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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: 22125568 V3.9.9.98 August 2014 To EKON/BASTA/JAX/IBZ/SWS
10: *****Now the Funclist*****
11: Funclist Function : 12787 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 7905 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1281 //995 //
16: def head:max: maxBox7: 15.07.2014 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: 21973! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 21744
22: ASize of EXE: 22125568 (22041600) (16586240) (13511680)
23: SHA1 Hash of maxbox 3.9.9.98: EF3D49A159B008E5FAD63527ED907EC10790DA0C
24:
25: -----
26: -----
27: //////////////////////////////////////////////////////////////////
28:
29:
30: FUNCTION Metric of Script: 256_findfunctions2_of_EXE.txt
31: Function *****Now the Funclist*****
32: function GetResStringChecked(Ident: string; const Args: array of const): string
33: Function ( Index: Longint): Integer
34: function (Command: Word; Data: Longint; var CallHelp: Boolean): Boolean
35: Function _CheckAutoResult( ResultCode: HResult) : HResult
36: function _T(Name: tbtString): Variant;
37: function ABNFToText(const AText : String) : String
38: Function Abs(e : Extended) : Extended;
39: Function Ackermann( const A, B : Integer) : Integer
40: Function AcquireLayoutLock : Boolean
41: Function ActionByName( const AName : string) : TWebActionItem
42: Function ACTIVEBUFFER : PCHAR
43: Function Add : TAggregate
44: function Add : TCollectionItem
45: Function Add : TColumn
46: Function Add : TComboExItem
47: Function Add : TCookie
48: Function Add : TCoolBand
49: Function Add : TFavoriteLinkItem
50: Function Add : TFileTypeItem
51: Function Add : THeaderSection
52: Function Add : THTMLTableColumn
53: Function Add : TIdEmailAddressItem
54: Function Add : TIdMessagePart
55: Function Add : TIdUserAccount
56: Function Add : TListColumn
57: Function Add : TListItem
58: Function Add : TStatusPanel
59: Function Add : TTaskDialogBaseButtonItem
60: Function Add : TWebActionItem
61: Function Add : TWorkArea
62: Function Add( AClass : TClass) : Integer
63: Function Add( AComponent : TComponent) : Integer
64: Function Add( AItem, AData : Integer) : Integer
65: Function Add( AItem, AData : Pointer) : Pointer
66: Function Add( AItem, AData : TObject) : TObject
67: Function Add( AObject : TObject) : Integer
68: Function Add( const Access, Count : Cardinal; const Offset : Int64) : Integer
69: Function Add( const S : WideString) : Integer
70: Function Add( Image, Mask : TBitmap) : Integer
71: Function Add( Index : LongInt; const Text : string) : LongInt
72: Function Add( Sibling : TTreeNode; const S : string) : TTreeNode
73: Function Add(const S: string): Integer
74: function Add(S: string): Integer;
75: Function AddAt( const Access, Count : Cardinal; const Offset : Int64; const Address: Pointer) : Integer
76: Function ADDCHILD : TFIELDDEF
77: Function AddChild( Index : LongInt; const Text : string) : LongInt
78: Function AddChild( Parent : TTreeNode; const S : string) : TTreeNode
79: Function AddChildFirst( Parent : TTreeNode; const S : string) : TTreeNode
80: Function AddChildObject( Index : LongInt; const Text : string; const Data : Pointer) : LongInt
81: Function AddChildObject( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
82: Function AddChildObjectFirst( Parent : TTreeNode; const S : string; Ptr : Pointer) : TTreeNode
83: Function ADDFIELDDEF : TFIELDDEF
84: Function AddFileExtIfNecessary( AFileName, AExt : string) : string
85: Function AddFirst( Sibling : TTreeNode; const S : string) : TTreeNode
86: Function AddIcon( Image : TIcon) : Integer
87: Function AddImage( Value : TCustomImageList; Index : Integer) : Integer
88: Function ADDINDEXDEF : TINDEXDEF
89: Function AddItem(const Caption:String;const ImageIdx,SelectImageIdx,OverlayImagIdx,
    Indent:Int;Data:Ptr):TComboExItem

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

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

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268: Function BooleanToInteger( const Pb : Boolean) : Integer
269: Function BoolToStr(B: Boolean; UseBoolStrs: Boolean): string
270: Function BoolToStrl(value : boolean) : string;
271: Function booltoint( aBool : Boolean) : LongInt
272: Function inttobool( aInt : LongInt) : Boolean
273: Function Bounds( ALeft, ATop, AWidth, AHeight : Integer) : TRect
274: function Bounds(ALeft, ATOP, AWidth, AHeight: Integer): TRect
275: Function BreakApart( BaseString, BreakString : string; StringList : TStrings) : TStrings
276: Function BrightColor( const Color : TColor; const Pct : Single) : TColor
277: Function BrightColorChannel( const Channel : Byte; const Pct : Single) : Byte
278: Function BufferRequest( Length : Integer) : TStream
279: Function BuildfileList( const Path : string; const Attr : Integer; const List : TStrings) : Boolean
280: Function Buttons : PTaskDialogButton
281: Function BytesPerScanline( PixelsPerScanline, BitsPerPixel, Alignment : Longint) : Longint
282: Function BytesToCardinal( const AValue : 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:Double;const AType1:TConvType;const AVal2:Double;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:Double; const AType: TConvType;const AAmount:Double;const
AAmountType:TConvType):Double;
442: Function ConvDiff(const AVal1:Double;const AType1:TConvType;const AVal2:Double;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:Double;const AType:TConvType;const AAmount:Double;const
AAmountType:TConvType): Double;
445: Function ConvSameValue(const AValue1:Double;const AType1:TConvType;const AValue2:Double;const
AType2:TConvType):Boolean;
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 CountGenerations(Anccestor,Descendent: TClass): Integer;
480: Function Coversine( X : Float ) : Float;
481: function CRC32(const fileName: string): LongWord;
482: Function CREATEBLOBSTREAM( FIELD : TFIELD; MODE : TBLOBSTREAMMODE ) : TSTREAM;
483: Function CreateColumns : TDBGridColumns;
484: Function CreateDataLink : TGridDataLink;
485: Function CreateDir( Dir : string ) : Boolean;
486: function CreateDir(const Dir: string): Boolean;
487: Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean;
488: Function CreateEnvironmentBlock(const Options:TEnvironmentOptions;const AdditionalVars:TStrings): PChar;
489: Function CREATEFIELD(OWNER:TCOMPONENT;PARENTFIELD:TOBJECTFIELD; const
FIELDNAME:String;CREATECHILDREN:BOOLEAN):TFIELD;
490: Function CreateGlobber( sFilespec : string ) : TniRegularExpression;
491: Function CreateGrayMappedBmp( Handle : HBITMAP ) : HBITMAP;
492: Function CreateGrayMappedRes( Instance : THandle; ResName : PChar ) : HBITMAP;
493: function CreateGUID(out Guid: TGUID): HResult;
494: Function CreateInstance( const unkOuter : IUnknown; const iid : TGUID; out obj ) : HResult;
495: Function CreateMappedBmp( Handle : HBITMAP; const OldColors, NewColors : array of TColor ) : HBITMAP;
496: Function CreateMappedRes(Instance:THandle;ResName:PChar;const OldColors,NewColors:array of TColor):HBITMAP;
497: Function CreateMessageDialog(const Msg:string; DlgType:TMsgDlgType; Buttons: TMsgDlgButtons) : TForm;
498: Function CreateMessageDialog1(const
Msg:string;DlgType:TMsgDlgType;Btns:TMsgDlgBtns;DefaultBtn:TMsgDlgBtn):TForm;
499: function CreateOleObject(const ClassName: String): IDispatch;
500: Function CREATEPARAM( FLDTYPE : TFIELDTYPE; const PARAMNAME : String; PARAMTYPE : TPARAMTYPE ) : TPARAM;
501: Function CreateParameter(const
Name:WideString;DataType:TDataType;Direction:TParameterDirection;Size:Integer;Value: OleVariant):TPparameter;
502: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject;
503: Function CreateMappedBmp( Handle : HBITMAP; const OldColors, NewColors : array of TColor ) : HBITMAP;
504: Function CreateMappedRes(Instance:THandle;ResName:PChar;const OldColors,NewColors:array of TColor):HBITMAP;
505: Function CreateRecordBuffer( Length : Integer ) : TRecordBuffer;
506: Function CreateValueBuffer( Length : Integer ) : TValueBuffer;
507: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
508: Function CreateRecordBuffer( Length : Integer ) : TRecordBuffer;
509: Function CreateRotatedFont( Font : TFont; Angle : Integer ) : HFONT;
510: Function CreateTwoColorsBrushPattern( Color1, Color2 : TColor ) : TBitmap;
511: Function CreateValueBuffer( Length : Integer ) : TValueBuffer;
512: Function CreateHexDump( AOwner : TWinControl ) : THexDump;
513: Function Csc( const X : Extended) : Extended;
514: Function CscH( const X : Extended) : Extended;
515: function currencyDecimals: Byte;
516: function currencyFormat: Byte;
517: function currencyString: String;
518: Function CurrentProcessId : TIdPID;
519: Function CurrentReadBuffer : string;
520: Function CurrentThreadId : TIdPID;
521: Function CurrentYear : Word;
522: Function CurrToBCD(const Curr: Currency; var BCD: BCd; Precision: Integer; Decimals: Integer): Boolean;
523: Function CurrToStr( Value : Currency ) : string;
524: Function CurrToStrF( Value : Currency; FormatSettings : TFormatSettings; Digits: Integer ) : string;

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

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

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

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

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

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

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

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1140: Function GetIncome( const aNetto : Extended ) : Extended
1141: Function GetIncome( const aNetto : Extended ) : Extended
1142: Function GetIncome( const aNetto : Extended ) : Extended
1143: function GetIncome( const aNetto : Currency ) : Currency
1144: Function GetIncome2( const aNetto : Currency ) : Currency
1145: Function GetIncome2( const aNetto : Currency ) : Currency
1146: Function getIndex_Attrs( tag : string; var idx : Integer; var Attrs : string ) : string
1147: Function GETINDEXFORFIELDS( const FIELDS : String; CASEINSENSITIVE : Boolean ) : TIndexDef
1148: Function GetIndexForOrderBy( const SQL : WideString; DataSet : TDataSet ) : TIndexDef
1149: Function GetInstRes( Instance:THandle;ResType:TResType;const
Name:string;Width:Integer;LoadFlags:TLoadResources;MaskColor:TColor ):Boolean;
1150: Function
GetInstRes1( Instance:THandle;ResType:TResType;ResID:DWORD;Width:Integer;LoadFlags:TLoadResources;MaskColor:
TColor ):Boolean;
1151: Function GetIntelCacheDescription( const D : Byte ) : string
1152: Function GetInteractiveUserName : string
1153: Function GetInternetCacheFolder : string
1154: Function GetInternetFormattedFileTimeStamp( const AFilename : String ) : String
1155: Function GetIPAddress( const HostName : string ) : string
1156: Function GetIP( const HostName : string ) : string
1157: Function GetIPHostName( const AComputerName: String ) : String;
1158: Function GetIsAdmin: Boolean;
1159: Function GetItem( X, Y : Integer ) : LongInt
1160: Function GetItemAt( X, Y : Integer ) : TListItem
1161: Function GetItemHeight( Font : TFont ) : Integer;
1162: Function GetItemPath( Index : Integer ) : string
1163: Function GetKeyFieldNames( List : TStrings ) : Integer;
1164: Function GetKeyFieldNames1( List : TWideStrings ) : Integer;
1165: Function GetKeyState( const VirtualKey : Cardinal ) : Boolean
1166: Function GetLastChild : LongInt
1167: Function GetLastChild : TTreeNode
1168: Function GetLastDelimitedToken( const cDelim : char; const cStr : string ) : string
1169: function GetLastError: Integer
1170: Function GetLAT_CONV_FACTOR: double; //for WGS84 power(1 - 1 / 298.257223563, 2);
1171: Function GetLoader( Ext : string ) : TBitmapLoader
1172: Function GetLoadFilter : string
1173: Function GetLocalComputerName : string
1174: Function GetLocaleChar( Locale, LocaleType : Integer; Default : Char ) : Char
1175: Function GetLocaleStr( Locale, LocaleType : Integer; Default : string ) : string
1176: Function GetLocalUserName : string
1177: Function GetLoginUsername : WideString
1178: function getLongDayNames: string)
1179: Function GetLongHint( const hint: string): string
1180: function getLongMonthNames: string)
1181: Function GetMacAddresses( const Machine : string; const Addresses : TStrings ) : Integer
1182: Function GetMainAppWndFromPid( PID : DWORD ) : HWND
1183: Function GetMaskBitmap : HBITMAP
1184: Function GetMaxAppAddress : Integer
1185: Function GetMciErrorMessage( const MciErrNo : MCIERROR ) : string
1186: Function GetMemoryLoad : Byte
1187: Function GetMIMEDefaultFileExt( const MIMEType : string ) : TIdFileName
1188: Function GetMIMETypeFromFile( const AFile : string ) : string
1189: Function GetMIMETypeFromFile( const AFile : TIdFileName ) : string
1190: Function GetMinAppAddress : Integer
1191: Function GetModule : TComponent
1192: Function GetModuleHandle( ModuleName : PChar ) : HMODULE
1193: Function GetModuleName( Module : HMODULE ) : string
1194: Function GetModulePath( const Module : HMODULE ) : string
1195: Function GetModuleFileName( Module: Integer; Filename: PChar;Size: Integer): Integer; stdcall;
1196: Function GetCommandLine: PChar; stdcall;
1197: Function GetMonochromeBitmap( Value : TBitmap ) : TBitmap
1198: Function GetMultiN(aval: integer): string;
1199: Function GetName : string
1200: Function GetNearestItem( Point : TPoint; Direction : TSearchDirection ) : TListItem
1201: Function GetNethoodFolder : string
1202: Function GetNext : TTreeNode
1203: Function GetNextChild( Value : LongInt ) : LongInt
1204: Function GetNextChild( Value : TTreeNode ) : TTreeNode
1205: Function GetNextDelimitedToken( const cDelim : char; var cStr : String ) : String
1206: Function GetNextItem( StartItem: TListItem;Direction:TSearchDirection;States:TItemStates ) : TListItem
1207: Function GetNextPacket : Integer
1208: Function getNextSibling : TTreeNode
1209: Function GetNextVisible : TTreeNode
1210: Function GetNode( ItemId : HTreeItem ) : TTreeNode
1211: Function GetNodeAt( X, Y : Integer ) : TTreeNode
1212: Function GetNodeDisplayWidth( Node : TOutlineNode ) : Integer
1213: function GetNumberOfProcessors: longint;
1214: Function GetNumLockKeyState : Boolean
1215: Function GetObjectProperty( Instance : TPersistent; const PropName : string ) : TObject
1216: Function GetOnlyTransitionOn( cChar : char ) : TniRegularExpressionState
1217: Function GetOptionalParam( const ParamName : string ) : OleVariant
1218: Function GetOSName: string;
1219: Function GetOSVersion: string;
1220: Function GetOSNumber: string;
1221: Function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
1222: Function GetPackageModuleHandle( PackageName : PChar ) : HMODULE
1223: function GetPageSize: Cardinal;
1224: Function GetParameterFileName : string
1225: Function GetParams( var OwnerData : OleVariant ) : OleVariant

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1226: Function GETPARENTCOMPONENT : TCOMPONENT
1227: Function GetParentForm(control: TControl): TForm
1228: Function GETPARENTMENU : TMENU
1229: Function GetPassword : Boolean
1230: Function GetPassword : string
1231: Function GetPersonalFolder : string
1232: Function GetPidFromProcessName( const ProcessName : string ) : DWORD
1233: Function GetPosition : TPoint
1234: Function GetPrev : TTreeNode
1235: Function GetPrevChild( Value : LongInt ) : LongInt
1236: Function GetPrevChild( Value : TTreeNode ) : TTreeNode
1237: Function getPrevSibling : TTreeNode
1238: Function GetPrevVisible : TTreeNode
1239: Function GetPrinthoodFolder : string
1240: Function GetPrivilegeDisplayName( const PrivilegeName : string ) : string
1241: Function getProcessList: TString;
1242: Function GetProcessId : TIdPID
1243: Function GetProcessNameFromPid( PID : DWORD ) : string
1244: Function GetProcessNameFromWnd( Wnd : HWND ) : string
1245: Function GetProcessMemoryInfo(Process: THandle; ppsmemCounters: TProcessMemoryCounters; cb: DWORD): BOOL
1246: Function getProcessAllMemory(ProcessID : DWORD): TProcessMemoryCounters;
1247: Function getProcessMemoryInfo2(ProcessID : DWORD): TProcessMemoryCounters;
1248: Function GetProgramFilesFolder : string
1249: Function GetProgramsFolder : string
1250: Function GetProxy : string
1251: Function GetQuoteChar : WideString
1252: Function GetQrCode4(Width,Height:Word; Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1253: Function GetQrCodeToFile(Width,Height:Word;Correct_Level:string;const Data:string;aformat:string):TLinearBitmap;
1254: Function GetRate : Double
1255: Function getPerfTime: string;
1256: Function getRuntime: string;
1257: Function GetRBitmap( Value : TBitmap ) : TBitmap
1258: Function GetReadableName( const AName : string ) : string
1259: Function GetRecentDocs : TStringList
1260: Function GetRecentFolder : string
1261: Function GetRecords( Count : Integer; out RecsOut : Integer; Options : Integer ) : OleVariant;
1262: Function GetRecords1(Count:Integer; out RecsOut:Integer;Options:Integer;const CommandText:WideString;var Params, OwnerData : OleVariant) : OleVariant;
1263: Function GetRecordset( const CommandText : WideString; ConnectionString : WideString ) : _Recordset
1264: Function GetRegisteredCompany : string
1265: Function GetRegisteredOwner : string
1266: Function GetResource(ResType:TResType;const Name:string;Width:Int;LoadFlags:TLoadResources;MaskColor:TColor:Bool
1267: Function GetResourceName( ObjStream : TStream; var AName : string ) : Boolean
1268: Function GetResponse( const AAllowedResponses : array of SmallInt ) : SmallInt;
1269: Function GetResponse1( const AAllowedResponse : SmallInt ) : SmallInt;
1270: Function GetRValue( rgb : DWORD ) : Byte
1271: Function GetGValue( rgb : DWORD ) : Byte
1272: Function GetBValue( rgb : DWORD ) : Byte
1273: Function GetCValue( cmyk : COLORREF ) : Byte
1274: Function GetMValue( cmyk : COLORREF ) : Byte
1275: Function GetYValue( cmyk : COLORREF ) : Byte
1276: Function GetKValue( cmyk : COLORREF ) : Byte
1277: Function CMYK( c, m, y, k : Byte ) : COLORREF
1278: Function GetOSName: string;
1279: Function GetProcAddress( hModule : HMODULE; lpProcName : LPCSTR ) : FARPROC
1280: Function GetProcAddress(Module : HMODULE; Proc : PChar): Dword
1281: Function GetSafeCallExceptionMsg : string
1282: Function GetSaturationBitmap( Value : TBitmap ) : TBitmap
1283: Function GetSaveFilter : string
1284: Function GetSaver( Ext : string ) : TBitmapLoader
1285: Function GetScrollLockKeyState : Boolean
1286: Function GetSearchString : string
1287: Function GetSelections( Alist : TList ) : TTreeNode
1288: function GETSELTEXTBUF(BUFFER:PCHAR:BUFSIZE:INTEGER):INTEGER
1289: Function GetSendToFolder : string
1290: Function GetServer : IAppServer
1291: Function GetServerList : OleVariant
1292: Function GetShadowColor( const Color : TColor; Luminance : Integer ) : TColor
1293: Function GetShellProcessHandle : THandle
1294: Function GetShellProcessName : string
1295: Function GetShellVersion : Cardinal
1296: function getShortDayNames: string)
1297: Function GetShortHint(const hint: string): string
1298: function getShortMonthNames: string)
1299: Function GetSizeOfFile( const FileName : string ) : Int64;
1300: Function GetSizeOfFile1( Handle : THandle ) : Int64;
1301: Function GetStdHandle(nStdHandle: Integer): Integer; stdcall;
1302: Function GetStartmenuFolder : string
1303: Function GetStartupFolder : string
1304: Function GetStringProperty( Instance : TPersistent; const PropName : string ) : WideString
1305: Function GetSuccessor( cChar: char ) : TniRegularExpressionState
1306: Function GetSwapFileSize : Integer
1307: Function GetSwapFileUsage : Integer
1308: Function GetSystemLocale : TIdCharSet
1309: Function GetSystemMetrics( nIndex : Integer ) : Integer
1310: Function GetSystemPathSH(Folder: Integer): TFilename ;

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1311: Function GetTableNameFromQuery( const SQL : Widestring ) : Widestring
1312: Function GetTableNameFromSQL( const SQL : WideString ) : WideString
1313: Function GetTableNameFromSQLEx( const SQL : WideString; IdOption : IDENTIFEROPTION ) : WideString
1314: Function GetTasksList( const List : TStrings ) : Boolean
1315: Function getTeamViewerID: string;
1316: Function GetTemplatesFolder : string
1317: Function GetText : PwideChar
1318: function GetText: PChar
1319: Function GetTextBuf( Buffer : PChar; BufSize : Integer ) : Integer
1320: function GETTEXTBUF(BUFFER:PCCHAR;BUFSIZE:INTEGER):INTEGER
1321: Function GetTextItem( const Value : string ) : Longint
1322: function GETTEXTLEN:INTEGER
1323: Function GetThreadLocale: Longint; stdcall
1324: Function GetCurrentThreadID: LongWord; stdcall;
1325: Function GetTickCount : Cardinal
1326: Function GetTickDiff( const AOldTickCount, ANewTickCount : Cardinal ) : Cardinal
1327: Function GetTicketNr : longint
1328: Function GetTime : Cardinal
1329: Function GetTime : TDateTime
1330: Function GetTimeout : Integer
1331: Function GetTimeStr: String
1332: Function GetTimeString: String
1333: Function GetTodayFiles(startdir, amask: string): TStringlist;
1334: Function getTokenCounts : integer
1335: Function GetTotalPageFileMemory : Integer
1336: Function GetTotalPhysicalMemory : Integer
1337: Function GetTotalVirtualMemory : Integer
1338: Function GetUniqueFileName( const APrefix, AExt : String ) : String
1339: Function GetUseNowForDate : Boolean
1340: Function GetUserDomainName( const CurUser : string ) : string
1341: Function GetUserName : string
1342: Function GetUserName: string;
1343: Function GetUserObjectName( hUserObject : THandle ) : string
1344: Function GetValueBitmap( Value : TBitmap ) : TBitmap
1345: Function GetValueMSec : Cardinal
1346: Function GetValueStr : String
1347: Function GetVersion: int;
1348: Function GetVersionString(FileName: string): string;
1349: Function GetVisibleNode( Index : LongInt ) : TOutlineNode
1350: Function GetVolumeFileSystem( const Drive : string ) : string
1351: Function GetVolumeName( const Drive : string ) : string
1352: Function GetVolumeSerialNumber( const Drive : string ) : string
1353: Function GetWebAppServices : IWebAppServices
1354: Function GetWebRequestHandler : IWebRequestHandler
1355: Function GetWindowCaption( Wnd : HWND ) : string
1356: Function GetWindowDC(hdwnd: HWND): HDC;
1357: Function GetWindowIcon( Wnd : HWND; LargeIcon : Boolean ) : HICON
1358: Function GetWindowRect(hwnd: HWND; arect: TRect): Boolean
1359: Function GetWindowsComputerID : string
1360: function GetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
1361: Function GetWindowsFolder : string
1362: Function GetWindowsServicePackVersion : Integer
1363: Function GetWindowsServicePackVersionString : string
1364: Function GetWindowsSystemFolder : string
1365: Function GetWindowsTempFolder : string
1366: Function GetWindowsUserID : string
1367: Function GetWindowsVersion : TWindowsVersion
1368: Function GetWindowsVersionString : string
1369: Function GmtOffsetStrToDateTime( S : string ) : TDateTime
1370: Function GMTToLocalDateTime( S : string ) : TDateTime
1371: Function GotoKey : Boolean
1372: Function GradToCycle( const Grads : Extended ) : Extended
1373: Function GradToDeg( const Grads : Extended ) : Extended
1374: Function GradToDeg( const Value : Extended ) : Extended;
1375: Function GradToDegl( const Value : Double ) : Double;
1376: Function GradToDeg2( const Value : Single ) : Single;
1377: Function GradToRad( const Grads : Extended ) : Extended
1378: Function GradToRad( const Value : Extended ) : Extended;
1379: Function GradToRadl( const Value : Double ) : Double;
1380: Function GradToRad2( const Value : Single ) : Single;
1381: Function Gray32( const Intensity : Byte; const Alpha : Byte ) : TColor32
1382: Function GreenComponent( const Color32 : TColor32 ) : Integer
1383: function GUIDToString(const GUID: TGUID): string)
1384: Function HandleAllocated : Boolean
1385: function HandleAllocated: Boolean;
1386: Function HandleRequest : Boolean
1387: Function HandleRequest( Request : TWebRequest; Response : TWebResponse ) : Boolean
1388: Function HarmonicMean( const X : TDynFloatArray ) : Float
1389: Function HasAsParent( Value : TTreeNode ) : Boolean
1390: Function HASCHILDDEFS : BOOLEAN
1391: Function HasCurValues : Boolean
1392: Function HasExtendCharacter( const s : UTF8String ) : Boolean
1393: Function HasFormat( Format : Word ) : Boolean
1394: Function HashValue( AStream : TStream ) : T5x4LongWordRecord;
1395: Function HashValue(AStream : TStream) : T4x4LongWordRecord
1396: Function HashValue(AStream: TStream): LongWord
1397: Function HashValue(AStream: TStream): Word
1398: Function HashValue1( AStream : TStream; const ABeginPos, AEndPos : Int64 ) : T5x4LongWordRecord;
1399: Function HashValue1(AStream : TStream): T4x4LongWordRecord

