Internet Coding
21812: Tutorial 06 Network Coding
21813: Tutorial 07 Game Graphics Coding
21814: Tutorial 08 Operating System Coding
21815: Tutorial 09 Database Coding
21816: Tutorial 10 Statistic Coding
21817: Tutorial 11 Forms Coding
21818: Tutorial 12 SQL DB Coding
21819: Tutorial 13 Crypto Coding
21820: Tutorial 14 Parallel Coding
21821: Tutorial 15 Serial RS232 Coding
21822: Tutorial 16 Event Driven Coding
21823: Tutorial 17 Web Server Coding
21824: Tutorial 18 Arduino System Coding
21825: Tutorial 18_3 RGB LED System Coding
21826: Tutorial 19 WinCOM /Arduino Coding
21827: Tutorial 20 Regular Expressions RegEx
21828: Tutorial 21 Android Coding (coming 2013)
21829: Tutorial 22 Services Programming
21830: Tutorial 23 Real Time Systems
21831: Tutorial 24 Clean Code
21832: Tutorial 25 maxBox Configuration I+II
21833: Tutorial 26 Socket Programming with TCP
21834: Tutorial 27 XML & TreeView
21835: Tutorial 28 DLL Coding (available)
21836: Tutorial 29 UML Scripting (2014)
21837: Tutorial 30 Web of Things (2014)
21838: Tutorial 31 Closures (coming 2014)
21839: Tutorial 32 SQL Firebird (coming 2014)
21840: Tutorial 33 Oscilloscope (coming 2015)
21841: Tutorial 34 GPS Navigation (coming 2015)
21842: Tutorial 35 Web Box (available)
21843:
21844: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
21845: using Docu for this file is maxbox_functions_all.pdf
21846: PEP - Pascal Education Program Lib Lab ShellHell
21847:
21848: http://stackoverflow.com/tags/pascalscript/hot
21849: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
21850: http://sourceforge.net/projects/maxbox #locs:51620
21851: http://sourceforge.net/apps/mediawiki/maxbox
21852: http://www.blaisepascal.eu/
21853: https://github.com/maxkleiner/maxBox3.git
21854: http://www.heise.de/download/maxbox-1176464.html
21855: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml
21856: https://www.facebook.com/pages/Programming-maxBox/166844836691703
21857: http://www.softwareschule.ch/arduino_training.pdf
21858: http://www.delphiarea.com
21859:
21860: All maxBox Examples List
21861: https://github.com/maxkleiner/maxBox3/releases
21862: ****

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21863: 000_pas_baseconvert.txt
21864: 000_pas_baseconvert.txt_encrypt
21865: 000_pas_baseconvert.txt_decrypt
21866: 001_1_pas_functest - Kopie.txt
21867: 001_1_pas_functest.txt
21868: 001_1_pas_functest2.txt
21869: 001_1_pas_functest_clx2.txt
21870: 001_1_pas_functest_clx2.2.txt
21871: 001_1_pas_functest_openarray.txt
21872: 001_pas_lottogen.txt
21873: 001_pas_lottogen_template.txt
21874: 001_pas_lottogen_txtpcopy
21875: 002_pas_russianroulette.txt
21876: 002_pas_russianroulette.txtpcopy
21877: 002_pas_russianroulette.txtpcopy_decrypt
21878: 002_pas_russianroulette.txtpcopy_encrypt
21879: 003_pas_motion.txt
21880: 003_pas_motion.txtpcopy
21881: 004_pas_search.txt
21882: 004_pas_search_replace.txt
21883: 004_search_replace_allfunctionlist.txt
21884: 005_pas_oodesign.txt
21885: 005_pas_shelllink.txt
21886: 006_pas_oobatch.txt
21887: 007_pas_streamcopy.txt
21888: 008_EINMALEINS_FUNC.TXT
21889: 008_explanation.txt
21890: 008_pas_verwechselts.txt
21891: 008_pas_verwechselts_ibz_bern_func.txt
21892: 008_stack_ibz.TXT
21893: 009_pas_umrunner.txt
21894: 009_pas_umrunner_all.txt
21895: 009_pas_umrunner_componenttest.txt
21896: 009_pas_umrunner_solution.txt
21897: 009_pas_umrunner_solution_2step.txt