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1400: Function HashValue128(const ASrc: string): T4x4LongWordRecord;
1401: Function HashValue128Stream(Astream: TStream): T4x4LongWordRecord;
1402: Function HashValue16( const ASrc : string ) : Word;
1403: Function HashValue16Stream( Astream : TStream ) : Word;
1404: Function HashValue32( const ASrc : string ) : LongWord;
1405: Function HashValue32Stream( Astream : TStream ) : LongWord;
1406: Function HasMergeConflicts : Boolean;
1407: Function hasMoreTokens : boolean;
1408: Function HASPARENT : BOOLEAN;
1409: function HasParent: Boolean;
1410: Function HasTransaction( Transaction : TDBXTransaction ) : Boolean;
1411: Function HasUTF8BOM( S : TStream ) : boolean;
1412: Function HasUTF8BOM1( S : AnsiString ) : boolean;
1413: Function Haversine( X : Float ) : Float;
1414: Function Head( s : string; const subs : string; var tail : string ) : string;
1415: function HELPCOMMAND(COMMAND:INTEGER;DATA:LONGINT):BOOLEAN;
1416: function HELPCONTEXT(CONTEXT:THELPCONTEXT):BOOLEAN;
1417: function HELPJUMP(JUMPID:STRING):BOOLEAN;
1418: Function HeronianMean( const a, b : Float ) : Float;
1419: function HexStrToStr(Value: string): string;
1420: function HexToBin(Text,Buffer:PChar;BufSize:Integer):Integer;
1421: function HexToBin2(HexNum: string): string;
1422: Function Hex.ToDouble( const Hex : string ) : Double;
1423: function HexToInt(hexnum: string): LongInt;
1424: function HexToStr(Value: string): string;
1425: Function HexifyBlock( var Buffer, BufferSize : Integer ) : string;
1426: function Hi(vdat: word): byte;
1427: function HiByte(W: Word): Byte;
1428: function High: Int64;
1429: Function HighlightCell(DataCol,DataRow: Integer; const Value:string; AState:TGridDrawState): Boolean;
1430: function HINSTANCE: longword;
1431: function HiWord(l: DWORD): Word;
1432: function HMODULE: longword;
1433: Function HourOf( const AValue : TDateTime ) : Word;
1434: Function HourOfTheDay( const AValue : TDateTime ) : Word;
1435: Function HourOfTheMonth( const AValue : TDateTime ) : Word;
1436: Function HourOfTheWeek( const AValue : TDateTime ) : Word;
1437: Function HourOfTheYear( const AValue : TDateTime ) : Word;
1438: Function HoursBetween( const ANow, AThen : TDateTime ) : Int64;
1439: Function HourSpan( const ANow, AThen : TDateTime ) : Double;
1440: Function HLSLToRGB1( const H, S, L : Single ) : TColor32;
1441: Function HTMLDecode( const AStr : String ) : String;
1442: Function HTMLEncode( const AStr : String ) : String;
1443: Function HTMLEscape( const Str : string ) : string;
1444: Function HtmlTable( DataSet : TDataSet; DataSetHandler : TDSTableProducer; MaxRows : Integer ) : string;
1445: Function HTTPDecode( const AStr : String ) : string;
1446: Function HTTPEncode( const AStr : String ) : string;
1447: Function Hypot( const X, Y : Extended ) : Extended;
1448: Function IBMx( n1, n2 : Integer ) : Integer;
1449: Function IBMx( n1, n2 : Integer ) : Integer;
1450: Function IBRandomString( iLength : Integer ) : String;
1451: Function IBRandomInteger( iLow, iHigh : Integer ) : Integer;
1452: Function IBStripString( st : String; CharsToStrip : String ) : String;
1453: Function IBFormatIdentifier( Dialect : Integer; Value : String ) : String;
1454: Function IBFormatIdentifierValue( Dialect : Integer; Value : String ) : String;
1455: Function IBExtractIdentifier( Dialect : Integer; Value : String ) : String;
1456: Function IBQuoteIdentifier( Dialect : Integer; Value : String ) : String;
1457: Function IBAddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1458: Procedure IBDecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1459: Function RandomString( iLength : Integer ) : String';
1460: Function RandomInteger( iLow, iHigh : Integer ) : Integer';
1461: Function StripString( st : String; CharsToStrip : String ) : String';
1462: Function FormatIdentifier( Dialect : Integer; Value : String ) : String';
1463: Function FormatIdentifierValue( Dialect : Integer; Value : String ) : String';
1464: Function ExtractIdentifier( Dialect : Integer; Value : String ) : String';
1465: Function QuoteIdentifier( Dialect : Integer; Value : String ) : String';
1466: Function AddIBParamSQLForDetail(Params:TParams;SQL:string;Native:Boolean;Dialect:Integer):string;
1467: Procedure DecomposeDatabaseName(DatabaseName:String;var ServerName,Protocol,DatabasePath:String);
1468: function NextSQLToken(var p: PChar; var Token: String; CurSection: TSQLEToken): TSQLEToken;
1469: Function IconToBitmap( Ico : HICON ) : TBitmap;
1470: Function IconToBitmap2( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1471: Function IconToBitmap3( Ico : HICON; Size : Integer; TransparentColor : TColor ) : TBitmap;
1472: function IdentToCharset(const Ident: string; var Charset: Longint): Boolean;
1473: function IdentToColor(const Ident: string; var Color: Longint): Boolean;
1474: function IdentToCursor(const Ident: string; var cursor: Longint): Boolean;
1475: Function IdGetDefaultCharSet : TIdCharSet;
1476: function IDispatchInvoke(Self:IDispatch;ProperSet:Boolean;const Name:String;Par:array of variant):variant;
1477: Function IdPorts2 : TStringList;
1478: Function IdToMib( const Id : string ) : string;
1479: Function IdSHA1Hash(apath: string): string;
1480: Function IdHashSHA1(apath: string): string;
1481: Function IfStr( const bCondition : boolean; const sTrue : string; const sFalse : string ) : string;
1482: Function IfThen( AValue : Boolean; const ATrue : string; AFalse : string ) : string;
1483: Function IfThenInt( AValue : Boolean; const ATrue : integer; AFALSE : integer ): integer';
1484: Function IfThenDouble( AValue : Boolean; const ATrue : double; AFALSE : double ): double';
1485: Function IfThenBool( AValue : Boolean; const ATrue : boolean; AFALSE : boolean ): boolean';
1486: Function iif1( ATest : Boolean; const ATrue : Integer; const AFALSE : Integer ) : Integer;
1487: Function iif2( ATest : Boolean; const ATrue : string; const AFALSE : string ) : string;
1488: Function iif3( ATest : Boolean; const ATrue : Boolean; const AFALSE : Boolean ) : Boolean;

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1489: function ImportTest(S1: string; s2: longint; s3: Byte; s4: word; var s5: string): string;
1490: Function IncDay( const AValue : TDateTime; const ANumberOfDays : Integer ) : TDateTime
1491: Function IncHour( const AValue : TDateTime; const ANumberOfHours : Int64 ) : TDateTime
1492: Function IncLimit( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1493: Function IncLimit( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1494: Function IncLimit2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1495: Function IncLimit3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1496: Function IncLimit4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1497: Function IncLimit5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1498: Function IncLimit6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1499: Function IncLimitClamp( var B : Byte; const Limit : Byte; const Incr : Byte ) : Byte;
1500: Function IncLimitClamp1( var B : Shortint; const Limit : Shortint; const Incr : Shortint ) : Shortint;
1501: Function IncLimitClamp2( var B : Smallint; const Limit : Smallint; const Incr : Smallint ) : Smallint;
1502: Function IncLimitClamp3( var B : Word; const Limit : Word; const Incr : Word ) : Word;
1503: Function IncLimitClamp4( var B : Integer; const Limit : Integer; const Incr : Integer ) : Integer;
1504: Function IncLimitClamp5( var B : Cardinal; const Limit : Cardinal; const Incr : Cardinal ) : Cardinal;
1505: Function IncLimitClamp6( var B : Int64; const Limit : Int64; const Incr : Int64 ) : Int64;
1506: Function IncludeTrailingBackslash( S : string ) : string
1507: function IncludeTrailingBackslash( const S: string): string
1508: Function IncludeTrailingPathDelimiter( const APath : string ) : string
1509: Function IncludeTrailingPathDelimiter( S : string ) : string
1510: function IncludeTrailingPathDelimiter( const S: string): string
1511: Function IncludeTrailingSlash( const APath : string ) : string
1512: Function IncMillisecond( const AValue : TDateTime; const ANumberOfMilliseconds : Int64 ) : TDateTime
1513: Function IncMinute( const AValue : TDateTime; const ANumberOfMinutes : Int64 ) : TDateTime
1514: Function IncMonth( DateTime : TDateTime; NumberOfMonths : Integer ) : TDateTime
1515: function IncMonth( const DateTime: TDateTime; NumberOfMonths: Integer): TDateTime
1516: Function IncSecond( const AValue : TDateTime; const ANumberOfSeconds : Int64 ) : TDateTime
1517: Function IncWeek( const AValue : TDateTime; const ANumberOfWeeks : Integer ) : TDateTime
1518: Function IncYear( const AValue : TDateTime; const ANumberOfYears : Integer ) : TDateTime
1519: Function IndexOf( AClass : TClass ) : Integer
1520: Function IndexOf( AComponent : TComponent ) : Integer
1521: Function IndexOf( AObject : TObject ) : Integer
1522: Function INDEXOF( const ANAME : String ) : INTEGER
1523: Function IndexOf( const DisplayName : string ) : Integer
1524: Function IndexOf( const Item : TBookmarkStr ) : Integer
1525: Function IndexOf( const S : WideString ) : Integer
1526: Function IndexOf( const View : TJclFileMapView ) : Integer
1527: Function INDEXOF( FIELD : TFIELD ) : INTEGER
1528: Function IndexOf( ID : LCID ) : Integer
1529: Function INDEXOF( ITEM : TMENUITEM ) : INTEGER
1530: Function IndexOf( Value : TListItem ) : Integer
1531: Function IndexOf( Value : TTreeNode ) : Integer
1532: function IndexOf( const S: string): Integer;
1533: Function IndexOfName( const Name : WideString ) : Integer
1534: function IndexOfName( Name: string): Integer;
1535: Function IndexOfObject( AObject : TObject ) : Integer
1536: function IndexOfObject( AObject:tObject):Integer
1537: Function IndexOfTabAt( X, Y : Integer ) : Integer
1538: Function IndexStr( const AText : string; const AValues : array of string ) : Integer
1539: Function IndexText( const AText : string; const AValues : array of string ) : Integer
1540: Function IndexOfInteger( AList : TStringList; Value : Variant ) : Integer
1541: Function IndexOfFloat( AList : TStringList; Value : Variant ) : Integer
1542: Function IndexOfDate( Alist : TStringList; Value : Variant ) : Integer
1543: Function IndexOfString( Alist : TStringList; Value : Variant ) : Integer
1544: Function IndyCompareStr( const A1 : string; const A2 : string ) : Integer
1545: Function IndyGetHostName : string
1546: Function IndyInterlockedDecrement( var I : Integer ) : Integer
1547: Function IndyInterlockedExchange( var A : Integer; B : Integer ) : Integer
1548: Function IndyInterlockedExchangeAdd( var A : Integer; B : Integer ) : Integer
1549: Function IndyInterlockedIncrement( var I : Integer ) : Integer
1550: Function IndyLowerCase( const A1 : string ) : string
1551: Function IndyStrToBool( const AString : String ) : Boolean
1552: Function IndyUpperCase( const A1 : string ) : string
1553: Function InitCommonControl( CC : Integer ) : Boolean
1554: Function InitTempPath : string
1555: Function InMainThread : boolean
1556: Function inOpArray( W : WideString; sets : array of WideChar ) : boolean
1557: Function Input : Text)
1558: Function InputBox( const ACaption, APrompt, ADefault : string ) : string
1559: function InputBox( const ACaption: string; const APrompt: string; const ADefault: string): string
1560: Function InputLn( const AMask: string; AEcho:Boolean;ATabWidth:Integer;AMaxLineLength:Integer): string
1561: Function InputQuery( const ACaption, APrompt : string; var Value : string ) : Boolean
1562: function InputQuery(const ACaption: string; const APrompt: string; var Value: string): Boolean
1563: Function InquireSignal( RtlSigNum: Integer ) : TSignalState
1564: Function InRangeR( const A, Min, Max : Double ) : Boolean
1565: function Insert( Index : Integer ) : TCollectionItem
1566: Function Insert( Index : Integer ) : TComboExItem
1567: Function Insert( Index : Integer ) : THeaderSection
1568: Function Insert( Index : Integer ) : TListItem
1569: Function Insert( Index : Integer ) : TStatusPanel
1570: Function Insert( Index : Integer ) : TWorkArea
1571: Function Insert( Index : LongInt; const Text : string ) : LongInt
1572: Function Insert( Sibling : TTreeNode; const S : string ) : TTreeNode
1573: Function INSERTNEWLINEAFTER( AITEM : TMENUITEM ) : INTEGER
1574: Function INSERTNEWLINEBEFORE( AITEM : TMENUITEM ) : INTEGER
1575: Function InsertNode( Node, Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode
1576: Function InsertObject( Index : LongInt; const Text : string; const Data : Pointer ) : LongInt
1577: Function InsertObject( Sibling : TTreeNode; const S : string; Ptr : Pointer ) : TTreeNode

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1578: Function Instance : Longint
1579: function InstanceSize: Longint
1580: Function Int(e : Extended) : Extended;
1581: function Int64ToStr(i: Int64): String;
1582: Function IntegerToBcd( const AValue : Integer) : TBcd
1583: Function Intensity( const Color32 : TColor32) : Integer;
1584: Function Intensity( const R, G, B : Single) : Single;
1585: Function InterestPayment( const Rate:Extended;Period,NPeriods:Integer;const PresentValue,
FutureValue:Extended; PaymentTime : TPaymentTime) : Extended
1586: Function InterestRate(NPeriods:Integer;const Payment,PresVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
1587: Function InternalDecodeDate( DateTime : TDateTime; var Year, Month, Day, DOW : Word) : Boolean
1588: Function InternalRateOfReturn( const Guess : Extended; const CashFlows : array of Double) : Extended
1589: Function InternalUpdateRecord( Tree : TUpdateTree) : Boolean
1590: Function IntersectRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
1591: function IntersectRect(out Rect: TRect; const R1, R2: TRect): Boolean)
1592: Function IntMibToStr( const Value : string) : string
1593: Function IntPower( const Base : Extended; const Exponent : Integer) : Extended
1594: Function IntToBin( Value : cardinal) : string
1595: Function IntToHex( Value : Integer; Digits : Integer) : string;
1596: function IntToHex(a: integer; b: integer): string;
1597: Function IntToHex64( Value : Int64; Digits : Integer) : string;
1598: function IntToHex64(Value: Int64; Digits: Integer): string)
1599: Function IntTo3Str( Value : Longint; separator: string) : string
1600: Function inttobool( aInt : LongInt) : Boolean
1601: function IntToStr(i: Int64): String;
1602: Function IntToStr64(Value: Int64): string)
1603: function IOResult: Integer
1604: Function IPv6AddressToStr(const AValue: TIdIPv6Address): string
1605: Function IsAccel(VK: Word; const Str: string): Boolean
1606: Function IsAddressInNetwork( Address : String) : Boolean
1607: Function IsAdministrator : Boolean
1608: Function IsAlias( const Name : string) : Boolean
1609: Function IsApplicationRunning( const AClassName, ApplName : string) : Boolean
1610: Function IsASCII( const AByte : Byte) : Boolean;
1611: Function IsASCIILDH( const AByte : Byte) : Boolean;
1612: Function IsAssembly(const FileName: string): Boolean;
1613: Function IsBcdNegative( const Bcd : TBcd) : Boolean
1614: Function IsBinary(const AChar : Char) : Boolean
1615: function IsConsole: Boolean)
1616: Function IsDelimiter( Delimiters, S : string; Index : Integer) : Boolean
1617: function IsDelimiter(const Delimiters: string; const S: string; Index: Integer): Boolean)
1618: Function IsDelphiDesignMode : boolean
1619: Function IsDelphiRunning : boolean
1620: Function IsDFAState : boolean
1621: Function IsDirectory( const FileName : string) : Boolean
1622: Function IsDomain( const S : String) : Boolean
1623: function IsDragObject(Sender: TObject): Boolean;
1624: Function IsEditing : Boolean
1625: Function ISEMPYTY : BOOLEAN
1626: Function IsEqual( Value : TParameters) : Boolean
1627: Function ISEQUAL( VALUE : TPARAMS) : BOOLEAN
1628: function IsEqualGUID(const guid1, guid2: TGUID): Boolean
1629: Function IsFirstNode : Boolean
1630: Function IsFloatZero( const X : Float) : Boolean
1631: Function IsFormatRegistered( Extension, AppID : string) : Boolean
1632: Function IsFormOpen(const FormName: string): Boolean;
1633: Function IsFQDN( const S : String) : Boolean
1634: Function IsGrayScale : Boolean
1635: Function IsHex( AChar : Char) : Boolean;
1636: Function IsHexString(const AString: string): Boolean;
1637: Function IsHostname( const S : String) : Boolean
1638: Function IsInfinite( const AValue : Double) : Boolean
1639: Function IsInLeapYear( const AValue : TDateTime) : Boolean
1640: Function IsInternet: boolean;
1641: Function IsLeadChar( ACh : Char) : Boolean
1642: Function IsLeapYear( Year : Word) : Boolean
1643: function IsLeapYear(Year: Word): Boolean)
1644: function IsLibrary: Boolean)
1645: Function ISLINE : BOOLEAN
1646: Function IsLinkedTo( DataSet : TDataSet) : Boolean
1647: Function ISLINKEDTO( DATA SOURCE : TDATASOURCE) : BOOLEAN
1648: Function IsLiteralChar( const EditMask : string; Offset : Integer) : Boolean
1649: Function IsMatch( const Pattern, Text : string) : Boolean //Grep like RegEx
1650: Function IsMainAppWindow( Wnd : HWND) : Boolean
1651: Function IsMediaPresentInDrive( Drive : Char) : Boolean
1652: function IsMemoryManagerSet: Boolean)
1653: Function IsMultiTableQuery( const SQL : WideString) : Boolean
1654: function IsMultiThread: Boolean)
1655: Function IsNumeric( AChar : Char) : Boolean;
1656: Function IsNumeric2( const AString : string) : Boolean;
1657: Function IsNTFS: Boolean;
1658: Function IsOctal( AChar : Char) : Boolean;
1659: Function IsOctalString(const AString: string): Boolean;
1660: Function IsPathDelimiter( S : string; Index : Integer) : Boolean
1661: function IsPathDelimiter(const S: string; Index: Integer): Boolean)
1662: Function IsPM( const AValue : TDateTime) : Boolean
1663: Function IsPositiveFloatArray( const X : TDynFloatArray) : Boolean
1664: Function IsPrimeFactor( const F, N : Cardinal) : Boolean

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1665: Function IsPrimeRM( N : Cardinal ) : Boolean //rabin miller
1666: Function IsPrimeTD( N : Cardinal ) : Boolean //trial division
1667: Function IsPrivilegeEnabled( const Privilege : string ) : Boolean
1668: Function ISqrt( const I : Smallint ) : Smallint
1669: Function IsReadOnly( const Filename: string): boolean;
1670: Function IsRectEmpty( const Rect : TRect ) : Boolean
1671: function IsRectEmpty(const Rect: TRect): Boolean)
1672: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1673: Function ISRIGHTTOLEFT : BOOLEAN
1674: function IsRightToLeft: Boolean
1675: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1676: Function ISSEQUENCED : BOOLEAN
1677: Function IsSystemModule( const Module : HMODULE ) : Boolean
1678: Function IsSystemResourcesMeterPresent : Boolean
1679: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: string): boolean;
1680: Function IsToday( const AValue : TdateTime ) : Boolean
1681: function IsToday(const AValue: TDateTime): Boolean;
1682: Function IsTopDomain( const AStr : string ) : Boolean
1683: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1684: Function IsUTF8String( const s : UTF8String ) : Boolean
1685: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1686: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1687: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1688: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1689: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1690: Function IsValidDateTime(const AYear,AMonth,ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1691: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1692: Function IsValidIdent( Ident : string ) : Boolean
1693: function IsValidIdent(const Ident: string; AllowDots: Boolean): Boolean)
1694: Function IsValidIP( const S : String ) : Boolean
1695: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1696: Function IsvalidISBN( const ISBN : AnsiString ) : Boolean
1697: Function IsVariantManagerSet: Boolean; //deprecated;
1698: Function IsVirtualPcGuest : Boolean;
1699: Function IsVmWareGuest : Boolean;
1700: Function IsVCLControl(Handle: HWnd): Boolean;
1701: Function IsWhiteString( const AStr : String ) : Boolean
1702: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1703: Function IsWoW64: boolean;
1704: Function IsWin64: boolean;
1705: Function IsWow64String(var s: string): Boolean;
1706: Function IsWin64String(var s: string): Boolean;
1707: Function IsWindowsVista: boolean;
1708: Function isPowerof2(num: int64): boolean;
1709: Function powerOf2(exponent: integer): int64;
1710: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1711: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1712: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1713: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean) : Integer
1714: function ITEMATPOS(POS:TPOINT:EXISTING:BOOLEAN):INTEGER
1715: Function ItemRect( Index : Integer) : TRect
1716: function ITEMRECT(INDEX:INTEGER):TRECT
1717: Function ItemWidth( Index : Integer) : Integer
1718: Function JavahashCode(val: string): Integer;
1719: Function JosephusG(n,k: integer; var graphout: string): integer;
1720: Function JulianDateToDate( const AValue : Double ) : TDateTime
1721: Function JvMessageBox( const Text, Caption : string; Flags : DWORD ) : Integer;
1722: Function JvMessageBox1( const Text : string; Flags : DWORD ) : Integer;
1723: Function KeepAlive : Boolean
1724: Function KeysToShiftState(Keys: Word): TShiftState;
1725: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1726: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1727: Function KeyboardStateToShiftState: TShiftState; overload;
1728: Function Languages : TLanguages
1729: Function Last : TClass
1730: Function Last : TComponent
1731: Function Last : TObject
1732: Function LastDelimiter( Delimiters, S : string ) : Integer
1733: function LastDelimiter(const Delimiters: string; const S: string): Integer
1734: Function LastPos( const ASubstr : string; const AStr : string ) : Integer
1735: Function Latitude2WGS84(lat: double): double;
1736: Function LCM(m,n:longint):longint;
1737: Function LCMJ( const X, Y : Cardinal ) : Cardinal
1738: Function Ldexp( const X : Extended; const P : Integer ) : Extended
1739: Function LeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
1740: Function LeftStr( const AText : WideString; const ACount : Integer ) : WideString;
1741: function Length: Integer;
1742: Procedure LetfileList(FileList: TStringlist; apath: string);
1743: function lengthmp3(mp3path: string):integer;
1744: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect ) : Boolean;
1745: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean;
1746: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean
1747: function LineStart(Buffer, BufPos: PChar): PChar
1748: function LineStart(Buffer, BufPos: PChar): PChar)
1749: function ListSeparator: char;
1750: function Ln(x: Extended): Extended;
1751: Function LnXP1( const X : Extended ) : Extended
1752: function Lo(vdat: word): byte;