21898: 010_pas_oodesign_solution.txt
21899: 011_pas_puzzles_defect.txt
21900: 012_pas_umrunner_solution.txt
21901: 012_pas_umrunner_solution2.txt
21902: 013_pas_linenumber.txt
21903: 014_pas_primetest.txt
21904: 014_pas_primetest_first.txt
21905: 014_pas_primetest_sync.txt
21906: 015_designbycontract.txt
21907: 015_pas_designbycontract_solution.txt
21908: 016_pas_searchrec.txt
21909: 017_chartgen.txt
21910: 018_data_simulator.txt
21911: 019_dez_to_bin.txt
21912: 019_dez_to_bin_grenzwert_ibz.txt
21913: 020_proc_feedback.txt
21914: 021_pas_symkey.txt
21915: 021_pas_symkey_solution.txt
21916: 022_pas_filestreams.txt
21917: 023_pas_find_searchrec.txt
21918: 023_pas_pathfind.txt
21919: 024_pas_TFileStream_records.txt
21920: 025_prime_direct.txt
21921: 026_pas_memorystream.txt
21922: 027_pas_shellexecute_beta.txt
21923: 027_pas_shellexecute_solution.txt
21924: 028_pas_dataset.txt
21925: 029_pas_assignfile.txt
21926: 029_pas_assignfile_dragndropexe.txt
21927: 030_palindrome_2.txt
21928: 030_palindrome_tester.txt
21929: 030_pas_recursion.txt
21930: 030_pas_recursion2.txt
21931: 031_pas_hashcode.txt
21932: 032_pas_crc_const.txt
21933: 033_pas_cipher.txt
21934: 033_pas_cipher_def.txt
21935: 033_pas_cipher_file_2_solution.txt
21936: 034_pas_soundbox.txt
21937: 035_pas_crcscript.txt
21938: 035_pas_CRCscript_modbus.txt
21939: 036_pas_includetest.txt
21940: 036_pas_includetest_basta.txt
21941: 037_pas_define_demo32.txt
21942: 038_pas_box_demonstrator.txt
21943: 039_pas_dllcall.txt
21944: 040_paspointer.txt
21945: 040_paspointer_old.txt
21946: 041_pasplotter.txt
21947: 041_pasplotter_plus.txt
21948: 042_pas_kgv_ggt.txt
21949: 043_pas_proceduretype.txt
21950: 044_pas_14queens_solwith14.txt
21951: 044_pas_8queens.txt

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283_SQL_API_messagetimeout.txt
284_SysTools4.txt
285_MineForm_GR32.TXT
285_MineForm_GR32main.TXT
285_MineForm_GR32mainsolution.TXT
285_MineForm_propas.TXT
285_MineForm_propas2.TXT
285_minesweeper2.TXT
285_Patterns_process.txt
286_colormixer_jpeg_charcounter.txt
286_colormixer_jpeg_charcounter2.txt
287_eventhandling.txt
287_eventhandling2.txt
287_eventhandling2_negpower.txt
288_bitblt.txt
288_bitblt_resize.txt
289_regression.txt
289_regression2.txt
290_bestofbox.txt
290_bestofbox2.txt
290_bestofbox3.txt
291_3sort_visual_thread.txt
292_refactoring2.txt
293_bold_utils.txt
293_ib_utils.txt
293_ib_utils_timetest.txt
294_maxcalc_demo.txt
294_maxcalc_demo2.txt
295_easter_calendar.txt
295_easter_calendar2.txt
295_easter_combobox.txt
297_atomimage.txt
297_atomimage2.txt
297_atomimage3.txt
297_atomimage4.txt
297_maxonmotor.TXT
297_maxon_atomimage9.txt
298_bitblt_animation.txt
298_bitblt_animation2.txt
298_bitblt_animation3.txt
298_bitblt_animation4.txt
298_bitblt_animation4_screensaver.txt
298_bitblt_animation5_screensaver.txt
299_animation.txt
299_animationmotor_arduino.txt
299_animation_formprototype.txt
299_realtimeclock_arduino.txt
299_realtimeclock_arduino2.txt
300_treeview.txt
300_treeview_test.txt
300_treeview_test2.txt
300_treeview_test3.txt
301_LED_Arduino3.txt
301_led_arduino3_simple.txt
301_led_arduino3_simplecode.txt
301_log_arduino.txt
301_log_arduino2.txt
301_SQL_DBfirebird3.txt
301_SQL_DBfirebird4.txt
302_LCLActivity_java.txt
302_LED_DataLogger.txt
303_Android_LCLActivity_java.txt
303_webserver.txt
303_webserver2.txt
303_webserver_alldocs2.txt
303_webserver_alldocs2_tester.txt