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1753: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1754: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean) : Boolean
1755: Function LoadFileAsString( const FileName : string) : string
1756: Function LoadFromFile( const FileName : string) : TBitmapLoader
1757: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1758: Function LoadPackage(const Name: string): HMODULE
1759: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : HGLOBAL
1760: Function LoadStr( Ident : Integer) : string
1761: Function LoadString(Instance: Longint; IIdent: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1762: Function LoadWideStr( Ident : Integer) : WideString
1763: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1764: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HRESULT
1765: Function LockServer( fLock : LongBool) : HRESULT
1766: Function LockVolume( const Volume : string; var Handle : THandle) : Boolean
1767: Function Log( const X : Extended) : Extended
1768: Function Log10( const X : Extended) : Extended
1769: Function Log2( const X : Extended) : Extended
1770: function LogBase10(X: Float): Float;
1771: Function LogBase2(X: Float): Float;
1772: Function LogBaseN(Base, X: Float): Float;
1773: Function LogN( const Base, X : Extended) : Extended
1774: Function LogOffOS : Boolean
1775: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string) : Boolean
1776: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1777: Function LongDateFormat: string;
1778: function LongTimeFormat: string;
1779: Function LongWordToFourChar( ACARDINAL : LongWord) : string
1780: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1781: Function LookupName( const name : string) : TInAddr
1782: Function LookupService( const service : string) : Integer
1783: function Low: Int64;
1784: Function LowerCase( S : string) : string
1785: Function Lowercase(s : AnyString) : AnyString;
1786: Function LRot( const Value : Byte; const Count : TBitRange) : Byte;
1787: Function LRot1( const Value : Word; const Count : TBitRange) : Word;
1788: Function LRot2( const Value : Integer; const Count : TBitRange) : Integer;
1789: function MainInstance: longword
1790: function MainThreadID: longword
1791: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1792: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1793: Function MakeCanonicalIPv4Address( const AAaddr : string) : string
1794: Function MakeCanonicalIPv6Address( const AAaddr : string) : string
1795: Function MakeIDB( out Bitmap : PBitmapInfo) : Integer
1796: Function MakeWordIntoIPv4Address( const ADWord : Cardinal) : string
1797: function Makelong(A, B: Word): Longint)
1798: Function MakeTempFilename( const APATH : String) : string
1799: Function MakeValidFileName( const Str : string) : string
1800: Function MakeValueMap( Enumeration : string; ToCds : Boolean) : string
1801: function MakeWord(A, B: Byte): Word)
1802: Function MakeYear4Digit( Year, Pivot : Integer) : Integer
1803: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1804: Function MapValues( Mapping : string; Value : string) : string
1805: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char) : string
1806: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer) : TMaskCharType
1807: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer) : TMaskDirectives
1808: Function MaskGetFldSeparator( const EditMask : string) : Integer
1809: Function MaskGetMaskBlank( const EditMask : string) : Char
1810: Function MaskGetMaskSave( const EditMask : string) : Boolean
1811: Function MaskInitLiteralToChar( IChar : Char) : Char
1812: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer) : Integer
1813: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer) : Integer
1814: Function MaskString( Mask, Value : String) : String
1815: Function Match( const sString : string) : TniRegularExpressionMatchResult
1816: Function Match1( const sString : string; iStart : integer) : TniRegularExpressionMatchResult
1817: Function Matches( const Filename : string) : Boolean
1818: Function MatchesMask( const Filename, Mask : string) : Boolean
1819: Function MatchStr( const AText : string; const AValues : array of string) : Boolean
1820: Function MatchText( const AText : string; const AValues : array of string) : Boolean
1821: Function Max( AValueOne, AValueTwo : Integer) : Integer
1822: function Max(const x,y: Integer): Integer;
1823: Function Max1( const B1, B2 : Shortint) : Shortint;
1824: Function Max2( const B1, B2 : Smallint) : Smallint;
1825: Function Max3( const B1, B2 : Word) : Word;
1826: function Max3(const x,y,z: Integer): Integer;
1827: Function Max4( const B1, B2 : Integer) : Integer;
1828: Function Max5( const B1, B2 : Cardinal) : Cardinal;
1829: Function Max6( const B1, B2 : Int64) : Int64;
1830: Function Max64( const AValueOne, AValueTwo : Int64) : Int64
1831: Function MaxFloat( const X, Y : Float) : Float
1832: Function MaxFloatArray( const B : TDynFloatArray) : Float
1833: Function MaxFloatArrayIndex( const B : TDynFloatArray) : Integer
1834: function MaxIntValue(const Data: array of Integer):Integer)
1835: Function MaxJ( const B1, B2 : Byte) : Byte;
1836: function MaxPath: string;
1837: function MaxValue(const Data: array of Double): Double)
1838: Function MaxCalc( const Formula : string) : Extended //math expression parser
1839: Procedure MaxCalcF( const Formula : string); //out to console memo2
1840: function MD5(const fileName: string): string;
1841: Function Mean( const Data : array of Double) : Extended

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1842: Function Median( const X : TDynFloatArray ) : Float
1843: Function Memory : Pointer
1844: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer ) : Integer
1845: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1846: function MESSAGEBOX(TEXT,CAPTION:PCHAR;FLAGS:WORD):INTEGER
1847: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1848: Function MessageDlg1(const
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1849: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
  Y:Integer):Integer;
1850: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
1851: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
1852: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
  Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn ) : Integer;
1853: Function MibToId( Mib : string ) : string
1854: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer ) : AnsiString;
1855: Function MidStr( const AText : WideString; const AStart, ACount : Integer ) : WideString;
1856: Function microsecondsToCentimeters(mseconds:longint): longint; //340m/s speed of sound
1857: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64'
1858: Function MIDIOut( DeviceID : Cardinal ) : IJclMIDIOut
1859: Procedure GetMidiOutputs( const List : TStrings )
1860: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single ) : TSingleNoteTuningData
1861: Function MIDINoteToStr( Note : TMIDINote ) : string
1862: Function WinMidiOut( DeviceID : Cardinal ) : IJclWinMidiOut
1863: Procedure GetMidiOutputs( const List : TStrings )
1864: Procedure MidiOutCheck( Code : MMResult )
1865: Procedure MidiInCheck( Code : MMResult )
1866: Function MillisecondOf( const AValue : TDateTime ) : Word
1867: Function MillisecondOfTheDay( const AValue : TDateTime ) : LongWord
1868: Function MillisecondOfTheHour( const AValue : TDateTime ) : LongWord
1869: Function MillisecondOfTheMinute( const AValue : TDateTime ) : LongWord
1870: Function MillisecondOfTheMonth( const AValue : TDateTime ) : LongWord
1871: Function MillisecondOfTheSecond( const AValue : TDateTime ) : Word
1872: Function MillisecondOfTheWeek( const AValue : TDateTime ) : LongWord
1873: Function MillisecondOfTheYear( const AValue : TDateTime ) : Int64
1874: Function MillisecondsBetween( const ANow, AThen : TDateTime ) : Int64
1875: Function MillisecondSpan( const ANow, AThen : TDateTime ) : Double
1876: Function milliToDate( Millisecond : LongInt ) : TDateTime );
1877: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
1878: Function millis: int64;
1879: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1880: Function Min1( const B1, B2 : Shortint ) : Shortint;
1881: Function Min2( const B1, B2 : Smallint ) : Smallint;
1882: Function Min3( const B1, B2 : Word ) : Word;
1883: Function Min4( const B1, B2 : Integer ) : Integer;
1884: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1885: Function Min6( const B1, B2 : Int64 ) : Int64;
1886: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1887: Function MinClientRect : TRect;
1888: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1889: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1890: Function MinFloat( const X, Y : Float ) : Float
1891: Function MinFloatArray( const B : TDynFloatArray ) : Float
1892: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1893: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1894: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1895: function MinimizeName(const Filename: String; Canvas: TCanvas;MaxLen: Integer): TFileName
1896: Function MinIntValue( const Data : array of Integer ) : Integer
1897: function MinIntValue(const Data: array of Integer):Integer)
1898: Function MinJ( const B1, B2 : Byte ) : Byte;
1899: Function MinuteOf( const AValue : TDateTime ) : Word
1900: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1901: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1902: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1903: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1904: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1905: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1906: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1907: Function minValue( const Data : array of Double ) : Double
1908: function minValue(const Data: array of Double):Double)
1909: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1910: Function MMCheck( const MciError : MCIERROr; const Msg : string ) : MCIERROr
1911: Function ModFloat( const X, Y : Float ) : Float
1912: Function ModifiedJulianDateToDate( const AValue : Double ) : TDateTime
1913: Function Modify( const Key : string; Value : Integer ) : Boolean
1914: Function ModuleCacheID : Cardinal
1915: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1916: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1917: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1918: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1919: Function Monthof( const AValue : TDateTime ) : Word
1920: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1921: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1922: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1923: Function MonthStr( DateTime : TDateTime ) : string
1924: Function MouseCoord( X, Y : Integer ) : TGridCoord
1925: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER

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1926: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1927: Function MoveNext : Boolean
1928: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1929: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp
1930: Function Name : string
1931: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
  Double;PaymentTime:TPaymentTime):Extended
1932: function NetworkVolume(DriveChar: Char): string
1933: Function NEWBOTOMLINE : INTEGER
1934: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant ) : PExprNode
1935: Function NEWITEM( const ACAPTION : String; ASHORTCUT : TSHORTCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNOTIFYEVENT; HCTX : WORD; const ANAME : String ) : TMENUITEM
1936: Function NEWLINE : TMENUITEM
1937: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1938: Function NewNode(Kind : TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
  Right:PExprNode):PExprNode
1939: Function NEWPOPUPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPUPALIGNMENT;AUTOPOPUP:BOOLEAN;
  const ITEMS : array of TMenuItem) : TPOPUPMENU
1940: Function NewState( eType : TniRegularExpressionStateType ) : TniRegularExpressionState
1941: Function NEWSUBMENU(const ACAPT:String;HCTX:WORD;const ANAME:String;ITEMS:array of
  TMenuItem;AENABLED:BOOL): TMENUITEM
1942: Function NEWTOPLINE : INTEGER
1943: Function Next : TIdAuthWhatsNext
1944: Function NextCharIndex( S : String; Index : Integer ) : Integer
1945: Function NextRecordSet : TCustomSQLDataSet
1946: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1947: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLToken ) : TSQLToken;
1948: Function NextToken : Char
1949: Function nextToken : WideString
1950: function NextToken:Char
1951: Function Norm( const Data : array of Double ) : Extended
1952: Function NormalizeAngle( const Angle : Extended ) : Extended
1953: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1954: Function NormalizeRect( const Rect : TRect ) : TRect
1955: function NormalizeRect(const Rect: TRect): TRect;
1956: Function Now : TDateTime
1957: function Now2: tDateTime
1958: Function NumProcessThreads : integer
1959: Function NumThreadCount : integer
1960: Function NthDayOfWeek( const AValue : TDateTime ) : Word
1961: Function NtProductType : TNTProductType
1962: Function NtProductTypeString : string
1963: function Null: Variant;
1964: Function NullPoint : TPoint
1965: Function NullRect : TRect
1966: Function Null2Blank(aString:String):String;
1967: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue :
  Extended; PaymentTime : TPaymentTime ) : Extended
1968: Function NumIP : integer
1969: function Odd(x: Longint): boolean;
1970: Function OffsetFromUTC : TDateTime
1971: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
1972: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
1973: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean
1974: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
1975: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
1976: Function OldBCDTOCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
1977: Function OldCurrToBCD(const Curr:Currency; var BCD:TBcd; Precision:Integer;Decimals:Integer): Boolean
1978: function OpenBit:Integer
1979: Function OpenDatabase : TDatabase
1980: Function OpenDatabase( const DatabaseName : string ) : TDatabase
1981: Procedure OpenDir(adir: string);
1982: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
1983: Function OpenObject( Value : PChar ) : Boolean;
1984: Function OpenObject1( Value : string ) : Boolean;
1985: Function OpenSession( const SessionName : string ) : TSession
1986: Function OpenVolume( const Drive : Char ) : THandle
1987: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte): Cardinal
1988: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
1989: Function OrdToBinary( const Value : Byte ) : string;
1990: Function OrdToBinary1( const Value : Shortint ) : string;
1991: Function OrdToBinary2( const Value : Smallint ) : string;
1992: Function OrdToBinary3( const Value : Word ) : string;
1993: Function OrdToBinary4( const Value : Integer ) : string;
1994: Function OrdToBinary5( const Value : Cardinal ) : string;
1995: Function OrdToBinary6( const Value : Int64 ) : string;
1996: Function OSCheck( RetVal : Boolean ) : Boolean
1997: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
1998: Function OSIdentToString( const OSIdent : DWORD ) : string
1999: Function Output: Text)
2000: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2001: Function Owner : TCustomListView
2002: function Owner : TPersistent
2003: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2004: Function PadL( pStr : String; plth : integer ) : String
2005: Function Padl(s : AnyString;I : longInt) : AnyString;
2006: Function PadLCh( pStr : String; plth : integer; pChr : char ) : String
2007: Function PadR( pStr : String; plth : integer ) : String
2008: Function Padr(s : AnyString;I : longInt) : AnyString;

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2009: Function PadRCh( pStr : String; pLth : integer; pChr : char) : String
2010: Function PadString( const AString : String; const ALen : Integer; const AChar : Char) : String
2011: Function Padz(s : AnyString;I : longInt) : AnyString;
2012: Function PaethPredictor( a, b, c : Byte) : Byte
2013: Function PARAMBYNAME( const VALUE : String) : TPARAM
2014: Function ParamByName( const Value : WideString) : TParameter
2015: Function ParamCount: Integer
2016: Function ParamsEncode( const ASrc : string) : string
2017: function ParamStr(Index: Integer): string
2018: Function ParseDate( const DateStr : string) : TDateTime
2019: Function PARSESQL( SQL : string; DOCREATE : BOOLEAN) : String
2020: Function ParseSQL( SQL : WideString; DoCreate : Boolean) : WideString
2021: Function PathAddExtension( const Path, Extension : string) : string
2022: Function PathAddSeparator( const Path : string) : string
2023: Function PathAppend( const Path, Append : string) : string
2024: Function PathBuildRoot( const Drive : Byte) : string
2025: Function PathCanonicalize( const Path : string) : string
2026: Function PathCommonPrefix( const Path1, Path2 : string) : Integer
2027: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer:CmpFmt:TCompactPath):string;
2028: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int:CmpFmt:TCompactPath):string;
2029: Function PathEncode( const ASrc : string) : string
2030: Function PathExtractFileDirFixed( const S : AnsiString) : AnsiString
2031: Function PathExtractFileNameNoExt( const Path : string) : string
2032: Function PathExtractPathDepth( const Path : string; Depth : Integer) : string
2033: Function PathGetDepth( const Path : string) : Integer
2034: Function PathGetLongName( const Path : string) : string
2035: Function PathGetLongName2( Path : string) : string
2036: Function PathGetShortName( const Path : string) : string
2037: Function PathIsAbsolute( const Path : string) : Boolean
2038: Function PathIsChild( const Path, Base : AnsiString) : Boolean
2039: Function PathIsDiskDevice( const Path : string) : Boolean
2040: Function PathIsUNC( const Path : string) : Boolean
2041: Function PathRemoveExtension( const Path : string) : string
2042: Function PathRemoveSeparator( const Path : string) : string
2043: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2044: Function Peek : Pointer
2045: Function Peek : TObject
2046: function PERFORM(MSG:CARDINAL;WPARAM:LPARAM:LONGINT):LONGINT
2047: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2048: function Permutation(npr, k: integer): extended;
2049: function PermutationInt(npr, k: integer): Int64;
2050: Function PermutationJ( N, R : Cardinal) : Float
2051: Function Pi : Extended;
2052: Function PiE : Extended;
2053: Function PixelsToDialogsX( const Pixels : Word) : Word
2054: Function PixelsToDialogsY( const Pixels : Word) : Word
2055: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2056: Function Point( X, Y : Integer) : TPoint
2057: function Point(X, Y: Integer): TPoint)
2058: Function PointAssign( const X, Y : Integer) : TPoint
2059: Function PointDist( const P1, P2 : TPoint) : Double;
2060: function PointDist(const P1,P2: TFloatPoint): Double;
2061: Function PointDist1( const P1, P2 : TFloatPoint) : Double;
2062: function PointDist2(const P1,P2: TPoint): Double;
2063: Function PointEqual( const P1, P2 : TPoint) : Boolean
2064: Function PointIsNull( const P : TPoint) : Boolean
2065: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint) : Double
2066: Function Poly( const X : Extended; const Coefficients : array of Double) : Extended
2067: Function PortTCPISOpen(dwPort : Word; ipAddressStr: String): boolean;
2068: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2069: Function Pop : Pointer
2070: Function Pop : TObject
2071: Function PopnStdDev( const Data : array of Double) : Extended
2072: Function PopnVariance( const Data : array of Double) : Extended
2073: Function PopulationVariance( const X : TDynFloatArray) : Float
2074: function Pos(SubStr, S: AnyString): Longint;
2075: Function PosEqual( const Rect : TRect) : Boolean
2076: Function PosEx( const SubStr, S : string; Offset : Integer) : Integer
2077: Function PosInSmallIntArray( const ASearchInt : SmallInt; AArray : array of SmallInt) : Integer
2078: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2079: Function Post1( AURL : string; const ASource : TStrings) : string;
2080: Function Post2( AURL : string; const ASource : TStream) : string;
2081: Function Post3( AURL : string; const ASource : TIdMultiPartFormDataStream) : string;
2082: Function PostData( const UserData : WideString; const CheckSum : DWORD) : Boolean
2083: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2084: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2085: Function Power( const Base, Exponent : Extended) : Extended
2086: Function PowerBig(aval, n:integer): string;
2087: Function PowerIntJ( const X : Float; N : Integer) : Float;
2088: Function PowerJ( const Base, Exponent : Float) : Float;
2089: Function PowerOfOS : Boolean
2090: Function PreformatDateString( Ps : string) : string
2091: Function PresentValue(const Rate:Extend/NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2092: Function PrimeFactors( N : Cardinal) : TDynCardinalArray
2093: Function Printer : TPrinter
2094: Function ProcessPath2( const ABasePath:String; const APATH: String; const APathDelim:string): string

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2095: Function ProcessResponse : TIdHTTPWhatsNext
2096: Function ProduceContent : string
2097: Function ProduceContentFromStream( Stream : TStream ) : string
2098: Function ProduceContentFromString( const S : string ) : string
2099: Function ProgIDToClassID( const ProgID: string): TGUID;
2100: Function PromptDataLinkfile( ParentHandle : THandle; InitialFile : WideString ) : WideString
2101: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString ) : WideString
2102: Function PromptFileName( var AFileName : string; const AFiliter : string; const ADefaultExt : string;
  const ATitle : string; const AInitialDir : string; SaveDialog : Boolean ) : Boolean
2103: function PromptFileName(var AFileName: string; const AFiliter: string; const ADefaultExt: string;const
  ATitle: string; const AInitialDir: string; SaveDialog: Boolean): Boolean)
2104: Function PSScriptNeedFile(Sender:TObject;const OrginFileName:String;var FileName,Output:String):Boolean
2105: Function PtInRect( const Rect : TRect; const P : TPoint ) : Boolean
2106: function PtInRect(const Rect: TRect; const P: TPoint): Boolean
2107: Function Push( AItem : Pointer ) : Pointer
2108: Function Push( AObject : TObject ) : TObject
2109: Function Putl( AURL : string; const ASource : TStream ) : string;
2110: Function Pythagoras( const X, Y : Extended ) : Extended
2111: Function queryDLLInterface( var queryList : TStringList ) : TStringList
2112: Function queryDLLInterfaceTwo( var queryList : TStringList ) : TStringList
2113: Function QueryInterface( const IID: TGUID; out Obj: HResult, CdStdCall
2114: Function queryPerformanceCounter2(mse: int64): int64;
2115: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2116: //Function QueryPerformanceFrequency(mse: int64): boolean;
2117: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2118: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2119: Procedure QueryPerformanceCounter1(var aC: Int64);
2120: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2121: Function Quote( const ACommand : String ) : SmallInt
2122: Function QuotedStr( S : string ) : string
2123: Function RadToCycle( const Radians : Extended ) : Extended
2124: Function RadToDeg( const Radians : Extended ) : Extended
2125: Function RadToDeg( const Value : Extended ) : Extended;
2126: Function RadToDeg1( const Value : Double ) : Double;
2127: Function RadToDeg2( const Value : Single ) : Single;
2128: Function RadToGrad( const Radians : Extended ) : Extended
2129: Function RadToGrad( const Value : Extended ) : Extended;
2130: Function RadToGrad1( const Value : Double ) : Double;
2131: Function RadToGrad2( const Value : Single ) : Single;
2132: Function RandG( Mean, StdDev : Extended ) : Extended
2133: function Random(const ARange: Integer): Integer;
2134: function random2(a: integer): double
2135: function RandomE: Extended;
2136: function RandomF: Extended;
2137: Function RandomFrom( const AValues : array of string ) : string;
2138: Function RandomRange( const AFrom, ATo : Integer ) : Integer
2139: function randSeed: longint
2140: Function RawToDataColumn( ACol : Integer ) : Integer
2141: Function Read : Char
2142: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint ) : HResult
2143: function Read(Buffer:String;Count:LongInt):LongInt
2144: Function ReadBinaryStream( const Section, Name : string; Value : TStream ) : Integer
2145: Function ReadBool( const Section, Ident : string; Default : Boolean ) : Boolean
2146: Function ReadCardinal( const AConvert : boolean ) : Cardinal
2147: Function ReadChar : Char
2148: Function ReadClient( var Buffer, Count : Integer ) : Integer
2149: Function ReadDate( const Section, Name : string; Default : TDateTime ) : TDateTime
2150: Function ReadDateTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2151: Function ReadFloat( const Section, Name : string; Default : Double ) : Double
2152: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:
  Bool):Int
2153: Function ReadInteger( const AConvert : boolean ) : Integer
2154: Function ReadInteger( const Section, Ident : string; Default : Longint ) : Longint
2155: Function ReadLn : string
2156: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLineLength : Integer ) : string
2157: function ReadLn(question: string): string;
2158: Function ReadLnWait( AFailCount : Integer ) : string
2159: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2160: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2161: Function ReadSmallInt( const AConvert : boolean ) : SmallInt
2162: Function ReadString( const ABytes : Integer ) : string
2163: Function ReadString( const Section, Ident, Default : string ) : string
2164: Function ReadString( Count : Integer ) : string
2165: Function ReadTime( const Section, Name : string; Default : TDateTime ) : TDateTime
2166: Function ReadTimeStampCounter : Int64
2167: Function RebootOS : Boolean
2168: Function Receive( ATimeOut : Integer ) : TReplyStatus
2169: Function ReceiveBuf( var Buf, Count : Integer ) : Integer
2170: Function ReceiveLength : Integer
2171: Function ReceiveText : string
2172: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2173: Function ReceiveSerialText: string
2174: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word ) : TDateTime
2175: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,
  AMilliSec:Word):TDateTime
2176: Function RecodeDay( const AValue : TDateTime; const ADay : Word ) : TDateTime
2177: Function RecodeHour( const AValue : TDateTime; const AHour : Word ) : TDateTime
2178: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word ) : TDateTime
2179: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word ) : TDateTime

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2180: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word ) : TDateTime
2181: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word ) : TDateTime
2182: Function RecodeTime( const AValue: TDateTime; const AHour,AMinute,ASecond,AMilliSecond:Word):TDateTime
2183: Function RecodeYear( const AValue : TDateTime; const AYear : Word ) : TDateTime
2184: Function Reconcile( const Results : OleVariant ) : Boolean
2185: Function Rect( Left, Top, Right, Bottom : Integer ) : TRect
2186: function Rect(ALeft: Integer; ATop: Integer; ARight: Integer; ABOTTOM: Integer): TRect
2187: Function Rect2( const ATopLeft, ABottomRight : TPoint ) : TRect;
2188: Function RectAssign( const Left, Top, Right, Bottom : Integer ) : TRect
2189: Function RectAssignPoints( const TopLeft, BottomRight : TPoint ) : TRect
2190: Function RectBounds( const Left, Top, Width, Height : Integer ) : TRect
2191: Function RectCenter( const R : TRect ) : TPoint
2192: Function RectEqual( const R1, R2 : TRect ) : Boolean
2193: Function RectHeight( const R : TRect ) : Integer
2194: Function RectIncludesPoint( const R : TRect; const Pt : TPoint ) : Boolean
2195: Function RectIncludesRect( const R1, R2 : TRect ) : Boolean
2196: Function RectIntersection( const R1, R2 : TRect ) : TRect
2197: Function RectIntersectRect( const R1, R2 : TRect ) : Boolean
2198: Function RectIsEmpty( const R : TRect ) : Boolean
2199: Function RectIsNull( const R : TRect ) : Boolean
2200: Function RectIsSquare( const R : TRect ) : Boolean
2201: Function RectisValid( const R : TRect ) : Boolean
2202: Function RectsAreValid( R : array of TRect ) : Boolean
2203: Function RectUnion( const R1, R2 : TRect ) : TRect
2204: Function RectWidth( const R : TRect ) : Integer
2205: Function RedComponent( const Color32 : TColor32 ) : Integer
2206: Function Refresh : Boolean
2207: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2208: Function RegisterConversionFamily( const ADescription : string ) : TConvFamily
2209: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType ) : Boolean;
2210: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2211: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2212: Function ReleaseDC(hdwnd: HWND; hdc: HDC): integer;
2213: Function ReleaseHandle : HBITMAP
2214: Function ReleaseHandle : HENHMETAFILE
2215: Function ReleaseHandle : HICON
2216: Function ReleasePalette : HPALETTE
2217: Function RemainderFloat( const X, Y : Float ) : Float
2218: Function Remove( AClass : TClass ) : Integer
2219: Function Remove( AComponent : TComponent ) : Integer
2220: Function Remove( AItem : Integer ) : Integer
2221: Function Remove( AItem : Pointer ) : Pointer
2222: Function Remove( AItem : TObject ) : TObject
2223: Function Remove( AObject : TObject ) : Integer
2224: Function RemoveBackslash( const PathName : string ) : string
2225: Function RemoveDF( aString : String ) : String //removes thousand separator
2226: Function RemoveDir( Dir : string ) : Boolean
2227: function RemoveDir(const Dir: string): Boolean
2228: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2229: Function RemoveFileExt( const FileName : string ) : string
2230: Function RemoveHeaderEntry( AHeader, AEntry : string ) : string
2231: Function RenameFile( OldName, NewName : string ) : Boolean
2232: function RenameFile(const OldName: string; const NewName: string): Boolean
2233: Function ReplaceStr( const AText, AFromText, AToText : string ) : string
2234: Function ReplaceText( const AText, AFromText, AToText : string ) : string
2235: Function Replicate(c : char;I : longInt) : String;
2236: Function Request : TWebRequest
2237: Function ResemblesText( const AText, AOther : string ) : Boolean
2238: Function Reset : Boolean
2239: function Reset2(mypath: string):string;
2240: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2241: Function ResourceLoad( RestType : TResType; const Name : string; MaskColor : TColor ) : Boolean
2242: Function Response : TWebResponse
2243: Function ResumeSupported : Boolean
2244: Function RETHINKHOTKEYS : BOOLEAN
2245: Function RETHINKLINES : BOOLEAN
2246: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2247: Function RetrieveCurrentDir : string
2248: Function RetrieveDeltas( const cdsArray : array of TClientDataset ) : Variant
2249: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2250: Function RetrieveMailBoxSize : integer
2251: Function RetrieveMsgSize( const MsgNum : Integer ) : Integer
2252: Function RetrieveProviders( const cdsArray : array of TClientDataset ) : Variant
2253: Function RetrieveRaw( const MsgNum: Integer; const Dest : TStrings ) : boolean
2254: Function ReturnMIMETYPE( var MediaType, EncType : String ) : Boolean
2255: Function ReverseBits( Value : Byte) : Byte;
2256: Function ReverseBits1( Value : Shortint ) : Shortint;
2257: Function ReverseBits2( Value : Smallint ) : Smallint;
2258: Function ReverseBits3( Value : Word) : Word;
2259: Function ReverseBits4( Value : Cardinal) : Cardinal;
2260: Function ReverseBits4( Value : Integer) : Integer;
2261: Function ReverseBits5( Value : Int64) : Int64;
2262: Function ReverseBytes( Value : Word) : Word;
2263: Function ReverseBytes1( Value : Smallint ) : Smallint;
2264: Function ReverseBytes2( Value : Integer) : Integer;
2265: Function ReverseBytes3( Value : Cardinal ) : Cardinal;
2266: Function ReverseBytes4( Value : Int64) : Int64;
2267: Function ReverseString( const AText : string ) : string
2268: Function ReverseDNSLookup(const IPAddrs:String;DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;