303_webserver_minimal.txt
303_webserver_simple.txt
304_st_system.txt
305_indy_elizahttpserver.TXT
305_indy_elizahttpserver2.TXT
305_webserver_arduino.txt
305_webserver_arduino2.txt
305_webserver_arduino3.txt
305_webserver_arduino3ibz.txt
305_webserver_arduino3ibz_rgb_led.txt
305_webserver_arduino3test.txt
306_SPS_http_command.txt
307_all_booleanlogic.txt
308_bitbox3.txt
308_bitbox3_exec.txt
308_boolean_animation.txt
308_boolean_animation2.txt
309_regex_power.txt
309_regex_powertester2.txt
309_regex_powertester3.txt

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21954: 044_queens_performer.txt         313_dmath_dll.txt
21955: 044_queens_performer2.txt        314_fundamentals4_tester.TXT
21956: 044_queens_performer2tester.txt   315_funcplot_dmath.TXT
21957: 045_pas_listhandling.txt         316_cfileutils_cdatetime_tester.TXT
21958: 046_pas_records.txt              317_excel_export_tester.TXT
21959: 047_pas_modulal0.txt             318_excel_export.TXT
21960: 048_pas_romans.txt              318_excel_export2.TXT
21961: 049_pas_ifdemo.txt              318_excel_export3.TXT
21962: 049_pas_ifdemo_BROKER.txt       318_excel_export3_tester.TXT
21963: 050_pas_primetester2.txt        319_superfunctions_math.TXT
21964: 050_pas_primetester_thieves.txt 319_superfunctions_mathdefect.TXT
21965: 050_program_starter.txt         320_superfunctions.TXT
21966: 050_program_starter_performance.txt 321_SQL_Excel.txt
21967: 051_pas_findtext_solution.txt    321_SQL_Excel2.txt
21968: 052_pas_text_as_stream.txt      321_SQL_Excel_Export.txt
21969: 052_pas_text_as_stream_include.txt 321_SQL_ExportExec.txt
21970: 053_pas_singleton.txt           321_SQL_ExportTest.txt
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21973: 054_pas_speakpassword_searchtest.txt 321_SQL_SAS_tester3_selfcompile2.txt
21974: 055_pas_factorylist.txt        321_SQL_SAS_tester4.txt
21975: 056_pas_demeter.txt            321_SQL_SAS_updater.txt
21976: 057_pas_dirfinder.txt          322_timezones.TXT
21977: 058_pas_filefinder.txt         323_datefind_fulltext_search.txt
21978: 058_pas_filefinder_pdf.txt     323_datefind_fulltext_searchtester.txt
21979: 058_pas_filefinder_screview.txt 324_interfacenavi.TXT
21980: 058_pas_filefinder_screview2.txt 325_ampelsteuerung.txt
21981: 058_pas_filefinder_screview3.txt 325_analogclock.txt
21982: 059_pas_timertest.txt          326_world_analogclock.txt
21983: 059_pas_timertest_2.txt        326_world_analogclock2.txt
21984: 059_pas_timertest_time_solution.txt 327_atomimage_clock.txt
21985: 059_timerobject_starter2.txt   328_starfield.txt
21986: 059_timerobject_starter2_ibz2_async.txt 329_starfield2.txt
21987: 059_timerobject_starter2_uml.txt 330_myclock.txt
21988: 059_timerobject_starter2_uml_main.txt 330_myclock2.txt
21989: 059_timerobject_starter4_ibz.txt 331_SQL_DBfirebird4.txt
21990: 060_pas_datefind.txt           332_jprofiler.txt
21991: 060_pas_datefind_exceptions2.txt 332_jprofiler_form.txt
21992: 060_pas_datefind_exceptions_CHECKTEST.txt 332_jprofiler_form2.txt
21993: 060_pas_datefind_fulltext.txt    333_querybyexample.txt
21994: 060_pas_datefind_plus.txt       333_querybyexample2.txt
21995: 060_pas_datefind_plus_mydate.txt 334_jvutils_u.txt
21996: 061_pas_randomwalk.txt         335_atomimage5.txt
21997: 061_pas_randomwalk_plus.txt    335_atomimage6.txt
21998: 062_paskorrelation.txt         335_atomimage7.txt