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2269: Function Revert : HResult
2270: Function RGB(R,G,B: Byte): TColor;
2271: Function RGB2BGR( const Color : TColor) : TColor
2272: Function RGB2TColor( R, G, B : Byte) : TColor
2273: Function RGBToWebColorName( RGB : Integer) : string
2274: Function RGBToWebColorStr( RGB : Integer) : string
2275: Function RgbToHtml( Value : TColor) : string
2276: Function HtmlToRgb(const Value: string): TColor;
2277: Function RightStr( const AStr : String; Len : Integer) : String
2278: Function RightStr( const AText : AnsiString; const ACount : Integer) : AnsiString;
2279: Function RightStr( const AText : WideString; const ACount : Integer) : WideString;
2280: Function ROL( AVal : LongWord; AShift : Byte) : LongWord
2281: Function ROR( AVal : LongWord; AShift : Byte) : LongWord
2282: Function RotatePoint( Point : TFloPoint; const Center : TFloPoint; const Angle : Float) : TFloPoint
2283: function RotatePoint(Point: TFloPoint; const Center: TFloPoint; const Angle: Double): TFloPoint;
2284: Function Round(e : Extended) : Longint;
2285: Function Round64(e: extended): Int64;
2286: Function RoundAt( const Value : string; Position : SmallInt) : string
2287: type TRoundToRange = -37..37; TRoundToEXRangeExtended = -20..20;
2288: Function RoundTo(const AValue: Extended; const ADigit: TRoundToEXRangeExtended): Extended;'+');
2289: Function SimpleRoundTo(const AValue: Extended; const ADigit: TRoundToRange): Extended;'+');
2290: Function RoundFrequency( const Frequency : Integer) : Integer
2291: Function RoundInt( Value : Integer; StepSize : Integer) : Integer
2292: Function RoundPoint( const X, Y : Double) : TPoint
2293: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double) : TRect
2294: Function RowCount : Integer
2295: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant
2296: Function RowRequest( Row : OleVariant; Options : TFetchOptions) : OleVariant
2297: Function RPos( const ASub, AIn : String; AStart : Integer) : Integer
2298: Function RRot( const Value : Byte; const Count : TBitRange) : Byte;
2299: Function RRot1( const Value : Word; const Count : TBitRange) : Word;
2300: Function RRot2( const Value : Integer; const Count : TBitRange) : Integer;
2301: Function RunDLL32(const ModuleNa,FuncName,Cmdline:string;WaitForCompletion:Bool;CmdShow:Integer):Boolean
2302: Function RunningProcessesList( const List : TStrings; FullPath : Boolean) : Boolean
2303: Function S_AddBackSlash( const ADirName : string) : string
2304: Function S_AllTrim( const cStr : string) : string
2305: Function S_AtRepl( const cAT, cStr, cRepl : string) : string
2306: Function S_Cut( const cStr : string; const iLen : integer) : string
2307: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer) : integer
2308: Function S_DirExists( const Adir : string) : Boolean
2309: Function S_Empty( const cStr : string) : boolean
2310: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer) : string
2311: Function S_LargeFontsActive : Boolean
2312: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer) : Extended
2313: Function S_LTrim( const cStr : string) : string
2314: Function S_ReadNextTextLineFromStream( stream : TStream) : string
2315: Function S_RepeatChar( const iLen : integer; const AChar : Char) : String
2316: Function S_ReplFirst( const cAT, cStr, cRepl : string) : string
2317: Function S_RoundDecimal( AValue : Extended; APPlaces : Integer) : Extended
2318: Function S_RTrim( const cStr : string) : string
2319: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer) : string
2320: //Type TS_ShellExecuteCmd = (seCmdOpen,seCmdPrint,seCmdExplore);
2321: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd) : string
2322: Function S_Space( const iLen : integer) : String
2323: Function S_StrBlanks( const cStr : string; const iLen : integer) : string
2324: Function S_StrBlanksCuttoLong( const cStr : string; const iLen : integer) : string
2325: Function S_StrCRC32( const Text : string) : LongWORD
2326: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2327: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer) : string
2328: Function S_StringtoUTF_8( const AString : string) : string
2329: Function S_StrLBlanks( const cStr : string; const iLen : integer) : string
2330: function S_StrToReal(const cStr: string; var R: Double): Boolean
2331: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean) : boolean
2332: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean) : string
2333: Function S_UTF_8ToString( const AString : string) : string
2334: Function S_WBox( const AText : string) : integer
2335: Function SameDate( const A, B : TDateTime) : Boolean
2336: function SameDate(const A, B: TDateTime): Boolean;
2337: Function SameDateTime( const A, B : TDateTime) : Boolean
2338: function SameDateTime(const A, B: TDateTime): Boolean;
2339: Function SamefileName( S1, S2 : string) : Boolean
2340: Function SameText( S1, S2 : string) : Boolean
2341: function SameText(const S1: string; const S2: string): Boolean)
2342: Function SameTime( const A, B : TDateTime) : Boolean
2343: function SameTime(const A, B: TDateTime): Boolean;
2344: function SameValue(const A, B: Extended; Epsilon: Extended): Boolean //overload;
2345: function SameValue1(const A, B: Double; Epsilon: Double): Boolean //overload;
2346: function SameValue2(const A, B: Single; Epsilon: Single): Boolean //overload;
2347: Function SampleVariance( const X : TDynFloatArray) : Float
2348: Function Sar( const Value : Shortint; const Count : TBitRange) : Shortint;
2349: Function Sar1( const Value : Smallint; const Count : TBitRange) : Smallint;
2350: Function Sar2( const Value : Integer; const Count : TBitRange) : Integer;
2351: Function SaveToFile( const AFileName : TFileName) : Boolean
2352: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2353: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, aFileName: string; openexcel: boolean): Boolean;
2354: Function ScanF(const aformat: String; const args: array of const): string;
2355: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT
2356: Function SearchBuf(Buf:PChar; BufLen:Integer; SelStart,SelLength:Integer;SearchString:String;Options: TStringSearchOptions):PChar

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2357: Function SearchBuf2(Buf: String; SelStart, SelLength: Integer; SearchString:
  String; Options:TStringSearchOptions): Integer;
2358: function SearchRecattr: integer;
2359: function SearchRecExcludeAttr: integer;
2360: Function SearchRecFileSize64( const SearchRec : TSearchRec ) : Int64
2361: function SearchRecname: string;
2362: function SearchRecsize: integer;
2363: function SearchRectime: integer;
2364: Function Sec( const X : Extended ) : Extended
2365: Function Secant( const X : Extended ) : Extended
2366: Function SecH( const X : Extended ) : Extended
2367: Function SecondOf( const AValue : TDateTime ) : Word
2368: Function SecondOfTheDay( const AValue : TDateTime ) : LongWord
2369: Function SecondOfTheHour( const AValue : TDateTime ) : Word
2370: Function SecondOfTheMinute( const AValue : TDateTime ) : Word
2371: Function SecondOfTheMonth( const AValue : TDateTime ) : LongWord
2372: Function SecondOfTheWeek( const AValue : TDateTime ) : LongWord
2373: Function SecondOfTheYear( const AValue : TDateTime ) : LongWord
2374: Function SecondsBetween( const ANow, AThen : TDateTime ) : Int64
2375: Function SecondSpan( const ANow, AThen : TDateTime ) : Double
2376: Function SectionExists( const Section : string ) : Boolean
2377: Function Seek( const KeyValues : Variant; SeekOption : TSeekOption ) : Boolean
2378: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint ) : HResult
2379: function Seek(Offset:LongInt;Origin:Word):LongInt
2380: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2381: Function SelectDirectory( const Caption : string; const Root : WideString; var Directory : string;
  Options : TSelectDirExtOpts; Parent : TwinControl ) : Boolean;
2382: Function SelectImage( var AFileName : string; const Extensions, Filter : string ) : Boolean
2383: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2384: Function SendBuf( var Buf, Count : Integer ) : Integer
2385: Function SendCmd( const AOut : string; const AResponse : SmallInt ) : SmallInt;
2386: Function SendCmd1( const AOut : string; const AResponse : array of SmallInt ) : SmallInt;
2387: Function SendKey( AppName : string; Key : Char ) : Boolean
2388: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2389: Function SendStream( AStream : TStream ) : Boolean
2390: Function SendStreamThenDrop( AStream : TStream ) : Boolean
2391: Function SendText( const S : string ) : Integer
2392: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2393: Function SendSerialText(Data: String): cardinal
2394: Function Sent : Boolean
2395: Function ServicesFilePath: string
2396: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer ) : TColor32
2397: Function SetBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2398: Function SetBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2399: Function SetBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2400: Function SetBit3( const Value : Word; const Bit : TBitRange ) : Word;
2401: Function SetBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2402: Function SetBit4( const Value : Integer; const Bit : TBitRange ) : Integer;
2403: Function SetBit5( const Value : Int64; const Bit : TBitRange ) : Int64;
2404: Function SetClipboard( NewClipboard : TClipboard ) : TClipboard
2405: Function SetColorBlue( const Color : TColor; const Blue : Byte ) : TColor
2406: Function SetColorFlag( const Color : TColor; const Flag : Byte ) : TColor
2407: Function SetColorGreen( const Color : TColor; const Green : Byte ) : TColor
2408: Function SetColorRed( const Color : TColor; const Red : Byte ) : TColor
2409: Function SetCurrentDir( Dir : string ) : Boolean
2410: function SetCurrentDir(const Dir: string): Boolean
2411: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2412: Function SetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
2413: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
2414: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
2415: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
2416: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2417: Function SetEnvironmentVar( const Name, Value : string ) : Boolean
2418: Function SetErrorProc( ErrorProc : TSocketErrorProc ) : TSocketErrorProc
2419: Function SetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
2420: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
2421: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
2422: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer ) : Boolean
2423: function SETFOCUSDECONTROL(CONTROL:TWINCONTROL):BOOLEAN
2424: Function SetLocalTime( Value : TDateTime ) : boolean
2425: Function SetPrecisionTolerance( NewTolerance : Float ) : Float
2426: Function SetPrinter( NewPrinter : TPrinter ) : TPrinter
2427: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2428: Function SetRGBValue( const Red, Green, Blue : Byte ) : TColor
2429: Function SetSequence( S, Localizar, Substituir : shortstring ) : shortstring
2430: Function SetSize( libNewSize : Longint ) : HResult
2431: Function SetUserObjectFullAccess( hUserObject : THandle ) : Boolean
2432: Function Sgn( const X : Extended ) : Integer
2433: function SHA1(const fileName: string): string;
2434: function SHA256(astr: string; amode: char): string
2435: function SHA512(astr: string; amode: char): string
2436: Function ShareMemoryManager : Boolean
2437: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2438: function Shelleexecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2439: Function Shelleexecute3(afilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2440: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE ) : TSHORCUT
2441: Function SHORTCUTTOTEXT( SHORTCUT : TSHORCUT ) : String
2442: function ShortDateFormat: string;
2443: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
  RTL:Bool;EllipsisWidth:Int):WideString

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2444: function ShortTimeFormat: string;
2445: function SHOWMODAL:INTEGER
2446: Function ShowModalControl(aControl : TControl; BS : TFormBorderStyle; BI : TBorderIcons; WS : TWindowState; aColor : TColor; BW : Integer; Title : String; BeforeShowModal : TNotifyEvent) : TModalResult';
2447: Function
  ShowModalPanel(aPnl:TCustomPanel;Titl:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2448: function ShowWindow(C1: HWND; C2: integer): boolean;
2449: procedure ShowMemory //in Dialog
2450: function ShowMemory2: string;
2451: Function ShutDownOS : Boolean
2452: Function Signe( const X, Y : Extended) : Extended
2453: Function Sign( const X : Extended) : Integer
2454: Function Sin(e : Extended) : Extended;
2455: Function sinc( const x : Double) : Double
2456: Function SinJ( X : Float) : Float
2457: Function Size( const AFileName : String) : Integer
2458: function SizeOf: Longint;
2459: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle) : Integer
2460: function SlashSep(const Path, S: String): String
2461: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer) : Extended
2462: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
2463: Function SmallPoint(X, Y: Integer): TSmallPoint)
2464: Function Soundex( const AText : string; ALength : TSoundexLength) : string
2465: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength) : Integer
2466: Function SoundexInt( const AText : string; ALength : TSoundexIntLength) : Integer
2467: Function SoundexProc( const AText, AOther : string) : Boolean
2468: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength) : Boolean
2469: Function SoundexWord( const AText : string) : Word
2470: Function SourcePos : Longint
2471: function SourcePos:LongInt
2472: Function Split0( Str : string; const substr : string) : TStringList
2473: Procedure SplitNameValue( const Line : string; var Name, Value : string)
2474: Function SQLRequiresParams( const SQL : WideString) : Boolean
2475: Function Sqre(e : Extended) : Extended;
2476: Function Sqrt(e : Extended) : Extended;
2477: Function StartIP : String
2478: Function StartPan( WndHandle : THandle; AControl : TControl) : Boolean
2479: Function StartOfADay( const AYear, AMonth, ADay : Word) : TDateTime;
2480: Function StartOfDay1( const AYear, ADayOfYear : Word) : TDateTime;
2481: Function StartOfMonth( const AYear, AMonth : Word) : TDateTime
2482: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word) : TDateTime
2483: Function StartOfAYear( const AYear : Word) : TDateTime
2484: Function StartOfTheDay( const AValue : TDateTime) : TDateTime
2485: Function StartOfTheMonth( const AValue : TDateTime) : TDateTime
2486: Function StartOfTheWeek( const AValue : TDateTime) : TDateTime
2487: Function StartOfTheYear( const AValue : TDateTime) : TDateTime
2488: Function StartsStr( const ASubText, AText : string) : Boolean
2489: Function StartsText( const ASubText, AText : string) : Boolean
2490: Function StartsWith( const ANSIStr, APattern : String) : Boolean
2491: Function StartsWith( const str : string; const sub : string) : Boolean
2492: Function StartsWithACE( const ABytes : TIdBytes) : Boolean
2493: Function StatusString( StatusCode : Integer) : string
2494: Function StdDev( const Data : array of Double) : Extended
2495: Function Stop : Float
2496: Function StopCount( var Counter : TJclCounter) : Float
2497: Function StoreColumns : Boolean
2498: Function StrAfter( const sString : string; const sDelimiters : string) : string;
2499: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2500: Function StrAlloc( Size : Cardinal) : PChar
2501: function StrAlloc(Size: Cardinal): PChar
2502: Function StrBefore( const sString : string; const sDelimiters : string) : string;
2503: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2504: Function StrBufSize( Str : PChar) : Cardinal
2505: function StrBufSize(const Str: PChar): Cardinal
2506: Function StrByteType( Str : PChar; Index : Cardinal) : TMbcsByteType
2507: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType
2508: Function StrCat( Dest : PChar; Source: PChar) : PChar
2509: function StrCat(Dest: PChar; const Source: PChar): PChar
2510: Function StrCharLength( Str : PChar) : Integer
2511: Function StrComp( Str1, Str2 : PChar) : Integer
2512: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2513: Function StrCopy( Dest : PChar; Source : PChar) : PChar
2514: function StrCopy(Dest: PChar; const Source: PChar): PChar)
2515: Function Stream_to_AnsiString( Source : TStream) : ansistring
2516: Function Stream_to_Base64( Source : TStream) : ansistring
2517: Function Stream_to_decimalbytes( Source : TStream) : string
2518: Function Stream2WideString( oStream : TStream) : WideString
2519: Function StreamtoAnsiString( Source : TStream) : ansistring
2520: Function StreamToByte( Source : TStream) : string
2521: Function StreamToDecimalbytes( Source : TStream) : string
2522: Function StreamtoOrd( Source : TStream) : string
2523: Function StreamToString( Source : TStream) : string
2524: Function StrECopy( Dest : PChar; Source : PChar) : PChar
2525: Function StrEmpty( const String : string) : boolean
2526: Function StrEnd( Str : PChar) : PChar
2527: function StrEnd(const Str: PChar): PChar)
2528: Function StrFilter( const sString : string; xValidChars : TCharSet) : string
2529: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar)

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2530: Function StrGet(var S : String; I : Integer) : Char;
2531: Function StrGet2(S : String; I : Integer) : Char;
2532: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2533: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2534: Function StrHtmlDecode( const AStr : String) : String
2535: Function StrHtmlEncode( const AStr : String) : String
2536: Function StrToBytes(const Value: String): TBytes;
2537: Function StrICmp( Str1, Str2 : PChar) : Integer
2538: Function StringOfChar(c : char;I : longInt) : String;
2539: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2540: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2541: Function StringRefCount(const s: String): integer;
2542: Function StringReplace( S, OldPattern : string; Flags : TReplaceFlags) : string
2543: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2544: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2545: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2546: Function StringToBoolean( const Ps : string) : Boolean
2547: function StringToColor(const S: string): TColor
2548: function StringToCursor(const S: string): TCursor;
2549: function StringToGUID(const S: string): TGUID
2550: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2551: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2552: Function StringWidth( S : string) : Integer
2553: Function StrInternetToDateTIme( Value : string) : TDateTime
2554: Function StrIsDatetime( const Ps : string) : Boolean
2555: Function StrIsFloatMoney( const Ps : string) : Boolean
2556: Function StrIsInteger( const S : string) : Boolean
2557: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2558: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2559: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2560: Function StrLen( Str : PChar) : Cardinal
2561: function StrLen(const Str: PChar): Cardinal
2562: Function StrLessPrefix( const sString : string; const sPrefix : string) : string
2563: Function StrLessSuffix( const sString : string; const sSuffix : string) : string
2564: Function StrLICmp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2565: Function StrLower( Str : PChar) : PChar
2566: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal) : PChar
2567: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar
2568: Function StrNew( Str : PChar) : PChar
2569: function StrNew(const Str: PChar): PChar
2570: Function StrNextChar( Str : PChar) : PChar
2571: Function StrPad( const sString : string; const sPad : string; const iLength : integer) : string
2572: Function StrParse( var sString : string; const sDelimiters : string) : string;
2573: Function StrParseSel( var sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2574: Function StrPas( Str : PChar) : string
2575: function StrPas(const Str: PChar): string
2576: Function StrPCopy( Dest : PChar; Source : string) : PChar
2577: function StrPCCopy(Dest: PChar; const Source: string): PChar)
2578: Function StrPLCopy( Dest : PChar; Source : string; MaxLen : Cardinal) : PChar
2579: Function StrPos( Str1, Str2 : PChar) : PChar
2580: Function StrScan(const Str: PChar; Chr: Char): PChar)
2581: Function StrRScan(const Str: PChar; Chr: Char): PChar)
2582: Function StrToBcd( const AValue : string) : TBcd
2583: Function StrToBool( S : string) : Boolean
2584: Function StrToBoolDef( S : string; Default : Boolean) : Boolean
2585: Function StrToCard( const AStr : String) : Cardinal
2586: Function StrToConv( AText : string; out AType : TConvType) : Double
2587: Function StrToCurr( S : string) : Currency;
2588: function StrToCurr(const S: string): Currency)
2589: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2590: Function StrToDate( S : string) : TDateTime;
2591: function StrToDate(const s: string): TDateTime;
2592: Function StrToDateDef( S : string; Default : TDateTime) : TDateTime;
2593: Function StrToDateTIme( S : string) : TDateTime;
2594: function StrToDateTIme(const S: string): TDateTime)
2595: Function StrToDateTImeDef( S : string; Default : TDateTime) : TDateTime;
2596: Function StrToDay( const ADay : string) : Byte
2597: Function StrToFloat( S : string) : Extended;
2598: function StrToFloat(s: String): Extended;
2599: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2600: function StrToFloatDef(const S: string; const Default: Extended): Extended)
2601: Function StrToFloat( S : string) : Extended;
2602: Function StrToFloat2( S : string; FormatSettings : TFormatSettings) : Extended;
2603: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2604: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2605: Function StrToCurr( S : string) : Currency;
2606: Function StrToCurr2( S : string; FormatSettings : TFormatSettings) : Currency;
2607: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2608: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings) : Currency;
2609: Function StrToTime2( S : string; FormatSettings : TFormatSettings) : TDateTime;
2610: Function StrToTimeDef( S : string; Default : TDateTime) : TDateTime;
2611: Function StrToTimeDef2( S : string; Default : TDateTime; FormatSettings:TFormatSettings):TDateTime;
2612: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2613: Function StrToDateTime( S : string) : TDateTime;
2614: Function StrToDateTime2( S : string; FormatSettings : TFormatSettings) : TDateTime;
2615: Function StrToDateTimeDef( S : string; Default : TDateTime) : TDateTime;
2616: Function StrToFloatRegionalIndependent(AValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2617: Function StrToInt( S : string) : Integer
2618: function StrToInt(s: String): Longint;

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2619: Function StrToInt64( S : string ) : Int64
2620: function StrToInt64(s: String): int64;
2621: Function StrToInt64Def( S : string; Default : Int64 ) : Int64
2622: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2623: Function StrToIntDef( S : string; Default : Integer ) : Integer
2624: function StrToIntDef(const S: string; Default: Integer): Integer)
2625: function StrToIntDef(s: String; def: Longint): Longint;
2626: Function StrToMonth( const AMonth : string ) : Byte
2627: Function StrToTime( S : string ) : TDateTime;
2628: function StrToTime(const S: string): TDateTime)
2629: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2630: Function StrToWord( const Value : String ) : Word
2631: Function StrToXmlDate( const DateStr : string; const Format : string ) : string
2632: Function StrToXmlDateTime( const DateStr : string; const Format : string ) : string
2633: Function StrToXmlTime( const TimeStr : string; const Format : string ) : string
2634: Function StrUpper( Str : PChar ) : PChar
2635: Function StuffString( const AText : string; AStart, ALen : Cardinal; const ASubText : string ) : string
2636: Function Sum( const Data : array of Double ) : Extended
2637: Function SumFloatArray( const B : TDynFloatArray ) : Float
2638: Function SumInt( const Data : array of Integer ) : Integer
2639: Function SumOfSquares( const Data : array of Double ) : Extended
2640: Function SumPairProductFloatArray( const X, Y : TDynFloatArray ) : Float
2641: Function SumSquaredDiffFloatArray( const B : TDynFloatArray; Diff : Float ) : Float
2642: Function SumSquareFloatArray( const B : TDynFloatArray ) : Float
2643: Function Supports( CursorOptions : TCursorOptions ) : Boolean
2644: Function SupportsClipboardFormat( AFormat : Word ) : Boolean
2645: Function SwapWord(w : word): word)
2646: Function SwapInt(i : integer): integer)
2647: Function SwapLong(L : longint): longint)
2648: Function Swap(i : integer): integer)
2649: Function SYDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
2650: Function SyncTime : Boolean
2651: Function SysErrorMessage( ErrorCode : Integer ) : string
2652: function SysErrorMessage(ErrorCode: Integer): string)
2653: Function SystemTimeToDateTime( SystemTime : TSystemTime ) : TDateTime
2654: function SystemTimeToDateTime(const SystemTime: TSystemTime): TDateTime;
2655: Function SysStringLen(const S: WideString): Integer; stdcall;
2656: Function TabRect( Index : Integer ) : TRect
2657: Function Tan( const X : Extended ) : Extended
2658: Function TaskMessageDlg(const Title,
Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2659: Function TaskMessageDlg1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx : Longint; DefaultButton : TMsgDlgBtn ) : Integer;
2660: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx : Longint; X, Y : Integer ) : Integer;
2661: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
2662: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
2663: Function TaskMessageDlgPosHelp1(const Title, Msg:string;DlgType: TMsgDlgType; Buttons : TMsgDlgButtons;
HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2664: Function TenToY( const Y : Float ) : Float
2665: Function TerminateApp( ProcessID : DWORD; Timeout : Integer ) : TJclTerminateAppResult
2666: Function TerminateTask( Wnd : HWND; Timeout : Integer ) : TJclTerminateAppResult
2667: Function TestBit( const Value : Byte; const Bit : TBitRange ) : Boolean;
2668: Function TestBit2( const Value : Shortint; const Bit : TBitRange ) : Boolean;
2669: Function TestBit3( const Value : Smallint; const Bit : TBitRange ) : Boolean;
2670: Function TestBit4( const Value : Word; const Bit : TBitRange ) : Boolean;
2671: Function TestBit5( const Value : Cardinal; const Bit : TBitRange ) : Boolean;
2672: Function TestBit6( const Value : Integer; const Bit : TBitRange ) : Boolean;
2673: Function TestBit7( const Value : Int64; const Bit : TBitRange ) : Boolean;
2674: Function TestBits( const Value, Mask : Byte ) : Boolean;
2675: Function TestBits1( const Value, Mask : Shortint ) : Boolean;
2676: Function TestBits2( const Value, Mask : Smallint ) : Boolean;
2677: Function TestBits3( const Value, Mask : Word ) : Boolean;
2678: Function TestBits4( const Value, Mask : Cardinal ) : Boolean;
2679: Function TestBits5( const Value, Mask : Integer ) : Boolean;
2680: Function TestBits6( const Value, Mask : Int64 ) : Boolean;
2681: Function TestFDIVInstruction : Boolean
2682: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2683: Function TextExtent( const Text : string ) : TSize
2684: function TextHeight(Text: string): Integer;
2685: Function TextIsSame( const A1 : string; const A2 : string ) : Boolean
2686: Function TextStartsWith( const S, SubS : string ) : Boolean
2687: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean)
2688: Function ConvInteger(i : integer):string;
2689: Function IntegerToText(i : integer):string;
2690: Function TEXTTOSHORTCUT( TEXT : String ) : TSHORCUT
2691: function TextWidth(Text: string): Integer;
2692: Function ThreadCount : integer
2693: function ThousandSeparator: char;
2694: Function Ticks : Cardinal
2695: Function Time : TDateTime
2696: function Time: TDateTime;
2697: function TimeGetTime: int64;
2698: Function TimeOf( const AValue : TDateTime ) : TDateTime
2699: function TimeSeparator: char;
2700: functionTimeStampToDateTIme(const TimeStamp: TTimeStamp): TDateTime
2701: Function TimeStampToMSEcs( TimeStamp : TTimeStamp ) : Comp

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2702: function TimeStampToMSEcs( const TimeStamp: TTimeStamp): Comp)
2703: Function TimeToStr( DateTime : TDateTime) : string;
2704: function TimeToStr( const DateTime: TDateTime): string;
2705: Function TimeZoneBias : TDateTime
2706: Function ToCommon( const AValue : Double) : Double
2707: function ToCommon( const AValue: Double): Double;
2708: Function Today : TDateTime
2709: Function ToggleBit( const Value : Byte; const Bit : TBitRange) : Byte;
2710: Function ToggleBit1( const Value : Shortint; const Bit : TBitRange) : Shortint;
2711: Function ToggleBit2( const Value : Smallint; const Bit : TBitRange) : Smallint;
2712: Function ToggleBit3( const Value : Word; const Bit : TBitRange) : Word;
2713: Function ToggleBit4( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
2714: Function ToggleBit5( const Value : Integer; const Bit : TBitRange) : Integer;
2715: Function ToggleBit6( const Value : Int64; const Bit : TBitRange) : Int64;
2716: function TokenComponentIdent: String
2717: Function TokenFloat : Extended
2718: function TokenFloat: Extended
2719: Function TokenInt : Longint
2720: function TokenInt: LongInt
2721: Function TokenString : string
2722: function TokenString: String
2723: Function TokenSymbolIs( const S : string) : Boolean
2724: function TokenSymbolIs(S:string):Boolean
2725: Function Tomorrow : TDateTime
2726: Function ToRightOf( const pc : TControl; piSpace : Integer) : Integer
2727: Function ToString : string
2728: Function TotalVariance( const Data : array of Double) : Extended
2729: Function Trace2( AURL : string) : string;
2730: Function TrackMenu( Button : TToolButton) : Boolean
2731: Function TRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN) : INTEGER
2732: Function TranslateURI( const URI : string) : string
2733: Function TranslationMatchesLanguages( Exact : Boolean) : Boolean
2734: Function TransparentStretchBlt( DstDC : HDC; DstX,DstY,DstW,DstH:Integer;SrcDC:HDC;SrcX,SrcY,SrcW,
    SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer) : Boolean
2735: Function Trim( S : string) : string;
2736: Function Trim( S : WideString) : WideString;
2737: Function Trim( S : AnyString) : AnyString;
2738: Function TrimAllOf( ATrim, AText : String) : String
2739: Function TrimLeft( S : string) : string;
2740: Function TrimLeft( S : WideString) : WideString;
2741: function TrimLeft(const S: string): string)
2742: Function TrimRight( S : string) : string;
2743: Function TrimRight( S : WideString) : WideString;
2744: function TrimRight(const S: string): string)
2745: function TrueBoolStrs: array of string
2746: Function Trunc(e : Extended) : Longint;
2747: Function Trunc64(e: extended): Int64;
2748: Function TruncPower( const Base, Exponent : Float) : Float
2749: Function TryConvTypeToFamily( const AFrom, ATo : TConvType; out AFamily : TConvFamily) : Boolean;
2750: Function TryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily) : Boolean;
2751: function TryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2752: Function TryEncodeDateDay( const AYear, ADayOfYear: Word; out AValue : TDateTime) : Boolean
2753: Function TryEncodeDateMonthWeek( const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2754: Function TryEncodeDateTime( const AYear,AMonth,ADay,AHour,AMin,ASec,AMilliSecond:Word; out
    AValue:TDateTime):Boolean
2755: Function TryEncodeDateWeek( const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2756: Function TryEncodeDayOfWeekInMonth( const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
    AVal:TDateTime):Bool
2757: function TryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2758: Function TryFloatToDate( Value : Extended; AResult : TDateTime) : Boolean
2759: Function TryJulianDateToDate( const AValue : Double; out ADate : TDateTime) : Boolean
2760: Function TryLock : Boolean
2761: Function TryModifiedJulianDateToDate( const AValue : Double; out ADate : TDateTime) : Boolean
2762: Function TryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
    AMilliSecond : Word; out AResult : TDateTime) : Boolean
2763: Function TryStrToBcd( const AValue : string; var Bcd : TBcd) : Boolean
2764: Function TryStrToConv( AText : string; out AValue : Double; out AType : TConvType) : Boolean
2765: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2766: Function TryStrToDate( S : string; Value : TDateTime) : Boolean;
2767: Function TryStrToTime( S : string; Value : TDateTime) : Boolean;
2768: Function TryStrToInt( const S : AnsiString; var I: Integer): Boolean;
2769: Function TryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2770: Function TwoByteToWord( AByte1, AByte2 : Byte) : Word
2771: Function TwoCharToWord( AChar1, AChar2 : Char) : Word
2772: Function TwoToY( const Y : Float) : Float
2773: Function UCS4StringToWideString( const S : UCS4String) : WideString
2774: Function UIDL( const ADest : TStrings; const AMsgNum : Integer) : Boolean
2775: function Unassigned: Variant;
2776: Function UndoLastChange( FollowChange : Boolean) : Boolean
2777: function UniCodeToStr( Value: string): string;
2778: Function UnionRect( out Rect : TRect; const R1, R2 : TRect) : Boolean
2779: function UnionRect(out Rect: TRect; const R1, R2: TRect): Boolean)
2780: Function UnixDateTimeToDelphiDateTime( UnixDateTime : Cardinal) : TDateTime
2781: Function UnixPathToDosPath( const Path : string) : string
2782: Function UnixToDate( const AValue : Int64) : TDateTime
2783: function UnixToDate(U: Int64): TDateTime;
2784: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
2785: Function UnlockResource( ResData : HGLOBAL) : LongBool
2786: Function UnlockVolume( var Handle : THandle) : Boolean

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2787: Function UnMaskString( Mask, Value : String ) : String
2788: function UpCase(ch : Char ) : Char;
2789: Function UpCaseFirst( const AStr : string ) : string
2790: Function UpCaseFirstWord( const AStr : string ) : string
2791: Function UpdateAction( Action : TBasicAction ) : Boolean
2792: Function UpdateKind : TUpdateKind
2793: Function UPDATESTATUS : TUPDATESTATUS
2794: Function UpperCase( S : string ) : string
2795: Function Uppercase(s : AnyString) : AnyString;
2796: Function URLDecode( ASrc : string ) : string
2797: Function URLEncode( const ASrc : string ) : string
2798: Function UseRightToLeftAlignment : Boolean
2799: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment ) : Boolean
2800: Function UseRightToLeftReading : Boolean
2801: Function UTF8CharLength( Lead : Char ) : Integer
2802: Function UTF8CharSize( Lead : Char ) : Integer
2803: Function UTF8Decode( const S : UTF8String ) : WideString
2804: Function UTF8Encode( const WS : WideString ) : UTF8String
2805: Function UTF8LowerCase( const S : UTF8String ) : UTF8String
2806: Function Utf8ToAnsi( const S : UTF8String ) : string
2807: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer ) : string
2808: Function UTF8UpperCase( const S : UTF8String ) : UTF8String
2809: Function ValidFieldIndex( FieldIndex : Integer ) : Boolean
2810: Function ValidParentForm(control: TControl): TForm
2811: Function Value : Variant
2812: Function ValueExists( const Section, Ident : string ) : Boolean
2813: Function ValueOf( const Key : string ) : Integer
2814: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2815: Function VALUEOFKEY( const AKEY : VARIANT ) : VARIANT
2816: Function VarArrayFromStrings( Strings : TStrings ) : Variant
2817: Function VarArrayFromWideStrings( Strings : TWideStrings ) : Variant
2818: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2819: Function VarFMTBcd : TVarType
2820: Function VarFMTBcdCreate1 : Variant;
2821: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word ) : Variant;
2822: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word ) : Variant;
2823: Function VarFMTBcdCreate4( const ABCd : TBcd ) : Variant;
2824: Function Variance( const Data : array of Double ) : Extended
2825: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant
2826: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant
2827: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant
2828: Function VariantGetElement( const V : Variant; i1 : integer ) : Variant;
2829: Function VariantGetElement1( const V : Variant; i1, i2 : integer ) : Variant;
2830: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer ) : Variant;
2831: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer ) : Variant;
2832: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer ) : Variant;
2833: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant
2834: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant
2835: Function VariantNeg( const V1 : Variant ) : Variant
2836: Function VariantNot( const V1 : Variant ) : Variant
2837: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant
2838: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant
2839: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant
2840: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant
2841: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant
2842: function VarIsEmpty(const V: Variant): Boolean;
2843: Function VarIsFMTBcd( const AValue : Variant ) : Boolean;
2844: function VarIsNull(const V: Variant): Boolean;
2845: Function VarToBcd( const AValue : Variant ) : TBcd
2846: function VarType(const V: Variant): TVarType;
2847: Function VarType( const V : Variant ) : TVarType
2848: Function VarAsType( const V : Variant; AVarType : TVarType ) : Variant
2849: Function VarIsType( const V : Variant; AVarType : TVarType ) : Boolean;
2850: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType ) : Boolean;
2851: Function VarIsByRef( const V : Variant ) : Boolean
2852: Function VarIsEmpty( const V : Variant ) : Boolean
2853: Procedure VarCheckEmpty( const V : Variant )
2854: Function VarIsNull( const V : Variant ) : Boolean
2855: Function VarIsClear( const V : Variant ) : Boolean
2856: Function VarIsCustom( const V : Variant ) : Boolean
2857: Function VarIsOrdinal( const V : Variant ) : Boolean
2858: Function VarIsFloat( const V : Variant ) : Boolean
2859: Function VarIsNumeric( const V : Variant ) : Boolean
2860: Function VarIsStr( const V : Variant ) : Boolean
2861: Function VarToStr( const V : Variant ) : string
2862: Function VarToStrDef( const V : Variant; const ADefault : string ) : string
2863: Function VarToWideStr( const V : Variant ) : WideString
2864: Function VarToWideStrDef( const V : Variant; const ADefault : WideString ) : WideString
2865: Function VarToDateTIme( const V : Variant ) : TDateTIme
2866: Function VarFromDateTIme( const DateTIme : TDateTIme ) : Variant
2867: Function VarInRange( const AValue, AMin, AMax : Variant ) : Boolean
2868: Function VarEnsureRange( const AValue, AMin, AMax : Variant ) : Variant
2869: TVariantRelationship', '( vrEqual, vrLessThan, vrGreaterThan, vrNotEqual )
2870: Function VarSameValue( const A, B : Variant ) : Boolean
2871: Function VarCompareValue( const A, B : Variant ) : TVariantRelationship
2872: Function VarIsEmptyParam( const V : Variant ) : Boolean
2873: Function VarIsError( const V : Variant; out AResult : HRESULT ) : Boolean;
2874: Function VarIsError1( const V : Variant ) : Boolean;
2875: Function VarAsError( AResult : HRESULT ) : Variant

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2876: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant)
2877: Function VarIsArray( const A : Variant) : Boolean;
2878: Function VarIsArray( const A : Variant; AResolveByRef : Boolean) : Boolean;
2879: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType) : Variant
2880: Function VarArrayOf( const Values : array of Variant) : Variant
2881: Function VarArrayRef( const A : Variant) : Variant
2882: Function VarTypeisValidArrayType( const AVarType : TVarType) : Boolean
2883: Function VarTypeisValidElementType( const AVarType : TVarType) : Boolean
2884: Function VarArrayDimCount( const A : Variant) : Integer
2885: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer
2886: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer
2887: Function VarArrayLock( const A : Variant) : __Pointer
2888: Procedure VarArrayUnlock( const A : Variant)
2889: Function VarArrayGet( const A : Variant; const Indices : array of Integer) : Variant
2890: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer)
2891: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer)
2892: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer)
2893: Function Unassigned : Variant
2894: Function Null : Variant
2895: Function VectorAdd( const V1, V2 : TFloPoint) : TFloPoint
2896: function VectorAdd(const V1,V2: TFloPoint): TFloPoint;
2897: Function VectorDot( const V1, V2 : TFloPoint) : Double
2898: function VectorDot(const V1,V2: TFloPoint): Double;
2899: Function VectorLengthSqr( const V : TFloPoint) : Double
2900: function VectorLengthSqr(const V: TFloPoint): Double;
2901: Function VectorMult( const V : TFloPoint; const s : Double) : TFloPoint
2902: function VectorMult(const V: TFloPoint; const s: Double): TFloPoint;
2903: Function VectorSubtract( const V1, V2 : TFloPoint) : TFloPoint
2904: function VectorSubtract(const V1,V2: TFloPoint): TFloPoint;
2905: Function Verify( AUserName : String) : String
2906: Function Versine( X : Float) : Float
2907: function VersionCheck: boolean;
2908: function VersionCheckAct: string;
2909: Function VersionLanguageId( const LangIdRec : TLangIdRec) : string
2910: Function VersionLanguageName( const LangId : Word) : string
2911: Function VersionResourceAvailable( const FileName : string) : Boolean
2912: Function Visible : Boolean
2913: function VolumeID(DriveChar: Char): string
2914: Function WaitFor( const AString : string) : string
2915: Function WaitFor( const TimeOut : Cardinal) : TJclWaitResult
2916: Function WaitForl : TWaitResult;
2917: Function WaitForData( Timeout : Longint) : Boolean
2918: Function WebColorNameToColor( WebColorName : string) : TColor
2919: Function WebColorStrToColor( WebColor : string) : TColor
2920: Function WebColorToRGB( WebColor : Integer) : Integer
2921: Function wGet(aURL, afile: string): boolean;
2922: Function wGet2(aURL, afile: string): boolean; //without file open
2923: Function WebGet(aURL, afile: string): boolean;
2924: Function WebExists: boolean; //alias to isinternet
2925: Function WeekOf( const AValue : TDateTime) : Word
2926: Function WeekOfTheMonth( const AValue : TDateTime) : Word;
2927: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word) : Word;
2928: Function WeekOfTheYear( const AValue : TDateTime) : Word;
2929: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word) : Word;
2930: Function WeeksBetween( const ANow, AThen : TDateTime) : Integer
2931: Function WeeksInAYear( const AYear : Word) : Word
2932: Function WeeksInYear( const AValue : TDateTime) : Word
2933: Function WeekSpan( const ANow, ATThen : TDateTime) : Double
2934: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineStyle) : WideString
2935: Function WideCat( const x, y : WideString) : WideString
2936: Function WideCompareStr( S1, S2 : WideString) : Integer
2937: function WideCompareStr(const S1: WideString; const S2: WideString): Integer
2938: Function WideCompareText( S1, S2 : WideString) : Integer
2939: function WideCompareText(const S1: WideString; const S2: WideString): Integer
2940: Function WideCopy( const src : WideString; index, count : Integer) : WideString
2941: Function WideDequotedStr( const S : WideString; AQuote : WideChar) : WideString
2942: Function WideEqual( const x, y : WideString) : Boolean
2943: function WideFormat(const Format: WideString; const Args: array of const): WideString
2944: Function WideGreater( const x, y : WideString) : Boolean
2945: Function WideLength( const src : WideString) : Integer
2946: Function WideLess( const x, y : WideString) : Boolean
2947: Function WidelowerCase( S : WideString) : WideString
2948: function WidelowerCase(const S: WideString): WideString
2949: Function WidePos( const src, sub : WideString) : Integer
2950: Function WideQuotedStr( const S : WideString; Quote : WideChar) : WideString
2951: Function WideReplaceStr( const AText, AFromText, AToText : WideString) : WideString
2952: Function WideReplaceText( const AText, AFromText, AToText : WideString) : WideString
2953: Function WideSameStr( S1, S2 : WideString) : Boolean
2954: function WideSameStr(const S1: WideString; const S2: WideString): Boolean
2955: Function WideSameText( S1, S2 : WideString) : Boolean
2956: function WideSameText(const S1: WideString; const S2: WideString): Boolean
2957: Function WideStringReplace(const S,OldPattern, NewPattern: Widestring; Flags: TReplaceFlags): Widestring
2958: Function WideStringToUCS4String( const S : WideString) : UCS4String
2959: Function WideUpperCase( S : WideString) : WideString
2960: Function Win32BackupFile( const FileName : string; Move : Boolean) : Boolean
2961: function Win32Check(RetVal: boolean): boolean;
2962: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
2963: Function Win32RestoreFile( const FileName : string) : Boolean
2964: Function Win32Type : TIdWin32Type

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2965: Function WinColor( const Color32 : TColor32) : TColor
2966: function winexec(FileName: pchar; showCmd: integer): integer;
2967: Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
2968: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
2969: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer) : Boolean
2970: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64) : Boolean
2971: Function WithinPastMilliSeconds( const ANow, AThen : TDateTime; const AMilliSeconds : Int64) : Boolean
2972: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64) : Boolean
2973: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer) : Boolean
2974: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASeconds : Int64) : Boolean
2975: Function WithinPastWeeks( const ANow, AThen : TDateTime; const AWeeks : Integer) : Boolean
2976: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer) : Boolean
2977: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar) : DWORD
2978: Function WordToStr( const Value : Word) : String
2979: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint) : Boolean
2980: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string) : Boolean
2981: Procedure GetWordGridFormatValues( Proc : TGetStrProc)
2982: Function WorkArea : Integer
2983: Function WrapText( Line : string; MaxCol : Integer) : string;
2984: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer) : string;
2985: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint) : HResult
2986: function Write(Buffer:String;Count:LongInt):LongInt
2987: Function WriteClient( var Buffer, Count : Integer) : Integer
2988: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean) : Cardinal
2989: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string) : Boolean
2990: Function WriteString( const AString : string) : Boolean
2991: Function WStrGet( var S : AnyString; I : Integer) : WideChar;
2992: Function wvsprintf( Output : PChar; Format : PChar; arglist : va_list) : Integer
2993: Function wsprintf( Output : PChar; Format : PChar) : Integer
2994: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string) : string
2995: Function XmlTimeToStr( const XmlTime : string; const Format : string) : string
2996: Function XorDecode( const Key, Source : string) : string
2997: Function XorEncode( const Key, Source : string) : string
2998: Function XorString( const Key, Src : ShortString) : ShortString
2999: Function Yield : Bool
3000: Function YearOf( const AValue : TDateTime) : Word
3001: Function YearsBetween( const ANow, AThen : TDateTime) : Integer
3002: Function YearSpan( const ANow, AThen : TDateTime) : Double
3003: Function Yesterday : TDateTime
3004: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3005: Function( const Name : string; Proc : TUUserFunction)
3006: Function using Special_Scholz from 3.8.5.0
3007: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3008: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3009: Function FloatToTime2Dec(value:Extended):Extended;
3010: Function MinToStd(value:Extended):Extended;
3011: Function MinToStdAsString(value:Extended):String;
3012: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3013: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3014: Function Round2Dec (zahl:Extended):Extended;
3015: Function GetAngle(x,y:Extended):Double;
3016: Function AddAngle(a1,a2:Double):Double;
3017:
3018: ****
3019: unit uPSI_StText;
3020: ****
3021: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
3022: Function TextFileSize( var F : TextFile) : LongInt
3023: Function TextPos( var F : TextFile) : LongInt
3024: Function TextFlush( var F : TextFile) : Boolean
3025:
3026: ****
3027: from JvVCLUtils;
3028: ****
3029: { Windows resources (bitmaps and icons) VCL-oriented routines }
3030: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3031: procedure DrawBitmapRectTransparent(Dest: TCanvas; DstX,
  DstY:Int;SrcRect:TRect;Bitmap:TBitmap;TransparColor:TColor);
3032: procedure StretchBitmapRectTransparent(Dest: TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect;
  Bitmap: TBitmap; TransparentColor: TColor);
3033: function MakeBitmap(ResID: PChar): TBitmap;
3034: function MakeBitmapID(ResID: Word): TBitmap;
3035: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3036: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3037: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3038: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor,
  3039:   HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3040: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3041: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3042: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3043: {$IFDEF WIN32}
3044: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
  3045:   X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3046: {$ENDIF}
3047: function MakeIcon(ResID: PChar): TIcon;
3048: function MakeIconID(ResID: Word): TIcon;
3049: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3050: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3051: {$IFDEF WIN32}

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

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3139: Procedure SetIMEName( Name : TIMEName )
3140: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean ) : Boolean
3141: Function Imm32GetContext( hWnd : HWND ) : HIMC
3142: Function Imm32ReleaseContext( hWnd : HWND; hIMC : HIMC ) : Boolean
3143: Function Imm32GetConversionStatus( hIMC : HIMC; var Conversion, Sentence : longword ) : Boolean
3144: Function Imm32SetConversionStatus( hIMC : HIMC; Conversion, Sentence : longword ) : Boolean
3145: Function Imm32SetOpenStatus( hIMC : HIMC; fOpen : Boolean ) : Boolean
3146: // Function Imm32SetCompositionWindow( hIMC : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3147: //Function Imm32SetCompositionFont( hIMC : HIMC; lpLogFont : PLOGFONTA ) : Boolean
3148: Function Imm32GetCompositionString(hIMC:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3149: Function Imm32IsIME( hKL : longword ) : Boolean
3150: Function Imm32NotifyIME( hIMC : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3151: Procedure DragDone( Drop : Boolean )
3152:
3153:
3154: //***** added from jvvcutils
3155: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3156: function ReplaceComponentReference(This, NewReference: TComponent; var VarReference: TComponent): Boolean;
3157: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3158: function IsPositiveResult(Value: TModalResult): Boolean;
3159: function IsNegativeResult(Value: TModalResult): Boolean;
3160: function IsAbortResult(const Value: TModalResult): Boolean;
3161: function StripAllFromResult(const Value: TModalResult): TModalResult;
3162: // returns either BrightColor or DarkColor depending on the luminance of AColor
3163: // This function gives the same result (AFAIK) as the function used in Windows to
3164: // calculate the desktop icon text color based on the desktop background color
3165: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3166: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3167:
3168: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3169:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3170:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3171:   var LinkName: string; Scale: Integer = 100); overload;
3172: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3173:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3174:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3175:   var LinkName: string; Scale: Integer = 100); overload;
3176: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3177:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3178: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3179:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3180:   Scale: Integer = 100): string;
3181: function HTMLPlainText(const Text: string): string;
3182: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3183:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3184: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3185:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3186: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3187: function HTMLPrepareText(const Text: string): string;
3188:
3189: ***** uPSI_JvAppUtils;
3190: Function GetDefaultSection( Component : TComponent ) : string
3191: Procedure GetDefaultIniData(Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean)
3192: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string )
3193: Function GetDefaultIniName : string
3194: //OnGetDefaultIniName , 'TOnGetDefaultIniName';
3195: Function GetDefaultIniRegKey : string
3196: Function FindForm( FormClass : TFormClass ) : TForm
3197: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm
3198: Function ShowDialog( FormClass : TFormClass ) : Boolean
3199: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm
3200: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3201: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3202: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile )
3203: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string )
3204: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string )
3205: Function GetUniqueFileNameInDir( const Path, FileNameMask : string ) : string
3206: Function StrToInIstr( const Str : string ) : string
3207: Function IniStrToStr( const Str : string ) : string
3208: Function IniReadString( IniFile : TObject; const Section, Ident, Default : string ) : string
3209: Procedure IniWriteString( IniFile : TObject; const Section, Ident, Value : string )
3210: Function IniReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint
3211: Procedure IniWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint )
3212: Function IniReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean
3213: Procedure IniWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean )
3214: Procedure IniReadSections( IniFile : TObject; Strings : TStrings )
3215: Procedure IniEraseSection( IniFile : TObject; const Section : string )
3216: Procedure IniDeleteKey( IniFile : TObject; const Section, Ident : string )
3217: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint )
3218: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint )
3219: Procedure AppTaskbarIcons( AppOnly : Boolean )
3220: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3221: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3222: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject )
3223: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject )
3224: ***** uPSI_JvDBUtils;
3225: Function CreateLocate( DataSet : TDataSet ) : TJvLocateObject
3226: Function IsDataSetEmpty( DataSet : TDataSet ) : Boolean
3227: Procedure RefreshQuery( Query : TDataSet )