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22001: 064_pas_timetest.txt          336_digiclock2test.txt
22002: 065_pas_bitcounter.txt        336_digiclock3.txt
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22004: 066_pas_eliza_include_sol.txt 337_4games_inone.txt
22005: 067_pas_morse.txt            338_compress.txt
22006: 068_pas_piezo_sound.txt       338_compress2.txt
22007: 069_LED_Matrix_R1_3_6_NV_PSchaer.TXT 339_ntfs.txt
22008: 069_my_LEDBOX.TXT           340_docctype.txt
22009: 069_pas_ledmatrix.txt        340_logsimulation.txt
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22011: 069_pas_LEDMATRIX_Alphabet_run.txt 340_soundControltype.txt
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22013: 069_PAS_LEDMATRIX_COLOR.TXT 341_blix_clock2.txt
22014: 069_pas_ledmatrix_fixededit.txt 341_blix_clock_tester.txt
22015: 069_pas_LEDMATRIX_soundbox.txt 342_set Enumerator.txt
22016: 069_pas_LEDMATRIX_soundbox2.txt 343_dice2.txt
22017: 069_Richter_MATRIX.TXT       344_pe_header.txt
22018: 070_pas_functionplot.txt      344_pe_header2.txt
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22022: 070_pas_functionplotter3.txt   348_duallistview.txt
22023: 070_pas_functionplotter4.txt   349_biginteger.txt
22024: 070_pas_functionplotter_digital.txt 350_parserform.txt
22025: 070_pas_functionplotter_elliptic.txt 351_chartform.txt
22026: 070_pas_function_helmholtz.txt 351_chartform2.txt
22027: 070_pas_textcheck_experimental.txt 351_chartform3.txt
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22029: 071_pas_graphics_drawsym.txt 353_smtp_email.txt
22030: 071_pas_graphics_drawsym_save.txt 353_smtp_email2.txt
22031: 071_pas_graphics_random.txt   354_josephus.txt
22032: 072_pas_fractals.txt          355_life_of_PI.txt
22033: 072_pas_fractals_2.txt        356_3D_printer.txt
22034: 072_pas_fractals_blackhole.txt 357_fplot.TXT
22035: 072_pas_fractals_performace.txt 358_makesound.txt
22036: 072_pas_fractals_performace_new.txt 359_charsetrules.TXT
22037: 072_pas_fractals_performace_sharp.txt 360_allobjects.TXT
22038: 072_pas_fractals_performance.txt 360_JvPaintFX.TXT
22039: 072_pas_fractals_performance_mx4.txt 361_heartbeat_wave.TXT
22040: 073_pas_forms.txt

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22041: 074_pas_chartgenerator.txt
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22047: 075_pas_bitmappuzzle24.prod.txt
22048: 075_pas_bitmappuzzle2_prod.txt
22049: 075_pas_bitmappuzzle3.txt
22050: 075_pas_bitmapsolve.txt
22051: 075_pas_bitmap_Artwork.txt
22052: 075_pas_puzzlespas_solution.txt
22053: 076_pas_3dcube.txt
22054: 076_pas_circle.txt
22055: 077_pas_mmshow.txt
22056: 078_pas_pi.txt
22057: 079_pas_3dcube_animation.txt
22058: 079_pas_3dcube_animation4.txt
22059: 079_pas_3dcube_plus.txt
22060: 080_pas_hanoi.txt
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22062: 080_pas_hanoi2_file.txt
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22065: 080_pas_hanoi2_tester_fast.txt
22066: 080_pas_hanoi3.txt
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22071: 082_pas_biorhythmus_test.txt
22072: 083_pas_GITARRE.txt
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22074: 084_pas_waves.txt
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22076: 085_sinus_plot_waves.txt
22077: 086_pas_graph_arrow_heart.txt
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22079: 087_pas_bitmap_solution.txt
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22083: 088_pas_soundbox2_mp3.txt
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22086: 089_pas_gradient.txt
22087: 089_pas_maxland2.txt
22088: 090_pas_sudoku4.txt
22089: 090_pas_sudoku4_2.txt
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22091: 092_pas_statistics4.txt
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22093: 093_variance_debug.txt
22094: 094_pas_daysold.txt
22095: 094_pas_stat_date.txt
22096: 095_pas_ki_simulation.txt
22097: 096_pas_geisen_problem.txt
22098: 096_pas_montyhall_problem.txt
22099: 097_lotto_proofofconcept.txt
22100: 097_pas_lottocombinations_beat_plus.txt
22101: 097_pas_lottocombinations_beat_plus2.txt
22102: 097_pas_lottocombinations_universal.txt
22103: 097_pas_lottosimulation.txt
22104: 098_pas_chartgenerator_plus.txt
22105: 099_pas_3D_show.txt
22106: 200_big_numbers.txt
22107: 200_big_numbers2.txt
22108: 201_streamload_xml.txt
22109: 202_systemcheck.txt
22110: 203_webservice_simple_intftester.txt
22111: 204_webservice_simple.txt
22112: 205_future_value_service.txt
22113: 206_DTD_string_functions.txt
22114: 207_ibz2_async_process.txt
22115: 208_crc32_hash.txt
22116: 209_cryptohash.txt
22117: 210_public_private.txt
22118: 210_public_private_cryptosystem.txt
22119: 211_wipe_pattern.txt
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22124: 212_statisticmodule4.txt
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22126: 214_mxdocudemo.txt
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22128: 214_mxdocudemo3.txt
22129: 215_hints_test.TXT

362_maxonmotor2.TXT
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364_pdf_services.txt
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366_mp3player.txt
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367_silvi_player_widgets.txt
367_silvi_player_widgets2.txt
367_widgets.txt
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369_macro_demo.txt
370_callback2grid.TXT
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372_stackibz2_memoryalloc.TXT
372_synedit_export.txt
373_batman.txt
373_fractals_tvout.txt
374_realtime_random.txt
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374_realtime_randomtest.txt
374_realtime_randomtest2.txt
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376_collections_list.txt
377_simpleXML.txt
377_smartXML.txt
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380_coolfunc2.txt
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382_GRMath_Riemann.TXT
383_MDAC_DCOM.txt
384_TeamViewerID.TXT
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387_fulltextfinder_fast.txt
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388_TCPServerSock2.TXT
388_TCPServerSockClient.TXT
389_TAR_Archive.TXT
389_TAR_Archive_test.TXT
389_TAR_Archive_test2.TXT
390_Callback3.TXT
390_Callback3Rec.TXT
390_CallbackClean.TXT
390_StringlistHTML.TXT
391_ToDo_List.TXT
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392_BarcodE2.TXT
392_BarcodE23.TXT
392_BarcodE2scholz.TXT
392_BarcodE3scholz.TXT
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393_QRCode2Direct.TXT
393_QRCode2DirectIndy.TXT
393_QRCode2Direct_detlef.TXT
393_QRCode3.TXT
394_networkgraph.TXT
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394_networkgraph_depwalkutilstest2.TXT
395_USBController.TXT
396_Sort.TXT
397_Hotlog.TXT
397_Hotlog2.TXT
398_ustrings.txt
399_form_templates.txt