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3228: Function DataSetSortedSearch(DataSet:TDataSet;const Value,FieldName:string;CaseInsensitive:Bool):Boolean
3229: Function DataSetSectionName( DataSet : TDataSet ) : string
3230: Procedure InternalSaveFields( DataSet : TDataSet; IniFile : TObject; const Section : string)
3231: Procedure InternalRestoreFields(DataSet:TDataSet;IniFile:TObject;const Section:string;RestoreVisible:Bool)
3232: Function DataSetLocateThrough(DataSet:TDataSet; const KeyFields: string; const KeyValues: Variant;
  Options: TLocateOptions) : Boolean
3233: Procedure SaveFields( DataSet : TDataSet; IniFile : TIIniFile)
3234: Procedure RestoreFields( DataSet : TDataSet; IniFile : TIIniFile; RestoreVisible : Boolean)
3235: Procedure AssignRecord( Source, Dest : TDataSet; ByName : Boolean)
3236: Function ConfirmDelete : Boolean
3237: Procedure ConfirmDataSetCancel( DataSet : TDataSet)
3238: Procedure CheckRequiredField( Field : TField)
3239: Procedure CheckRequiredFields( const Fields : array of TField)
3240: Function DateToSQL( Value : TDateTime ) : string
3241: Function FormatSQLDateRange( Date1, Date2 : TDateTime; const FieldName : string ) : string
3242: Function FormatSQLDateRangeEx( Date1, Date2 : TDateTime; const FieldName : string ) : string
3243: Function FormatSQLNumericRange(const FieldName:string;LowVal,HighVal,LowEmpty,
  HighEmpty:Double;Inclusive:Bool):string
3244: Function StrMaskSQL( const Value : string ) : string
3245: Function FormatSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3246: Function FormatAnsiSQLCondition(const FieldName,Operator,Val:string;FieldType:TFieldType;Exact:Bool):string
3247: Procedure _DBError( const Msg : string )
3248: Const ('TrueExpr','String '0=0
3249: Const (' sdfStandard16 ','String ''''mm'/'dd'/'yyyy'''')
3250: Const (' sdfStandard32 ','String ''''dd/mm/yyyy'''')
3251: Const (' sdfOracle ','String ''TO_DATE(''dd/mm/yyyy'', ''DD/MM/YYYY'')')
3252: Const (' sdfInterbase ','String ''CAST(''mm''/''dd''/''yyyy''' AS DATE)'')
3253: Const (' sdfMSSQL ','String ''CONVERT(datetime, ''''mm''/''dd''/''yyyy'''', 103)'')
3254: AddTypeS('Largeint', 'Longint'
3255: addTypeS('TIFEException', '(ErNoImport, erCannotImport, erInvalidType, ErInternalError, '+
  'erInvalidHeader, erInvalidOpcode, erInvalidOpcodeParameter, erNoMainProc, erOutOfGlobalVarsRange, '+
  'erOutOfProcRange, ErOutOfRange, erOutOfStackRange, ErTypeMismatch, erUnexpectedEof, '+
  'erVersionError, ErDivideByZero, ErMathError,erCouldNotCallProc, erOutOfRecordRange, '+
  'erOutOfMemory,erException,erNullPointerException,erNullVariantError,erInterfaceNotSupported,erDerError);
3256: (*-----*)
3261: procedure SIRегистre_JclIniFiles(CL: TPSPascalCompiler);
3262: begin
3263:   Function JIniReadBool( const FileName, Section, Line : string ) : Boolean
3264:   Function JIniReadInteger( const FileName, Section, Line : string ) : Integer
3265:   Function JIniReadString( const FileName, Section, Line : string ) : string
3266:   Procedure JIniWriteBool( const FileName, Section, Line : string; Value : Boolean)
3267:   Procedure JIniWriteInteger( const FileName, Section, Line : string; Value : Integer)
3268:   Procedure JIniWriteString( const FileName, Section, Line, Value : string)
3269:   Procedure JIniReadStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3270:   Procedure JIniWriteStrings( IniFile : TCustomIniFile; const Section : string; Strings : TStrings)
3271: end;
3272:
3273: (* === compile-time registration functions === *)
3274: (*-----*)
3275: procedure SIRегистre_JclDateTime(CL: TPSPascalCompiler);
3276: begin
3277:   'UnixTimeStart','LongInt'( 25569 );
3278:   Function JEncodeDate( const Year : Integer; Month, Day : Word ) : TDateTime
3279:   Procedure JDecodeDate( Date : TDateTime; var Year, Month, Day : Word );
3280:   Procedure DecodeDate1( Date : TDateTime; var Year : Integer; var Month, Day : Word );
3281:   Procedure DecodeDate2( Date : TDateTime; var Year, Month, Day : Integer );
3282:   Function CenturyOfDate( const DateTime : TDateTime ) : Integer
3283:   Function CenturyBaseYear( const DateTime : TDateTime ) : Integer
3284:   Function DayOfDate( const DateTime : TDateTime ) : Integer
3285:   Function MonthOfDate( const DateTime : TDateTime ) : Integer
3286:   Function YearOfDate( const DateTime : TDateTime ) : Integer
3287:   Function JDayOfTheYear( const DateTime : TDateTime; var Year : Integer ) : Integer;
3288:   Function DayOfTheYear1( const DateTime : TDateTime ) : Integer;
3289:   Function DayOfTheYearToDate( const Year, Day : Integer ) : TDateTime
3290:   Function HourOfTime( const DateTime : TDateTime ) : Integer
3291:   Function MinuteOfTime( const DateTime : TDateTime ) : Integer
3292:   Function SecondOfTime( const DateTime : TDateTime ) : Integer
3293:   Function GetISOYearNumberOfDays( const Year : Word ) : Word
3294:   Function IsISOLongYear( const Year : Word ) : Boolean;
3295:   Function IsISOLongYear1( const DateTime : TDateTime ) : Boolean;
3296:   Function ISODayOfWeek( const DateTime : TDateTime ) : Word
3297:   Function JISOWeekNumber( DateTime : TDateTime; var YearOfWeakNumber, WeekDay : Integer ) : Integer;
3298:   Function ISOWeekNumber1( DateTime : TDateTime; var YearOfWeakNumber : Integer ) : Integer;
3299:   Function ISOWeekNumber2( DateTime : TDateTime ) : Integer;
3300:   Function ISOWeekToDate( const Year, Week, Day : Integer ) : TDateTime
3301:   Function JIsLeapYear( const Year : Integer ) : Boolean;
3302:   Function IsLeapYear1( const DateTime : TDateTime ) : Boolean;
3303:   Function JDaysInMonth( const DateTime : TDateTime ) : Integer
3304:   Function Make4DigitYear( Year, Pivot : Integer ) : Integer
3305:   Function JMakeYear4Digit( Year, WindowsillYear : Integer ) : Integer
3306:   Function JEasterSunday( const Year : Integer ) : TDateTime // TDosDateTime', 'Integer
3307:   Function JFormatDateTime( Form : string; DateTime : TDateTime ) : string
3308:   Function FATDatesEqual( const FileTime1, FileTime2 : Int64 ) : Boolean;
3309:   Function FATDatesEqual1( const FileTime1, FileTime2 : TFileTime ) : Boolean;
3310:   Function HoursToMSecs( Hours : Integer ) : Integer
3311:   Function MinutesToMSecs( Minutes : Integer ) : Integer
3312:   Function SecondsToMSecs( Seconds : Integer ) : Integer
3313:   Function TimeOfDateTimeToSeconds( DateTime : TDateTime ) : Integer
3314:   Function TimeOfDateTimeToMSecs( DateTime : TDateTime ) : Integer

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3315: Function DateTimeToLocalDateTime( DateTime : TDateTime ) : TDateTime
3316: Function LocalDateTimeToDate( DateTime : TDateTime ) : TDateTime
3317: Function DateTimeToDosDate( const DateTime : TDateTime ) : TDosDateTime
3318: Function JDTimeToFileTime( DateTime : TDateTime ) : TFileTime
3319: Function JDTimeToSystemTime( DateTime : TDateTime ) : TSystemTime;
3320: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SysTime : TSystemTime );
3321: Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3322: Function DosDateTimeToDate( const DosTime : TDosDateTime ) : TDateTime
3323: Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3324: Procedure DosDateTimeToFileTime( DTH, DTL : Word; FT : TFileTime );
3325: Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3326: Function DosDateTimeToStr( DateTime : Integer ) : string
3327: Function JFileTimeToDate( const FileTime : TFileTime ) : TDateTime
3328: Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3329: Function JFileTimeToDosDate( const FileTime : TFileTime ) : TDosDateTime;
3330: Procedure FileTimeToDosDateTime( const FileTime : TFileTime; var Date, Time : Word );
3331: Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3332: Procedure FileTimeToSystemTime( const FileTime : TFileTime; var ST : TSystemTime );
3333: Function FileTimeToStr( const FileTime : TFileTime ) : string
3334: Function SystemTimeToDosDate( const SystemTime : TSystemTime ) : TDosDateTime
3335: Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3336: Procedure SystemTimeToFileTime( const SystemTime : TSystemTime; FTime : TFileTime );
3337: Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3338: Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3339: Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3340: Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3341: TJclUnixTime32', 'Longword
3342: Function JDTimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3343: Function JUnixTimeToDate( const UnixTime : TJclUnixTime32 ) : TDateTime
3344: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3345: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3346: Function JNullStamp : TTimeStamp
3347: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3348: Function JEqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3349: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3350: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3351: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3352: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3353: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3354: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3355: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3356: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3357: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3358: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3359: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3360: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3361: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3362: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3363: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3364: FindClass('TOBJECT'), 'EJclDateTimeError
3365: end;
3366:
3367: procedure SIRRegister_JclMiscel2(CL: TPPascalCompiler);
3368: begin
3369:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3370:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3371:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3372:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3373:   Function WinExec32AndRedirectOutput( const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3374:   TJclKillLevel', '( k1Normal, k1NoSignal, k1TimeOut )
3375:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3376:   Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3377:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3378:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3379:   Function RebootOS( KillLevel : TJclKillLevel ) : Boolean
3380:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3381:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3382:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean):Boolean;
3383:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3384:   Function AbortShutDown : Boolean;
3385:   Function AbortShutDown1( const MachineName : string ) : Boolean;
3386:   TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3387:   TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3388:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3389:   FindClass('TOBJECT'), 'EJclCreateProcessError
3390:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3391:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const
      Environment:PChar);
3392:   // with Add(EJclCreateProcessError) do
3393: end;
3394:
3395:
3396: procedure SIRRegister_JclAnsiStrings(CL: TPPascalCompiler);
3397: begin
3398:   // 'AnsiSigns','Set').SetSet(['-', '+']);
3399:   'C1_UPPER','LongWord( $0001);
3400:   'C1_LOWER','LongWord( $0002);
3401:   'C1_DIGIT','LongWord').SetUInt( $0004);
3402:   'C1_SPACE','LongWord').SetUInt( $0008);

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

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

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3578: Function GetQuoteChar( Database : TDatabase ) : string
3579: Procedure ExecuteQuery( const DbName, QueryText : string )
3580: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string )
3581: Function FieldLogicMap( FldType : TFieldType ) : Integer
3582: Function FieldSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer)
3583: Function GetAliasPath( const AliasName : string ) : string
3584: Function IsDirectory( const DatabaseName : string ) : Boolean
3585: Function GetBdeDirectory : string
3586: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3587: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3588: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value, FieldName : string ) : Boolean
3589: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3590: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3591: Function DataSetPositionStr( DataSet : TDataSet ) : string
3592: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean )
3593: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3594: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3595: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3596: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3597: Procedure RestoreIndex( Table : TTable )
3598: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3599: Procedure PackTable( Table : TTable )
3600: Procedure ReindexTable( Table : TTable )
3601: Procedure BdeFlushBuffers
3602: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3603: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string )
3604: Procedure DbNotSupported
3605: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
   AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint )
3606: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
   AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter:Char;MaxRecordCount:Longint );
3607: Procedure ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3608: Procedure InitRSRUN(Database: TDatabase;const ConName:string; ConType:Integer;const ConServer:string );
3609: ****uPSI_JvDateUtil;
3610: function CurrentYear: Word;
3611: function IsLeapYear(AYear: Integer): Boolean;
3612: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3613: function FirstDayOfPrevMonth: TDateTime;
3614: function LastDayOfPrevMonth: TDateTime;
3615: function FirstDayOfNextMonth: TDateTime;
3616: function ExtractDay(ADate: TDateTime): Word;
3617: function ExtractMonth(ADate: TDateTime): Word;
3618: function ExtractYear(ADate: TDateTime): Word;
3619: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3620: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3621: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3622: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3623: function Validate(ADate: TDateTime): Boolean;
3624: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
3625: function MonthsBetween(Date1, Date2: TDateTime): Double;
3626: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
3627: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
3628: function DaysBetween(Date1, Date2: TDateTime): Longint;
3629: { The same as previous but if Date2 < Date1 result = 0 }
3630: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3631: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3632: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3633: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3634: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3635: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3636: { String to date conversions }
3637: function GetDateOrder(const DateFormat: string): TDateOrder;
3638: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3639: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3640: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3641: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3642: function DefDateFormat(FourDigitYear: Boolean): string;
3643: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3644: -----
3645: ***** JvUtils*****
3646: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3647: function GetWordOnPos(const S: string; const P: Integer): string;
3648: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3649: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3650: { SubStr returns substring from string, S, separated with Separator string}
3651: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3652: { SubStrEnd same to previous function but Index numerated from the end of string }
3653: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3654: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3655: function SubWord(P: PChar; var P2: PChar): string;
3656: { NumberByWord returns the text representation of
3657:   the number, N, in normal russian language. Was typed from Monitor magazine }
3658: function NumberByWord(const N: Longint): string;
3659: // function CurrencyByWord(Value: Currency) : string; GetLineByPos returns Line number, there
3660: //the symbol Pos is pointed. Lines separated with #13 symbol }
3661: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3662: { GetXYByPos is same to previous function, but returns X position in line too}
3663: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);

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3664: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3665: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3666: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3667: function ConcatSep(const S, S2, Separator: string): string;
3668: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3669: function ConcatLeftSep(const S, S2, Separator: string): string;
3670: { MinimizeString truns long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3671: function MinimizeString(const S: string; const MaxLen: Integer): string;
3672: { Next 4 function for russian chars transliterating.
3673:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3674: procedure Dos2Win(var S: string);
3675: procedure Win2Dos(var S: string);
3676: function Dos2WinRes(const S: string): string;
3677: function Win2DOSRes(const S: string): string;
3678: function Win2Koi(const S: string): string;
3679: { Spaces returns string consists on N space chars }
3680: function Spaces(const N: Integer): string;
3681: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3682: function AddSpaces(const S: string; const N: Integer): string;
3683: { function LastDate for russian users only } { returns date relative to current date: '' }
3684: function LastDate(const Dat: TDateTime): string;
3685: { CurrencyToStr format currency, Cur, using ffcurrency float format}
3686: function CurrencyToStr(const Cur: currency): string;
3687: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3688: function Cmp(const S1, S2: string): Boolean;
3689: { StringCat add S2 string to S1 and returns this string }
3690: function StringCat(var S1: string; S2: string): string;
3691: { HasChar returns True, if Char, Ch, contains in string, S }
3692: function HasChar(const Ch: Char; const S: string): Boolean;
3693: function HasAnyChar(const Chars: string; const S: string): Boolean;
3694: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3695: function CountOfChar(const Ch: Char; const S: string): Integer;
3696: function DefStr(const S: string; Default: string): string;
3697: {**** files routines}
3698: { GetWinDir returns Windows folder name }
3699: function GetWinDir: TFileName;
3700: function GetSysDir: String;
3701: { GetTempDir returns Windows temporary folder name }
3702: function GetTempDir: string;
3703: { GenTempFileName returns temporary file name on drive, there FileName is placed }
3704: function GenTempFileName(FileName: string): string;
3705: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3706: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3707: { ClearDir clears folder Dir }
3708: function ClearDir(const Dir: string): Boolean;
3709: { DeleteDir clears and than delete folder Dir }
3710: function DeleteDir(const Dir: string): Boolean;
3711: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3712: function FileEquMask(FileName, Mask: TFileName): Boolean;
3713: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3714:   Masks must be separated with comma (';') }
3715: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3716: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3717: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3718: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3719: { FileGetInfo fills SearchRec record for specified file attributes}
3720: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3721: { HasSubFolder returns True, if folder APath contains other folders }
3722: function HasSubFolder(APath: TFileName): Boolean;
3723: { IsEmptyFolder returns True, if there are no files or folders in given folder, APath}
3724: function IsEmptyFolder(APath: TFileName): Boolean;
3725: { AddSlash add slash Char to Dir parameter, if needed }
3726: procedure AddSlash(var Dir: TFileName);
3727: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3728: function AddSlash2(const Dir: TFileName): string;
3729: { AddPath returns FileName with Path, if FileName not contain any path }
3730: function AddPath(const FileName, Path: TFileName): TFileName;
3731: function AddPaths(const PathList, Path: string): string;
3732: function ParentPath(const Path: TFileName): TFileName;
3733: function FindInPath(const FileName, PathList: string): TFileName;
3734: function FindInPaths(const fileName, paths: String): String;
3735: {$IFDEF BCB1}
3736: { BrowseForFolder displays Browse For Folder dialog }
3737: function BrowseForFolder(const Handle: HWnd; const Title: string; var Folder: string): Boolean;
3738: {$ENDIF BCB1}
3739: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3740: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
  AHelpContext : THelpContext) : Boolean
3741: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3742: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean
3743:
3744: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3745: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3746: { HasParam returns True, if program running with specified parameter, Param }
3747: function HasParam(const Param: string): Boolean;
3748: function HasSwitch(const Param: string): Boolean;
3749: function Switch(const Param: string): string;
3750: { ExePath returns ExtractFilePath(ParamStr(0)) }

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3751: function ExePath: TFileName;
3752: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3753: function FileTimeToDateTime(const FT: TFileTime): TDateTime;
3754: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3755: {**** Graphic routines }
3756: { TTFontSelected returns True, if True Type font is selected in specified device context }
3757: function TTFontSelected(const DC: HDC): Boolean;
3758: { True InflateRect inflates rect in other method, than InflateRect API function }
3759: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3760: {**** Windows routines }
3761: { SetWindowTop put window to top without recreating window }
3762: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3763: {**** other routines }
3764: { KeyPressed returns True, if Key VK is now pressed }
3765: function KeyPressed(VK: Integer): Boolean;
3766: procedure SwapInt(var Int1, Int2: Integer);
3767: function IntPower(Base, Exponent: Integer): Integer;
3768: function ChangeTopException(E: TObject): TObject;
3769: function StrToBool(const S: string): Boolean;
3770: {$IFNDEF COMPILER3_UP}
3771: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3772: Length of MaxLen bytes. The compare operation is controlled by the
3773: current Windows locale. The return value is the same as for CompareStr. }
3774: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3775: function AnsiStrICmp(S1, S2: PChar): Integer;
3776: {$ENDIF}
3777: function Var2Type(V: Variant; const VarType: Integer): Variant;
3778: function VarToInt(V: Variant): Integer;
3779: function VarToFloat(V: Variant): Double;
3780: { following functions are not documented because they are don't work properly , so don't use them }
3781: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3782: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3783: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3784: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3785: function GetParameter: string;
3786: function GetLongFileName(FileName: string): string;
3787: {* from FileCtrl1}
3788: function DirectoryExists(const Name: string): Boolean;
3789: procedure ForceDirectories(Dir: string);
3790: {* from FileCtrl1}
3791: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3792: function GetComputerID: string;
3793: function GetComputerName: string;
3794: {**** string routines }
3795: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
3796: same Index.Also see RAUtilsW.ReplaceSokr1 function }
3797: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3798: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3799: in the list, Words, and if founds, replaces this Word with string from another list, Frases, with the
3800: same Index, and then update NewSelStart variable }
3801: function CountOfLines(const S: string): Integer;
3802: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3803: procedure DeleteEmptyLines(Ss: TStrings);
3804: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3805: Note: If strings SQL alrreay contains where-statement, it must be started on begining of any line }
3806: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3807: {**** files routines - }
3808: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3809: Resource can be compressed using MS Compress program}
3810: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3811: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3812: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3813: { Execute executes other program and waiting for it terminating, then return its Exit Code }
3814: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3815: { IniReadSection read section, Section, from ini-file,
3816: IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3817: Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3818: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3819: { LoadTextFile load text file, FileName, into string }
3820: function LoadTextFile(const FileName: TFileName): string;
3821: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3822: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3823: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3824: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3825: {$IFDEF COMPILER3_UP}
3826: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3827: function TargetFileName(const FileName: TFileName): TFileName;
3828: { return filename ShortCut linked to }
3829: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3830: {$ENDIF COMPILER3_UP}
3831: {**** Graphic routines - }
3832: { LoadIconToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3833: procedure LoadIconToImage(ALarge, ASmall: TImageList; const NameRes: string);
3834: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
3835: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3836: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3837: function RATextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;

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3838: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3839: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3840: { Cinema draws some visual effect }
3841: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3842: { Roughed fills rect with special 3D pattern }
3843: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3844: { 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 }
3845: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3846: { TextWidth calculate text width for writing using standard desktop font }
3847: function TextWidth(AStr: string): Integer;
3848: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3849: function DefineCursor(Identifier: PChar): TCursor;
3850: {**** other routines - }
3851: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3852: function FindFormByClass(FormClass: TFormClass): TForm;
3853: function FindFormByClassName(FormClassName: string): TForm;
3854: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
  having Tag property value, equaled to Tag parameter }
3855: function FindByTag(WinControl:TWinControl;ComponentClass:TComponentClass;const Tag:Integer):TComponent;
3856: { ControlAtPos2 equal to TWinControl.ControlAtPos function, but works better }
3857: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3858: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3859: function RBTAG(Parent: TWinControl): Integer;
3860: { AppMinimized returns True, if Application is minimized }
3861: function AppMinimized: Boolean;
3862: { MessageBox is Application.MessageBox with string (not PChar) parameters.
  if Caption parameter = '', it replaced with Application.Title }
3863: function MessageBoxJ(const Msg: string; Caption: string;const Flags: Integer): Integer;
3864: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3865: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; DefButton:TMsgDlgBtn; HelpContext: Integer;Control: TWinControl): Integer;
3866: { Delay stop program execution to MSec msec }
3867: procedure Delay(MSec: Longword);
3868: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3869: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3870: procedure EnableMenuItems(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3871: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3872: function PanelBorder(Panel: TCustomPanel): Integer;
3873: function Pixels(Control: TControl; APixels: Integer): Integer;
3874: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3875: procedure Error(const Msg: string);
3876: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3877: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>'}
3878: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): string;
3879: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): Integer;
3880: function ItemHtPlain(const Text: string): string;
3881: { ClearList - clears list of TObject }
3882: procedure ClearList(List: TList);
3883: procedure MemStreamToClipBoard(MemStream: TMemoryStream; const Format: Word);
3884: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3885: { RTTI support }
3886: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3887: function GetPropStr(Obj: TObject; const PropName: string): string;
3888: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3889: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3890: procedure PrepareIniSection(SS: TStringList);
3891: { following functions are not documented because they are don't work properly, so don't use them }
3892: {$IFDEF COMPILER2}
3893: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3894: {$ENDIF}
3895: begin
3896: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3897: begin
3898: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3899: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3900: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
  Accept:Bool;Sorted:Bool;
3901: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3902: Procedure BoxMoveSelected( List : TWinControl; Items : TStringList)
3903: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3904: Function BoxGetFirstSelection( List : TWinControl ) : Integer
3905: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer ) : Boolean
3906: end;
3907: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3908: begin
3909: Const ('MaxInitStrNum','LongInt')( 9);
3910: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
  : array of AnsiString; MaxSplit : Integer ) : Integer
3911: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
  string; MaxSplit : Integer ) : Integer
3912: Function JvAnsiStrSplitStrings(const InStr:AnsiString;const SplitChar,
  QuoteChar:AnsiChar;OutStrs:TStrings):Integer;
3913: Function JvAnsiStrStrip( S : AnsiString ) : AnsiString

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

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4011: { DelSpace trims leading and trailing spaces from the given string. }
4012: function DelSpace1(const S: string): string;
4013: { DelSpace1 return a string with all non-single white spaces removed. }
4014: function Tab2Space(const S: string; Numb: Byte): string;
4015: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4016: function NPos(const C: string; S: string; N: Integer): Integer;
4017: { NPos searches for a N-th position of substring C in a given string. }
4018: function MakeStr(C: Char; N: Integer): string;
4019: function MS(C: Char; N: Integer): string;
4020: { MakeStr return a string of length N filled with character C. }
4021: function AddChar(C: Char; const S: string; N: Integer): string;
4022: { AddChar return a string left-padded to length N with characters C. }
4023: function AddCharR(C: Char; const S: string; N: Integer): string;
4024: { AddCharR return a string right-padded to length N with characters C. }
4025: function LeftStr(const S: string; N: Integer): string;
4026: { LeftStr return a string right-padded to length N with blanks. }
4027: function RightStr(const S: string; N: Integer): string;
4028: { RightStr return a string left-padded to length N with blanks. }
4029: function CenterStr(const S: string; Len: Integer): string;
4030: { CenterStr centers the characters in the string based upon the Len specified. }
4031: function CompStr(const S1, S2: string): Integer;
4032: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2, 0 if S1 = S2, or 1 if S1>S2. }
4033: function CompText(const S1, S2: string): Integer;
4034: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4035: function Copy2Symb(const S: string; Symb: Char): string;
4036: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4037: function Copy2SymbDel(var S: string; Symb: Char): string;
4038: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4039: function Copy2Space(const S: string): string;
4040: { Copy2Symb returns a substring of a string S from beginning to first white space. }
4041: function Copy2SpaceDel(var S: string): string;
4042: { Copy2SpaceDel returns a substring of a string S from beginning to first white space and removes this substring from S. }
4043: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4044: { Returns string, with the first letter of each word in uppercase, all other letters in lowercase. Words are delimited by WordDelims. }
4045: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4046: { WordCount given a set of word delimiters, returns number of words in S. }
4047: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4048: { Given a set of word delimiters, returns start position of N'th word in S. }
4049: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4050: { ExtractWord given a set of word delimiters, returns start position of N'th word in S. }
4051: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4052: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4053: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word delimiters, return the N'th word in S. }
4054: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4055: { ExtractSubstr given set of word delimiters, returns the substring from S, that started from position Pos. }
4056: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4057: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4058: function QuotedString(const S: string; Quote: Char): string;
4059: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4060: function ExtractQuotedString(const S: string; Quote: Char): string;
4061: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string, and reduces pairs of Quote characters within the quoted string to a single character. }
4062: function FindPart(const HelpWilds, InputStr: string): Integer;
4063: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4064: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4065: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4066: function XorString(const Key, Src: ShortString): ShortString;
4067: function XorEncode(const Key, Source: string): string;
4068: function XorDecode(const Key, Source: string): string;
4069: { ** Command line routines ** }
4070: {$IFNDEF COMPILER4_UP}
4071: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4072: {$ENDIF}
4073: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4074: { ** Numeric string handling routines ** }
4075: function Numb2USA(const S: string): string;
4076: { Numb2USA converts numeric string S to USA-format. }
4077: function Dec2Hex(N: Longint; A: Byte): string;
4078: function D2H(N: Longint; A: Byte): string;
4079: { Dec2Hex converts the given value to a hexadecimal string representation with the minimum number of digits (A) specified. }
4080: function Hex2Dec(const S: string): Longint;
4081: function H2D(const S: string): Longint;
4082: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4083: function Dec2Numb(N: Longint; A, B: Byte): string;
4084: { Dec2Numb converts the given value to a string representation with the base equal to B and with the minimum number of digits (A) specified. }
4085: function Numb2Dec(S: string; B: Byte): Longint;
4086: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4087: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4088: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4089: function IntToRoman(Value: Longint): string;
4090: { IntToRoman converts the given value to a roman numeric string representation. }
4091: function RomanToInt(const S: string): Longint;
4092: { RomanToInt converts the given string to an integer value. If the string doesn't contain a valid roman numeric value, the 0 value is returned. }
4093: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);