400_fplochart.TXT

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22135: 220_cipherbox_form.txt
22136: 220_cipherbox_form2.txt
22137: 221_bcd_explain.txt
22138: 222_memoform.txt
22139: 223_directorybox.txt
22140: 224_dialogs.txt
22141: 225_sprite_animation.txt
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22144: 227_animation2.txt
22145: 228_android_calendar.txt
22146: 229_android_game.txt
22147: 229_android_game_tester.txt
22148: 230_DataProvider.txt
22149: 230_DataSetProvider.txt
22150: 230_DataSetXMLBackupScholz.txt
22151: 231_DBGrid_access.txt
22152: 231_DBGrid_XMLaccess.txt
22153: 231_DBGrid_XMLaccess2.txt
22154: 231_DBGrid_XMLaccess_locatetester.txt
22155: 231_DBGrid_XML_CDS_local.txt
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22160: 235_fastform.TXT
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22167: 240_unitGlobal_tester.txt
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22171: 241_db3_sql_tutorial3.txt
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22173: 241_db3_sql_tutorial3_ftest.txt
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22175: 241_RTL_SET2_tester.txt
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22177: 243_tutorial_loader.txt
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22179: 245_formapp2.txt
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22182: 246_httpapp.txt
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22189: 250_tipsandtricks3_admin_elevation.txt
22190: 250_tipsandtricks3_tester.txt
22191: 250_tipsandtricks4_tester.txt
22192: 250_tipsandtricks4_tester2.txt
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22194: 251_whitenoise.txt
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22198: 253_opearatingsystem3.txt
22199: 254_dynarrays.txt
22200: 255_einstein.txt
22201: 256_findconsts_of_EXE.txt
22202: 256_findfunctions2_of_EXE.txt
22203: 256_findfunctions2_of_EXEaverp.txt
22204: 256_findfunctions2_of_EXEspec.txt
22205: 256_findfunctions3.txt
22206: 256_findfunctions_of_EXE.txt
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22208: 258_AES_cryptobox.txt
22209: 258_AES_cryptobox2.txt
22210: 258_AES_cryptobox2_passdlg.txt
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22214: 261_probability.txt
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22217: 264_vclutils.txt
22218: 264_VCL_utils2.txt

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404_simplebrowser.txt
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406_portscan.txt
407_indydemo.txt
408_testroboter.txt
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410_keyboardevent.txt
411_json_test.txt
412_Zeosutils.txt
413_listview2.txt
414_avrdude_flash.txt
415_avrdude_writehex.txt
416_sonar_startscriptEKON.TXT
416_sonar_startscriptEKON_reporting.TXT
417_GRMath_PI_Proof2.TXT
418_functional_paradigm.txt
419_archimedes_spiral.txt
419_archimedes_spiral2.txt
420_archimedes_arduino.txt
420_Lissajous.txt
421_PI_Power.TXT
421_PI_Power2.TXT
422_world_bitboxx.txt
423_game_of_life.TXT
423_game_of_life2.TXT
423_game_of_life3.TXT
423_game_of_life3_test.TXT
423_game_of_life4.TXT
423_game_of_life4_kryptum.TXT
424_opengl_tester.txt
425_reversi_game.txt
426_IBUtils.TXT
427_IBDatabase.TXT
428_SortGrid.TXT
429_fileclass.txt
430_fileoperation.txt
430_fileoperation_tester.txt
431_performance_index.txt
432_shortstring_routines.txt
433_video_avicap.txt
433_video_avicap2.txt
434_GSM_module.TXT
435_httpcommon.txt
436_GraphicsSplitter.txt
436_GraphicSplitter_form.txt
436_GraphicSplitter_form2.txt
436_teetest_screen.TXT
436_teetest_screen2.TXT
437_WinAPItop.txt
437_WinAPItop_Firebirdtester.txt
438_OvcInternational.txt
439_AsyncFreeDemo.txt
439_AsyncFreeDemoForm.txt
440_DLL_Tutor.txt
440_DLL_Tutor2.txt
440_XML_Tutor.txt
440_XML_Tutor2.txt
441_make_app.txt
442_arduino_rgb_led.txt
443_webserver_arduino_rgb_light.txt
443_webserver_arduino_rgb_light4.txt
444_webserver_arduino3ibz_rgb_led_basta.txt
445_datagrid.txt
445_datagrid2.txt
445_datagrid_android_arduino.txt
446_arduino_timer.txt
447_patternFrm_mx3.txt
448_Synapse.txt
448_Synapse2.txt
449_dweb_start_tester.txt
450_Synapse_HTTPS.txt
450_Synapse_Mime.txt
450_Synapse_ScanPing.txt
451_ocx_player.txt
451_OCX_WinPlayer2.txt
452_dbtreeview.txt
452_dbtreeview2.txt
453_stdfuncs.txt
454_fileStream.txt
455_functionfun.txt
455_functionfun2.txt
455_functionfun2_test.txt
457_ressource_grid.txt

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22219: 265_timer_API.txt
22220: 266_serial_interface.txt
22221: 266_serial_interface2.txt
22222: 266_serial_interface3.txt
22223: 267_ackermann_rec.txt
22224: 267_ackermann_variants.txt
22225: 268_DBGrid_tree.txt
22226: 269_record_grid.TXT
22227: 270_Jedi_FunctionPower.txt
22228: 270_Jedi_FunctionPowerTester.txt
22229: 271_closures_study.txt
22230: 271_closures_study_workingset2.txt
22231: 272_pas_function_show.txt
22232: 273_pas_function_show2.txt
22233: 274_library_functions.txt
22234: 275_turtle_language.txt
22235: 275_turtle_language_save.txt
22236: 276_save_algo.txt
22237: 276_save_algo2.txt
22238: 277_functionsfor39.txt
22239: 278_DB_Dialogs.TXT
22240: 279_hexer2.TXT
22241: 279_hexer2macro.TXT
22242: 279_hexer2macroback.TXT
22243: 280_UML_process.txt
22244: 280_UML_process_knabe2.txt
22245: 280_UML_process_knabe3.txt
22246: 280_UML_process_TIM_Botzenhardt.txt
22247: 280_UML_TIM_Seitz.txt
22248: 281_picturepuzzle.txt
22249: 281_picturepuzzle2.txt
22250: 281_picturepuzzle3.txt
22251: 281_picturepuzzle4.txt
22252: 479_inputquery.txt
22253: 480_regex_pathfinder2.txt
22254: 482_processPipe.txt
22255: 483_PathFuncTest_mx.txt
22256: 485_InnoFunc.txt
22257: 487_asyncKeyState.txt
22258: 489_simpleComport.txt
22259: 491_analogmeter.txt
22260:
22261:
22262: Web Script Examples:
22263:
22264: http://www.softwareschule.ch/examples/performer.txt';
22265: http://www.softwareschule.ch/examples/turtle.txt';
22266: http://www.softwareschule.ch/examples/SQLExport.txt';
22267: http://www.softwareschule.ch/examples/Richter.txt';
22268: http://www.softwareschule.ch/examples/checker.txt';
22269: http://www.softwareschule.ch/examples/demoscript.txt';
22270: http://www.softwareschule.ch/examples/ibzresult.txt';
22271: http://www.softwareschule.ch/examples/performindex.txt
22272: http://www.softwareschule.ch/examples/processlist.txt
22273: http://www.softwareschule.ch/examples/game.txt
22274:
22275: SHA1: maxBox3.exe 4C7A84045994D69DA0131D3E518D9B4901F20C5D
22276: CRC32: maxBox3.exe EF0509C
22277: Ref:
22278:   1. writeln(SHA1(Exepath+'\maxbox3.exe'))
22279:   2. shdig: TSHA1Digest;
22280:     shdig:= GetSHA1OfFile(false,exepath+'\maxbox3.exe');
22281:     for i:= 0 to 19 do write(BytetoHex(shdig[i]));
22282:
22283:   3. writeln(IntToHex(CRC32OfFile(exepath+'\maxbox3.exe'),4));
22284:
22285: ---- bigbitbox code_cleared_checked----

```