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4100: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4101: ***** JvFileUtil*****
4102: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4103: procedure CopyFileEx(const FileName, DestName:string;OverwriteReadOnly,ShellDialog:Boolean;ProgressControl: TControl);
4104: procedure MoveFile(const FileName, DestName: TFileName);
4105: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4106: {$IFDEF COMPILER4_UP}
4107: function GetFileSize(const FileName: string): Int64;
4108: {$ELSE}
4109: function GetFileSize(const FileName: string): Longint;
4110: {$ENDIF}
4111: function FileDateTime(const FileName: string): TDateTime;
4112: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4113: function DeleteFiles(const FileMask: string): Boolean;
4114: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4115: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4116: function NormalDir(const DirName: string): string;
4117: function RemoveBackSlash(const DirName: string): string;
4118: function ValidFileName(const FileName: string): Boolean;
4119: function DirExists(Name: string): Boolean;
4120: procedure ForceDirectories(Dir: string);
4121: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4122: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4123: {$IFDEF COMPILER4_UP}
4124: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4125: {$ENDIF}
4126: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4127: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4128: {$IFDEF COMPILER4_UP}
4129: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4130: {$ENDIF}
4131: function GetTempDir: string;
4132: function GetWindowsDir: string;
4133: function GetSystemDir: string;
4134: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4135: {$IFDEF WIN32}
4136: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4137: function ShortToLongFileName(const ShortName: string): string;
4138: function ShortToLongPath(const ShortName: string): string;
4139: function LongToShortFileName(const LongName: string): string;
4140: function LongToShortPath(const LongName: string): string;
4141: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4142: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4143: {$ENDIF WIN32}
4144: {$IFDEF COMPILER3_UP}
4145: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4146: {$ENDIF}
4147: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4148: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4149: Function CreatePopupCalculator( AOwner : TComponent ) : TWinControl;
4150: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4151:
4152: //*****procedure SIRegister_VarHlpr(CL: TPSPascalCompiler);
4153: Procedure VariantClear( var V : Variant);
4154: Procedure VariantArrayRedim( var V : Variant; High : Integer);
4155: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer);
4156: Procedure VariantCpy( const src : Variant; var dst : Variant);
4157: Procedure VariantAdd( const src : Variant; var dst : Variant);
4158: Procedure VariantSub( const src : Variant; var dst : Variant);
4159: Procedure VariantMul( const src : Variant; var dst : Variant);
4160: Procedure VariantDiv( const src : Variant; var dst : Variant);
4161: Procedure VariantMod( const src : Variant; var dst : Variant);
4162: Procedure VariantAnd( const src : Variant; var dst : Variant);
4163: Procedure VariantOr( const src : Variant; var dst : Variant);
4164: Procedure VariantXor( const src : Variant; var dst : Variant);
4165: Procedure VariantShl( const src : Variant; var dst : Variant);
4166: Procedure VariantShr( const src : Variant; var dst : Variant);
4167: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4168: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4169: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4170: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4171: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4172: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4173: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4174: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4175: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4176: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4177: Function VariantNot( const V1 : Variant ) : Variant;
4178: Function VariantNeg( const V1 : Variant ) : Variant;
4179: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
4180: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
4181: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
4182: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
4183: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
4184: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer );
4185: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer );
4186: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer );
4187: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer );

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

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

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

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4451:  var RangeEnd: Integer): Boolean;
4452: // finds a HTML or XML tag: <....>
4453: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4454:  var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4455: // finds the inner text between opening and closing tags
4456: function Easter(NYear: Integer): TDateTime;
4457: // returns the easter date of a year.
4458: function GetWeekNumber(Today: TDateTime): string;
4459: // gets a datecode. Returns year and weeknumber in format: YYWW
4460: function ParseNumber(const S: string): Integer;
4461: // parse number returns the last position, starting from 1
4462: function ParseDate(const S: string): Integer;
4463: // parse a SQL style data string from positions 1,
4464: // starts and ends with #
4465:
4466: *****unit JvJCLUtils;*****
4467:
4468: function VarIsInt(Value: Variant): Boolean;
4469: // VarIsInt returns VarIsOrdinal-[varBoolean]
4470: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4471: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4472: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4473: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4474: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4475: function GetWordOnPos(const S: string; const P: Integer): string;
4476: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4477: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4478: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4479: { GetWordOnPosEx working like GetWordOnPos function, but
4480:   also returns Word position in iBeg, iEnd variables }
4481: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4482: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4483: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4484: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4485: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4486: { GetEndPosCaret returns the caret position of the last char. For the position
4487:   after the last char of Text you must add 1 to the returned X value. }
4488: procedure GetEndPosCaretW(const Text: WideString; CaretX,CaretY:Integer;var X,Y:Integer);
4489: { GetEndPosCaret returns the caret position of the last char. For the position
4490:   after the last char of Text you must add 1 to the returned X value. }
4491: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4492: function SubStrBySeparator(const S:string;const Index:Integer;const
4493: Separator:string;startIndex:Int=1):string;
4493: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
4493: Separator:WideString;startIndex:Int:WideString;
4494: { SubStrEnd same to previous function but Index numerated from the end of string }
4495: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4496: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4497: function SubWord(P: PChar; var P2: PChar): string;
4498: function CurrencyByWord(Value: Currency): string;
4499: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4500: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4501: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4502: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4503: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4504: { ReplaceString searches for all substrings, OldPattern,
4505:   in a string, S, and replaces them with NewPattern }
4506: function ReplaceString(S: string; const OldPattern,NewPattern: string; StartIndex:Integer = 1):string;
4507: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
4507: WideString;startIndex:Integer=1):WideString;
4508: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4509: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4509: SUPPORTS_INLINE}
4510: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4511: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
4511: SUPPORTS_INLINE}
4512:
4513: { Next 4 function for russian chars transliterating.
4514:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4515: procedure Dos2Win(var S: AnsiString);
4516: procedure Win2Dos(var S: AnsiString);
4517: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4518: function Win2DosRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4519: function Win2Koi(const S: AnsiString): AnsiString;
4520: { FillString fills the string Buffer with Count Chars }
4521: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4522: procedure FillString(var Buffer: string; StartIndex, Count: Integer; const Value: Char); overload;
4523: { MoveString copies Count Chars from Source to Dest }
4524: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
4524: inline; {$ENDIF SUPPORTS_INLINE} overload;
4525: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
4526: DstStartIdx: Integer;Count: Integer);{$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4527: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4528: procedure FillWideChar(var Buffer: string; Count: Integer; const Value: WideChar);
4529: { MoveWideChar copies Count WideChars from Source to Dest }
4530: procedure MoveWideChar(const Source: var Dest;Count:Integer);{$IFDEF SUPPORTS_INLINE}inline;{$ENDIF
4530: SUPPORTS_INLINE}
4531: { FillNativeChar fills Buffer with Count NativeChars }
4532: procedure FillNativeChar(var Buffer: string; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF
4532: SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}

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4533: { MoveWideChar copies Count WideChars from Source to Dest }
4534: procedure MoveNativeChar(const Source; var Dest; Count: Integer); // D2009 internal error {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4535: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4536: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4537: { Spaces returns string consists on N space chars }
4538: function Spaces(const N: Integer): string;
4539: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4540: function AddSpaces(const S: string; const N: Integer): string;
4541: function SpacesW(const N: Integer): WideString;
4542: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4543: { function LastDateRUS for russian users only }
4544: { returns date relative to current date: 'äää äïÿ fäçää' }
4545: function LastDateRUS(const Dat: TDateTime): string;
4546: { CurrencyToStr format Currency, Cur, using ffCurrency float format }
4547: function CurrencyToStr(const Cur: Currency): string;
4548: { HasChar returns True, if Char, Ch, contains in string, S }
4549: function HasChar(const Ch: Char; const S: string): Boolean;
4550: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4551: function HasAnyChar(const Chars: string; const S: string): Boolean;
4552: {$IFNDEF COMPILER12_UP}
4553: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4554: {$ENDIF ~COMPILER12_UP}
4555: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4556: function CountOfChar(const Ch: Char; const S: string): Integer;
4557: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4558: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4559: function StrLICompW2(S1, S2: PWideChar; MaxLen: Integer): Integer;
4560: function StrPosW(S, SubStr: PWideChar): PWideChar;
4561: function StrLenW(S: PWideChar): Integer;
4562: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4563: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4564: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4565: TPixelFormat', '(pfDevice, pf1bit, pf4bit, pf8bit, pf24bit)
4566: TMappingMethod', '(mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4567: Function GetBitmapPixelFormat( Bitmap : TBitmap ) : TPixelFormat
4568: Function GetPaletteBitmapFormat( Bitmap : TBitmap ) : TPixelFormat
4569: Procedure SetBitmapPixelFormat( Bitmap : TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod )
4570: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4571: Procedure GrayscaleBitmap( Bitmap : TBitmap )
4572: Function BitmapToMemory( Bitmap : TBitmap; Colors : Integer ) : TStream
4573: Procedure SaveBitmapToFile( const Filename : string; Bitmap : TBitmap; Colors : Integer )
4574: Function ScreenPixelFormat : TPixelFormat
4575: Function ScreenColorCount : Integer
4576: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic )
4577: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean ) : TPoint
4578: // SIRegister_TJvGradient(CL);
4579:
4580: {***** files routines}
4581: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4582: const
4583: {$IFDEF MSWINDOWS}
4584: DefaultCaseSensitivity = False;
4585: {$ENDIF MSWINDOWS}
4586: {$IFDEF UNIX}
4587: DefaultCaseSensitivity = True;
4588: {$ENDIF UNIX}
4589: { GenTempFileName returns temporary file name on
4590:   drive, there FileName is placed }
4591: function GenTempFileName(FileName: string): string;
4592: { GenTempFileNameExt same to previous function, but
4593:   returning filename has given extension, FileExt }
4594: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4595: { ClearDir clears folder Dir }
4596: function ClearDir(const Dir: string): Boolean;
4597: { DeleteDir clears and than delete folder Dir }
4598: function DeleteDir(const Dir: string): Boolean;
4599: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask. }
4600: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4601: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4602:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4603: function FileEquMasks(FileName, Masks: TFileName;
4604:   CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4605: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4606: {$IFDEF MSWINDOWS}
4607: { LZFileExpand expand file, FileSource,
4608:   into FileDest. Given file must be compressed, using MS Compress program }
4609: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4610: {$ENDIF MSWINDOWS}
4611: { FileInfo fills SearchRec record for specified file attributes}
4612: function FileInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4613: { HasSubFolder returns True, if folder APath contains other folders }
4614: function HasSubFolder(APath: TFileName): Boolean;
4615: { IsEmptyFolder returns True, if there are no files or
4616:   folders in given folder, APPath }
4617: function IsEmptyFolder(APath: TFileName): Boolean;

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4618: { AddsSlash returns string with added slash Char to Dir parameter, if needed }
4619: function AddSlash(const Dir: TFileName): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4620: { AddPath returns FileName with Path, if FileName not contain any path }
4621: function AddPath(const FileName, Path: TFileName): TFileName;
4622: function AddPaths(const PathList, Path: string): string;
4623: function ParentPath(const Path: TFileName): TFileName;
4624: function FindInPath(const FileName, PathList: string): TFileName;
4625: { DeleteReadOnlyFile clears R/O file attribute and delete file }
4626: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
4627: { HasParam returns True, if program running with specified parameter, Param }
4628: function HasParam(const Param: string): Boolean;
4629: function HasSwitch(const Param: string): Boolean;
4630: function Switch(const Param: string): string;
4631: { ExePath returns ExtractFilePath(ParamStr(0)) }
4632: function ExePath: TFileName; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4633: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
4634: //function FileTimeToDateTIme(const FT: TFileTime): TDateTime;
4635: procedure FileTimeToDosDateTImeDWord(const FT: TFileTime; out Dft: DWORD);
4636: function MakeValidFileName(const FileName: TFileName; ReplaceBadChar: Char): TFileName;
4637: {**** Graphic routines }
4638: { IsTTFontSelected returns True, if True Type font is selected in specified device context }
4639: function IsTTFontSelected(const DC: HDC): Boolean;
4640: function KeyPressed(VK: Integer): Boolean;
4641: Function isKeypressed: boolean; //true if key on memo2 (shell output) is pressed
4642: { TrueInflateRect inflates rect in other method, than InflateRect API function }
4643: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
4644: {**** Color routines }
4645: procedure RGBToHSV(R, G, B: Integer; var H, S, V: Integer);
4646: function RGBTOBGR(Value: Cardinal): Cardinal;
4647: //function ColorToPrettyName(Value: TColor): string;
4648: //function PrettyNameToColor(const Value: string): TColor;
4649: {**** other routines }
4650: procedure SwapInt(var Int1, Int2: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4651: function IntPower(Base, Exponent: Integer): Integer;
4652: function ChangeTopException(E: TObject): TObject; // Linux version writes error message to ErrOutput
4653: function StrToBool(const S: string): Boolean;
4654: function Var2Type(V: Variant; const DestVarType: Integer): Variant;
4655: function VarToInt(V: Variant): Integer;
4656: function VarToFloat(V: Variant): Double;
4657: { following functions are not documented because they not work properly sometimes, so do not use them }
4658: // (rom) ReplaceStrings1, GetSubStr removed
4659: function GetLongFileName(const FileName: string): string;
4660: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
4661: function GetParameter: string;
4662: function GetComputerID: string;
4663: function GetComputerName: string;
4664: {**** string routines }
4665: { ReplaceAllStrings searches for all substrings, Words,
4666:   in a string, S, and replaces them with Frases with the same Index. }
4667: function ReplaceAllStrings(const S: string; Words, Frases: TStrings): string;
4668: { ReplaceStrings searches the Word in a string, S, on PosBeg position,
4669:   in the list, Words, and if founds, replaces this Word with string from another list,Frases, with the
4670:   same Index, and then update NewSelStart variable }
4670: function ReplaceStrings(const S:string;PosBeg,Len:Int;Words,Frases:TStrings;var NewSelStart:Int):string;
4671: { CountOfLines calculates the lines count in a string, S,
4672:   each line must be separated from another with CrLf sequence }
4673: function CountOfLines(const S: string): Integer;
4674: { DeleteLines deletes all lines from strings which in the words, words.
4675:   The word of will be deleted from strings. }
4676: procedure DeleteOfLines(Ss: TStrings; const Words: array of string);
4677: { DeleteEmptyLines deletes all empty lines from strings, Ss.
4678:   Lines contained only spaces also deletes. }
4679: procedure DeleteEmptyLines(Ss: TStrings);
4680: { SQLAddWhere addes or modifies existing where-statement, where,
4681:   to the strings, SQL. Note: If strings SQL allready contains where-statement,
4682:   it must be started on the begining of any line }
4683: procedure SQLAddWhere(SQL: TStrings; const Where: string);
4684: {**** files routines - }
4685: {$IFDEF MSWINDOWS}
4686: { ResSaveToFile save resource named as Name with Typ type into file FileName.
4687:   Resource can be compressed using MS Compress program}
4688: function ResSaveToFile(const Typ,Name:string; const Compressed: Boolean; const FileName: string): Boolean;
4689: function ResSaveToFileEx(Instance:HINST;Typ,Name:PChar;const Compressed:Boolean;const FileName:string):
4690: Boolean;
4691: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
4692: {$ENDIF MSWINDOWS}
4693: { IniReadSection read section, Section, from ini-file,
4694:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
4695:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
4695: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
4696: { LoadTextFile load text file, FileName, into string }
4697: function LoadTextFile(const FileName: TFileName): string;
4698: procedure SaveTextFile(const FileName: TFileName; const Source: string);
4699: { ReadFolder reads files list from disk folder,Folder,that are equal to mask, Mask,into strings, FileList}
4700: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
4701: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
4702: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4703: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4704: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }

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4705: function RATextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
4706: { RATextCalcHeight calculate needed height for
4707:   correct output, using RATextOut or RATextOutEx functions }
4708: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4709: { Cinema draws some visual effect }
4710: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4711: { Roughed fills rect with special 3D pattern }
4712: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4713: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4714:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4715: { TextWidth calculate text width for writing using standard desktop font }
4716: function TextWidth(const AStr: string): Integer;
4717: { TextHeight calculate text height for writing using standard desktop font }
4718: function TextHeight(const AStr: string): Integer;
4719: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4720: procedure Error(const Msg: string);
4721: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4722:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4723: {example Text parameter: Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4724: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4725:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4726: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4727:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4728: function ItemHtPlain(const Text: string): string;
4729: { ClearList - clears list of TObject }
4730: procedure ClearList(List: TList);
4731: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4732: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
4733: { RTTI support }
4734: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4735: function GetPropStr(Obj: TObject; const PropName: string): string;
4736: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4737: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4738: procedure PrepareIniSection(Ss: TStrings);
4739: { following functions are not documented because they are don't work properly, so don't use them }
4740: // (rom) from JvBandWindows to make it obsolete
4741: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4742: // (rom) from JvBandUtils to make it obsolete
4743: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4744: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4745: function CreateIconFromClipboard: TIcon;
4746: { begin JvIconClipboardUtils } { Icon clipboard routines }
4747: function CF_ICON: Word;
4748: procedure AssignClipboardIcon(Icon: TIcon);
4749: { Real-size icons support routines (32-bit only) }
4750: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4751: function CreateRealSizeIcon(Icon: TIcon): HICON;
4752: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4753: {end JvIconClipboardUtils }
4754: function CreateScreenCompatibleDC: HDC;
4755: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF}
4756: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4757: { begin JvRLE } // (rom) changed API for inclusion in JCL
4758: procedure RleCompressTo(InStream, OutStream: TStream);
4759: procedure RleDecompressTo(InStream, OutStream: TStream);
4760: procedure RleCompress(Stream: TStream);
4761: procedure RleDecompress(Stream: TStream);
4762: { end JvRLE } { begin JvDateUtil }
4763: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4764: function IsLeapYear(AYear: Integer): Boolean;
4765: function DaysInAMonth(const AYear, AMonth: Word): Word;
4766: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4767: function FirstDayOfPrevMonth: TDateTime;
4768: function LastDayOfPrevMonth: TDateTime;
4769: function FirstDayOfNextMonth: TDateTime;
4770: function ExtractDay(ADate: TDateTime): Word;
4771: function ExtractMonth(ADate: TDateTime): Word;
4772: function ExtractYear(ADate: TDateTime): Word;
4773: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4774: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$IFDEF SUPPORTS_INLINE}
4775: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4776: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4777: function ValidateDate(ADate: TDateTime): Boolean;
4778: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4779: function MonthsBetween(Date1, Date2: TDateTime): Double;
4780: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4781: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4782: function DaysBetween(Date1, Date2: TDateTime): Longint;
4783: { The same as previous but if Date2 < Date1 result = 0 }
4784: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4785: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4786: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4787: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4788: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
4789: function CutTime(ATime: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4790: { String to date conversions }
4791: function GetDateOrder(const DateFormat: string): TDateOrder;

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4792: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4793: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4794: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4795: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4796: //function DefDateFormat(AFourDigitYear: Boolean): string;
4797: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4798: function FormatLongDate(Value: TDateTime): string;
4799: { end JvDateUtil }
4800: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4801: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4802: { begin JvStrUtils } { ** Common string handling routines ** }
4803: {$IFDEF UNIX}
4804: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4805: const ToCode, FromCode: AnsiString): Boolean;
4806: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4807: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4808: function OemStrToAnsi(const S: AnsiString): AnsiString;
4809: function AnsiStrToOem(const S: AnsiString): AnsiString;
4810: {$ENDIF UNIX}
4811: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4812: { StrToOem translates a string from the Windows character set into the OEM character set. }
4813: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4814: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4815: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4816: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4817: function ReplaceStr(const S, Srch, Replace: string): string;
4818: { Returns string with every occurrence of Srch string replaced with Replace string. }
4819: function DelSpace(const S: string): string;
4820: { DelSpace return a string with all white spaces removed. }
4821: function DelChars(const S: string; Chr: Char): string;
4822: { DelChars return a string with all Chr characters removed. }
4823: function DelBSpace(const S: string): string;
4824: { DelBSpace trims leading spaces from the given string. }
4825: function DelESpace(const S: string): string;
4826: { DelESpace trims trailing spaces from the given string. }
4827: function DelRSpace(const S: string): string;
4828: { DelRSpace trims leading and trailing spaces from the given string. }
4829: function DelSpace1(const S: string): string;
4830: { DelSpace1 return a string with all non-single white spaces removed. }
4831: function Tab2Space(const S: string; Numb: Byte): string;
4832: { Tab2Space converts any tabulation character in the given string to the
4833: Numb spaces characters. }
4834: function NPos(const C: string; S: string; N: Integer): Integer;
4835: { NPos searches for a N-th position of substring C in a given string. }
4836: function MakeStr(C: Char; N: Integer): string; overload;
4837: {$IFDEF COMPILER12_UP}
4838: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4839: {$ENDIF !COMPILER12_UP}
4840: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4841: { MakeStr return a string of length N filled with character C. }
4842: function AddChar(C: Char; const S: string; N: Integer): string;
4843: { AddChar return a string left-padded to length N with characters C. }
4844: function AddCharR(C: Char; const S: string; N: Integer): string;
4845: { AddCharR return a string right-padded to length N with characters C. }
4846: function LeftStr(const S: string; N: Integer): string;
4847: { LeftStr return a string right-padded to length N with blanks. }
4848: function RightStr(const S: string; N: Integer): string;
4849: { RightStr return a string left-padded to length N with blanks. }
4850: function CenterStr(const S: string; Len: Integer): string;
4851: { CenterStr centers the characters in the string based upon the Len specified. }
4852: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4853: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4854: -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4855: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4856: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4857: function Copy2Symb(const S: string; Symb: Char): string;
4858: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4859: function Copy2SymbDel(var S: string; Symb: Char): string;
4860: { Copy2SymbDel returns a substring of a string S from beginning to first
4861: character Symb and removes this substring from S. }
4862: function Copy2Space(const S: string): string;
4863: { Copy2Space returns a substring of a string S from beginning to first white space. }
4864: function Copy2SpaceDel(var S: string): string;
4865: { Copy2SpaceDel returns a substring of a string S from beginning to first
4866: white space and removes this substring from S. }
4867: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4868: { Returns string, with the first letter of each word in uppercase,
4869: all other letters in lowercase. Words are delimited by WordDelims. }
4870: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4871: { WordCount given a set of word delimiters, returns number of words in S. }
4872: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4873: { Given a set of word delimiters, returns start position of N'th word in S. }
4874: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4875: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4876: function ExtractDelimited(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4877: { ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;
4878: ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4879: delimiters, return the N'th word in S. }
4880: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TSysCharSet): string;

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4881: { ExtractSubstr given a set of word delimiters, returns the substring from S,
4882:   that started from position Pos. }
4883: function IsWordPresent(const W, S: string; const WordDelims: TSysCharSet): Boolean;
4884: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4885: function QuotedString(const S: string; Quote: Char): string;
4886: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4887: function ExtractQuotedString(const S: string; Quote: Char): string;
4888: { ExtractQuotedString removes the Quote characters from the beginning and
4889:   end of a quoted string, and reduces pairs of Quote characters within quoted string to single character.}
4890: function FindPart(const HelpWilds, InputStr: string): Integer;
4891: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4892: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4893: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4894: function XorString(const Key, Src: ShortString): ShortString;
4895: function XorEncode(const Key, Source: string): string;
4896: function XorDecode(const Key, Source: string): string;
4897: { ** Command line routines ** }
4898: function GetCmdLineArg(const Switch: string; ASwitchChars: TSysCharSet): string;
4899: { ** Numeric string handling routines ** }
4900: function Numb2USA(const S: string): string;
4901: { Numb2USA converts numeric string S to USA-format. }
4902: function Dec2Hex(N: Longint; A: Byte): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4903: { Dec2Hex converts the given value to a hexadecimal string representation
4904:   with the minimum number of digits (A) specified. }
4905: function Hex2Dec(const S: string): Longint;
4906: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4907: function Dec2Numb(N: Int64; A, B: Byte): string;
4908: { Dec2Numb converts the given value to a string representation with the
4909:   base equal to B and with the minimum number of digits (A) specified. }
4910: function Numb2Dec(S: string; B: Byte): Int64;
4911: { Numb2Dec converts the given B-based numeric string to the corresponding
4912:   integer value. }
4913: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4914: { IntToBin converts the given value to a binary string representation
4915:   with the minimum number of digits specified. }
4916: function IntToRoman(Value: Longint): string;
4917: { IntToRoman converts the given value to a roman numeric string representation. }
4918: function RomanToInt(const S: string): Longint;
4919: { RomanToInt converts the given string to an integer value. If the string
4920:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4921: function FindNotBlankCharPos(const S: string): Integer;
4922: function FindNotBlankCharPosW(const S: WideString): Integer;
4923: function AnsiChangeCase(const S: string): string;
4924: function WideChangeCase(const S: string): string;
4925: function StartsText(const SubStr, S: string): Boolean;
4926: function EndsText(const SubStr, S: string): Boolean;
4927: function DequotedStr(const S: string; QuoteChar: Char = ''): string;
4928: function AnsiDequotedStr(const S: string; AQuote: Char): string; //follow Delphi 2009's "Ansi" prefix
4929: {end JvStrUtils}
4930: {$IFDEF UNIX}
4931: function GetTempFileName(const Prefix: AnsiString): AnsiString;
4932: {$ENDIF UNIX}
4933: { begin JvFileUtil }
4934: function FileDateTime(const FileName: string): TDateTime;
4935: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4936: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4937: function NormalDir(const DirName: string): string;
4938: function RemoveBackSlash(const DirName: string): string; // only for Windows/DOS Paths
4939: function ValidFileName(const FileName: string): Boolean;
4940: {$IFDEF MSWINDOWS}
4941: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4942: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4943: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer; overload;
4944: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4945: {$ENDIF MSWINDOWS}
4946: function GetWindowsDir: string;
4947: function GetSystemDir: string;
4948: function ShortToLongFileName(const ShortName: string): string;
4949: function LongToShortFileName(const LongName: string): string;
4950: function ShortToLongPath(const ShortName: string): string;
4951: function LongToShortPath(const LongName: string): string;
4952: {$IFDEF MSWINDOWS}
4953: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4954: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4955: {$ENDIF MSWINDOWS}
4956: { end JvFileUtil }
4957: // Works like PtInRect but includes all edges in comparision
4958: function PtInRectInclusive(R: TRect; Pt: TPoint): Boolean;
4959: // Works like PtInRect but excludes all edges from comparison
4960: function PtInRectExclusive(R: TRect; Pt: TPoint): Boolean;
4961: function FourDigitYear: Boolean; {$IFDEF SUPPORTS_DEPRECATED} deprecated; {$ENDIF}
4962: function IsFourDigitYear: Boolean;
4963: { moved from JvVCLUtils }
4964: //Open an object with the shell (url or something like that)
4965: function OpenObject(const Value: string): Boolean; overload;
4966: function OpenObject(Value: PChar): Boolean; overload;
4967: {$IFDEF MSWINDOWS}
4968: //Raise the last Exception
4969: procedure RaiseLastWin32; overload;

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4970: procedure RaiseLastWin32(const Text: string); overload;
4971: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
4972: // significant 32 bits of a file's binary version number. Typically, this includes the major and minor
4973: // version placed together in one 32-bit Integer. I
4974: function GetFileVersion(const AFileName: string): Cardinal;
4975: {$EXTERNALSYM GetFileVersion}
4976: //Get version of Shell.dll
4977: // CD functions on HW
4978: procedure OpenCdDrive;
4979: procedure CloseCdDrive;
4980: // returns True if Drive is accessible
4981: function DiskInDrive(Drive: Char): Boolean;
4982: {$ENDIF MSWINDOWS}
4983: //Same as linux function ;
4984: procedure PError(const Text: string);
4985: // execute a program without waiting
4986: procedure Exec(const FileName, Parameters, Directory: string);
4987: // execute a program and wait for it to finish
4988: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
4989: // returns True if this is the first instance of the program that is running
4990: function FirstInstance(const ATitle: string): Boolean;
4991: // restores a window based on it's classname and Caption. Either can be left empty
4992: // to widen the search
4993: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4994: // manipulate the traybar and start button
4995: procedure HideTraybar;
4996: procedure ShowTraybar;
4997: procedure ShowStartButton(Visible: Boolean = True);
4998: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
4999: procedure MonitorOn;
5000: procedure MonitorOff;
5001: procedure LowPower;
5002: // send a key to the window named AppName
5003: function SendKey(const AppName: string; Key: Char): Boolean;
5004: {$IFDEF MSWINDOWS}
5005: // returns a list of all win currently visible, the Objects property is filled with their window handle
5006: procedure GetVisibleWindows(List: TStrings);
5007: Function GetVisibleWindowsF( List : TStrings):TStrings';
5008: // associates an extension to a specific program
5009: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5010: procedure AddToRecentDocs(const FileName: string);
5011: function GetRecentDocs: TStringList;
5012: {$ENDIF MSWINDOWS}
5013: function CharIsMoney(const Ch: Char): Boolean;
5014: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5015: function IntToExtended(I: Integer): Extended;
5016: { GetChangedText works out the new text given the current cursor pos & the key pressed
5017: It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5018: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5019: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5020: //function StrIsInteger(const S: string): Boolean;
5021: function StrIsFloatMoney(const Ps: string): Boolean;
5022: function StrIsDateTime(const Ps: string): Boolean;
5023: function PreformatDateString(Ps: string): string;
5024: function BooleanToInteger(const B: Boolean): Integer;
5025: function StringToBoolean(const Ps: string): Boolean;
5026: function SafeStrToDate(const Ps: string): TDateTime;
5027: function SafeStrToDate(const Ps: string): TDateTime;
5028: function SafeStrToTime(const Ps: string): TDateTime;
5029: function StrDelete(const psSub, psMain: string): string;
5030: { returns the fractional value of pcValue}
5031: function TimeOnly(pcValue: TDateTime): TTime;
5032: { returns the integral value of pcValue }
5033: function DateOnly(pcValue: TDateTime): TDate;
5034: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5035: const { TDateTime value used to signify Null value}
5036: NullEquivalentDate: TDateTime = 0.0;
5037: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5038: // Replacement for Win32Check to avoid platform specific warnings in D6
5039: function OSCheck(RetVal: Boolean): Boolean;
5040: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5041: Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5042: not be forced to use FileCtrl unnecessarily }
5043: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5044: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5045: { MinimizeString truncates long string, S, and appends ...'symbols,if Length of S is more than MaxLen }
5046: function MinimizeString(const S: string; const MaxLen: Integer): string;
5047: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5048: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
5049: minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
5050: found.}
5049: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5050: {$ENDIF MSWINDOWS}
5051: procedure ResourceNotFound(ResID: PChar);
5052: function EmptyRect: TRect;
5053: function RectWidth(R: TRect): Integer;

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5054: function RectHeight(R: TRect): Integer;
5055: function CompareRect(const R1, R2: TRect): Boolean;
5056: procedure RectNormalize(var R: TRect);
5057: function RectIsSquare(const R: TRect): Boolean;
5058: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5059: //IF AMaxSize = -1 ,then auto calc Square's max size
5060: {$IFDEF MSWINDOWS}
5061: procedure FreeUnusedOLE;
5062: function GetWindowsVersion: string;
5063: function LoadDLL(const LibName: string): THandle;
5064: function RegisterServer(const ModuleName: string): Boolean;
5065: function UnregisterServer(const ModuleName: string): Boolean;
5066: {$ENDIF MSWINDOWS}
5067: { String routines }
5068: function GetEnvVar(const VarName: string): string;
5069: function AnsiUpperFirstChar(const S: string): string; //follow Delphi 2009's example with "Ansi" prefix
5070: function StringToPChar(var S: string): PChar;
5071: function StrPAalloc(const S: string): PChar;
5072: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5073: function DropT(const S: string): string;
5074: { Memory routines }
5075: function AllocMemo(Size: Longint): Pointer;
5076: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5077: procedure FreeMemo(var fpBlock: Pointer);
5078: function GetMemoSize(fpBlock: Pointer): Longint;
5079: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5080: { Manipulate huge pointers routines }
5081: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5082: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5083: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5084: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5085: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5086: function WindowClassName(Wnd: THandle): string;
5087: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5088: procedure ActivateWindow(Wnd: THandle);
5089: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5090: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5091: { SetWindowTop put window to top without recreating window }
5092: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5093: procedure CenterWindow(Wnd: THandle);
5094: function MakeVariant(const Values: array of Variant): Variant;
5095: { Convert dialog units to pixels and backwards }
5096: {$IFDEF MSWINDOWS}
5097: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5098: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5099: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5100: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5101: {$ENDIF MSWINDOWS}
5102: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5103: {$IFDEF BCB}
5104: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5105: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5106: {$ELSE}
5107: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5108: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5109: {$ENDIF BCB}
5110: {$IFDEF MSWINDOWS}
5111: { BrowseForFolderNative displays Browse For Folder dialog }
5112: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5113: {$ENDIF MSWINDOWS}
5114: procedure AntiAlias(Clip: TBitmap);
5115: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5116: procedure CopyRectDIBITS(ACanvas: TCanvas; const DestRect: TRect;
5117: Abitmap: TBitmap; const SourceRect: TRect);
5118: function IsTrueType(const FontName: string): Boolean;
5119: // Removes all non-numeric characters from AValue and returns the resulting string
5120: function TextToValText(const AValue: string): string;
5121: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean;
5122: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings );
5123: Function ReplaceRegExpr( const ARegExpr,AInputStr,
5124: AReplaceStr:RegExprString;AUseSubstitution:bool ):RegExprString;
5125: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString;
5126: Function RegExprSubExpressions( const ARegExpr:string; ASubExprs:TStrings; AExtendedSyntax : boolean ) :
5127: *****unit uPSI_JvTFUtils;
5128: Function JExtractYear( ADate : TDateTime ) : Word;
5129: Function JExtractMonth( ADate : TDateTime ) : Word;
5130: Function JExtractDay( ADate : TDateTime ) : Word;
5131: Function ExtractHours( ATime : TDateTime ) : Word;
5132: Function ExtractMins( ATime : TDateTime ) : Word;
5133: Function ExtractSecs( ATime : TDateTime ) : Word;
5134: Function ExtractMSecs( ATime : TDateTime ) : Word;
5135: Function FirstOfMonth( ADate : TDateTime ) : TDateTime;
5136: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word;
5137: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word;
5138: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer );
5139: Procedure IncDOW( var DOW : TTFDayOfWeek; N : Integer );
5140: Procedure IncDays( var ADate : TDateTime; N : Integer );
5141: Procedure IncWeeks( var ADate : TDateTime; N : Integer );

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5142: Procedure IncMonths( var ADate : TDateTime; N : Integer)
5143: Procedure IncYears( var ADate : TDateTime; N : Integer)
5144: Function EndOfMonth( ADate : TDateTime) : TDateTime
5145: Function IsFirstOfMonth( ADate : TDateTime) : Boolean
5146: Function IsEndOfMonth( ADate : TDateTime) : Boolean
5147: Procedure EnsureMonth( Month : Word)
5148: Procedure EnsureDOW( DOW : Word)
5149: Function EqualDates( D1, D2 : TDateTime) : Boolean
5150: Function Lesser( N1, N2 : Integer) : Integer
5151: Function Greater( N1, N2 : Integer) : Integer
5152: Function GetDivLength( TotalLength, DivCount, DivNum : Integer) : Integer
5153: Function GetDivNum( TotalLength, DivCount, X : Integer) : Integer
5154: Function GetDivStart( TotalLength, DivCount, DivNum : Integer) : Integer
5155: Function DOWToBorl( ADOW : TTFDayOfWeek) : Integer
5156: Function BorlToDoW( BorlDOW : Integer) : TTFDayOfWeek
5157: Function DateToDoW( ADate : TDateTime) : TTFDayOfWeek
5158: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
  AFont:TFont; AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5159: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
  HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5160: Function JRectWidth( ARect : TRect) : Integer
5161: Function JRectHeight( ARect : TRect) : Integer
5162: Function JEmptyRect : TRect
5163: Function IsClassByName( Obj : TObject; ClassName : string) : Boolean
5164:
5165: procedure SIRegister_MSysUtils(CL: TPPSPascalCompiler);
5166: begin
5167:   Procedure HideTaskBarButton( hWindow : HWND)
5168:   Function msLoadStr( ID : Integer) : String
5169:   Function msFormat( fmt : String; params : array of const) : String
5170:   Function msFileExists( const FileName : String) : Boolean
5171:   Function msIntToStr( Int : Int64) : String
5172:   Function msStrPas( const Str : PChar) : String
5173:   Function msRenameFile( const OldName, NewName : String) : Boolean
5174:   Function CutFileName( s : String) : String
5175:   Function GetVersionInfo( var VersionString : String) : DWORD
5176:   Function FormatTime( t : Cardinal) : String
5177:   Function msCreateDir( const Dir : string) : Boolean
5178:   Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5179:   Function SetTreeViewStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5180:   Function msStrLen( Str : PChar) : Integer
5181:   Function msDirectoryExists( const Directory : String) : Boolean
5182:   Function GetFolder( hWnd : HWnd; RootDir : Integer; Caption : String) : String
5183:   Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5184:   Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5185:   Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5186:   Function GetTextFromFile( Filename : String) : string
5187:   Function IsTopMost( hWnd : HWND) : Bool // 'LWA_ALPHA', 'LongWord').SetUIInt( $00000002);
5188:   Function msStrToIntDef( const s : String; const i : Integer) : Integer
5189:   Function msStrToInt( s : String) : Integer
5190:   Function GetItemText( hDlg : THandle; ID : DWORD) : String
5191: end;
5192:
5193: procedure SIRegister_ESBMaths2(CL: TPPSPascalCompiler);
5194: begin
5195:   //TDynFloatArray', 'array of Extended
5196:   TDynWordArray', 'array of LongWord
5197:   TDynIntArray', 'array of LongInt
5198:   TDynFloatMatrix', 'array of TDynFloatArray
5199:   TDynWordMatrix', 'array of TDynWordArray
5200:   TDynIntMatrix', 'array of TDynIntArray
5201:   Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5202:   Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5203:   Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5204:   Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5205:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5206:   Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5207:   Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5208:   Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5209:   Function DotProduct( const X, Y : TDynFloatArray) : Extended
5210:   Function MNorm( const X : TDynFloatArray) : Extended
5211:   Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5212:   Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean);
5213:   Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5214:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5215:   Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5216:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5217:   Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5218:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5219:   Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5220:   Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5221:   Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5222:   Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5223:   Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5224: end;
5225:
5226: procedure SIRegister_ESBMaths(CL: TPPSPascalCompiler);
5227: begin
5228:   'ESBMinSingle','Single').setExtended( 1.5e-45);

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5229: 'ESBMaxSingle','Single').setExtended( 3.4e+38);
5230: 'ESBMinDouble','Double').setExtended( 5.0e-324);
5231: 'ESBMaxDouble','Double').setExtended( 1.7e+308);
5232: 'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5233: 'ESBMaxExtended','Extended').setExtended( 1.1e+4932);
5234: 'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807);
5235: 'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807);
5236: 'ESBSqrt2','Extended').setExtended( 1.4142135623730950488);
5237: 'ESBSqrt3','Extended').setExtended( 1.7320508075688772935);
5238: 'ESBSqrt5','Extended').setExtended( 2.2360679774997896964);
5239: 'ESBSqrt10','Extended').setExtended( 3.1622776601683793320);
5240: 'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729);
5241: 'ESBCbrt2','Extended').setExtended( 1.2599210498948731648);
5242: 'ESBCbrt3','Extended').setExtended( 1.4422495703074083823);
5243: 'ESBCbrt10','Extended').setExtended( 2.1544346900318837219);
5244: 'ESBCbrt100','Extended').setExtended( 4.6415888336127788924);
5245: 'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630);
5246: 'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440);
5247: 'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451);
5248: 'ESBInvSqrt5','Extended').setExtended( 0.4472135954999793928);
5249: 'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695);
5250: 'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147);
5251: 'ESBe','Extended').setExtended( 2.7182818284590452354);
5252: 'ESBe2','Extended').setExtended( 7.3890560989306502272);
5253: 'ESBePi','Extended').setExtended( 23.140692632779269006);
5254: 'ESBePiOn2','Extended').setExtended( 4.810477380965316555);
5255: 'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5256: 'ESBLn2','Extended').setExtended( 0.69314718055994530942);
5257: 'ESBLn10','Extended').setExtended( 2.30258509299404568402);
5258: 'ESBLnPi','Extended').setExtended( 1.14472988584940017414);
5259: 'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478);
5260: 'ESBLog2Base10','Extended').setExtended( 0.30102999566398119521);
5261: 'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730);
5262: 'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339);
5263: 'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765);
5264: 'ESBPi','Extended').setExtended( 3.1415926535897932385);
5265: 'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1);
5266: 'ESBTwoPi','Extended').setExtended( 6.2831853071795864769);
5267: 'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5268: 'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5269: 'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5270: 'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5271: 'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5272: 'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5273: 'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5274: 'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5275: 'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0);
5276: 'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5277: 'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5278: 'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5279: 'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5280: 'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5281: 'ESBLnRt2Pi','Extended').setExtended( 9.189385332046727E-1);
5282: //LongWord', 'Cardinal
5283: TBitList', 'Word
5284: Function UMul( const Num1, Num2 : LongWord) : LongWord
5285: Function UMulDiv2p32( const Num1, Num2 : LongWord) : LongWord
5286: Function UMulDiv( const Num1, Num2, Divisor : LongWord) : LongWord
5287: Function UMulMod( const Num1, Num2, Modulus : LongWord) : LongWord
5288: Function SameFloat( const X1, X2 : Extended) : Boolean
5289: Function FloatIsZero( const X : Extended) : Boolean
5290: Function FloatIsPositive( const X : Extended) : Boolean
5291: Function FloatIsNegative( const X : Extended) : Boolean
5292: Procedure IncLim( var B : Byte; const Limit : Byte)
5293: Procedure IncLimSI( var B : ShortInt; const Limit : ShortInt)
5294: Procedure IncLimW( var B : Word; const Limit : Word)
5295: Procedure IncLimI( var B : Integer; const Limit : Integer)
5296: Procedure IncLimL( var B : LongInt; const Limit : LongInt)
5297: Procedure DecLim( var B : Byte; const Limit : Byte)
5298: Procedure DecLimSI( var B : ShortInt; const Limit : ShortInt)
5299: Procedure DecLimW( var B : Word; const Limit : Word)
5300: Procedure DecLimI( var B : Integer; const Limit : Integer)
5301: Procedure DecLimL( var B : LongInt; const Limit : LongInt)
5302: Function MaxB( const B1, B2 : Byte) : Byte
5303: Function MinB( const B1, B2 : Byte) : Byte
5304: Function MaxSI( const B1, B2 : ShortInt) : ShortInt
5305: Function MinSI( const B1, B2 : ShortInt) : ShortInt
5306: Function MaxW( const B1, B2 : Word) : Word
5307: Function MinW( const B1, B2 : Word) : Word
5308: Function esbMaxI( const B1, B2 : Integer) : Integer
5309: Function esbMinI( const B1, B2 : Integer) : Integer
5310: Function MaxL( const B1, B2 : LongInt) : LongInt
5311: Function MinL( const B1, B2 : LongInt) : LongInt
5312: Procedure SwapB( var B1, B2 : Byte)
5313: Procedure SwapSI( var B1, B2 : ShortInt)
5314: Procedure SwapW( var B1, B2 : Word)
5315: Procedure SwapI( var B1, B2 : SmallInt)
5316: Procedure SwapL( var B1, B2 : LongInt)
5317: Procedure SwapI32( var B1, B2 : Integer)

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5318: Procedure SwapC( var B1, B2 : LongWord)
5319: Procedure SwapInt64( var X, Y : Int64)
5320: Function esbSign( const B : LongInt) : ShortInt
5321: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5322: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5323: Function Max3Word( const X1, X2, X3 : Word) : Word
5324: Function Min3Word( const X1, X2, X3 : Word) : Word
5325: Function MaxBArray( const B : array of Byte) : Byte
5326: Function MaxWArray( const B : array of Word) : Word
5327: Function MaxSIArray( const B : array of ShortInt) : ShortInt
5328: Function MaxIArray( const B : array of Integer) : Integer
5329: Function MaxLArray( const B : array of LongInt) : LongInt
5330: Function MinBArray( const B : array of Byte) : Byte
5331: Function MinWArray( const B : array of Word) : Word
5332: Function MinSIArray( const B : array of ShortInt) : ShortInt
5333: Function MinIArray( const B : array of Integer) : Integer
5334: Function MinLArray( const B : array of LongInt) : LongInt
5335: Function SumBArray( const B : array of Byte) : Byte
5336: Function SumBArray2( const B : array of Byte) : Word
5337: Function SumSIArray( const B : array of ShortInt) : ShortInt
5338: Function SumSIArray2( const B : array of ShortInt) : Integer
5339: Function SumWArray( const B : array of Word) : Word
5340: Function SumWArray2( const B : array of Word) : LongInt
5341: Function SumIArray( const B : array of Integer) : Integer
5342: Function SumLArray( const B : array of LongInt) : LongInt
5343: Function SumLWArray( const B : array of LongWord) : LongWord
5344: Function ESBDigits( const X : LongWord) : Byte
5345: Function BitsHighest( const X : LongWord) : Integer
5346: Function ESBbitsNeeded( const X : LongWord) : Integer
5347: Function esbGCD( const X, Y : LongWord) : LongWord
5348: Function esbLCM( const X, Y : LongInt) : Int64
5349: //Function esbLCM( const X, Y : LongInt) : LongInt
5350: Function RelativePrime( const X, Y : LongWord) : Boolean
5351: Function Get87ControlWord : TBitList
5352: Procedure Set87ControlWord( const CWord : TBitList)
5353: Procedure SwapExt( var X, Y : Extended)
5354: Procedure SwapDbl( var X, Y : Double)
5355: Procedure SwapSing( var X, Y : Single)
5356: Function esbSgn( const X : Extended) : ShortInt
5357: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5358: Function ExtMod( const X, Y : Extended) : Extended
5359: Function ExtRem( const X, Y : Extended) : Extended
5360: Function CompMOD( const X, Y : Comp) : Comp
5361: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5362: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5363: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5364: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5365: Function MaxExt( const X, Y : Extended) : Extended
5366: Function MinExt( const X, Y : Extended) : Extended
5367: Function MaxEArray( const B : array of Extended) : Extended
5368: Function MinEArray( const B : array of Extended) : Extended
5369: Function MaxSArray( const B : array of Single) : Single
5370: Function MinSArray( const B : array of Single) : Single
5371: Function MaxCArray( const B : array of Comp) : Comp
5372: Function MinCArray( const B : array of Comp) : Comp
5373: Function SumSArray( const B : array of Single) : Single
5374: Function SumEArray( const B : array of Extended) : Extended
5375: Function SumSqEArray( const B : array of Extended) : Extended
5376: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5377: Function SumXEAarray( const X, Y : array of Extended) : Extended
5378: Function SumCArray( const B : array of Comp) : Comp
5379: Function FactorialX( A : LongWord) : Extended
5380: Function PermutationX( N, R : LongWord) : Extended
5381: Function esbBinomialCoeff( N, R : LongWord) : Extended
5382: Function IsPositiveEArray( const X : array of Extended) : Boolean
5383: Function esbGeometricMean( const X : array of Extended) : Extended
5384: Function esbHarmonicMean( const X : array of Extended) : Extended
5385: Function ESBMean( const X : array of Extended) : Extended
5386: Function esbSampleVariance( const X : array of Extended) : Extended
5387: Function esbPopulationVariance( const X : array of Extended) : Extended
5388: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5389: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5390: Function GetMedian( const SortedX : array of Extended) : Extended
5391: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5392: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5393: Function ESBMagnitude( const X : Extended) : Integer
5394: Function ESBTan( Angle : Extended) : Extended
5395: Function ESBCot( Angle : Extended) : Extended
5396: Function ESBCossec( const Angle : Extended) : Extended
5397: Function ESBSec( const Angle : Extended) : Extended
5398: Function ESBArctan( X, Y : Extended) : Extended
5399: Procedure ESBSinCos( Angle : Extended; var SinX, CosX : Extended)
5400: Function ESBArcCos( const X : Extended) : Extended
5401: Function ESBArcSin( const X : Extended) : Extended
5402: Function ESBArcSec( const X : Extended) : Extended
5403: Function ESBArccosec( const X : Extended) : Extended
5404: Function ESBLog10( const X : Extended) : Extended
5405: Function ESBLog2( const X : Extended) : Extended
5406: Function ESBLogBase( const X, Base : Extended) : Extended

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5407: Function Pow2( const X : Extended ) : Extended
5408: Function IntPow( const Base : Extended; const Exponent : LongWord ) : Extended
5409: Function ESBIntPower( const X : Extended; const N : LongInt ) : Extended
5410: Function XtoY( const X, Y : Extended ) : Extended
5411: Function esbTenToY( const Y : Extended ) : Extended
5412: Function esbTwoToY( const Y : Extended ) : Extended
5413: Function LogXtoBaseY( const X, Y : Extended ) : Extended
5414: Function esbISqrt( const I : LongWord ) : Longword
5415: Function ILog2( const N : LongWord ) : LongWord
5416: Function IGreatestPowerOf2( const N : LongWord ) : LongWord
5417: Function ESBArCosh( X : Extended ) : Extended
5418: Function ESBArSinh( X : Extended ) : Extended
5419: Function ESBArTanh( X : Extended ) : Extended
5420: Function ESBCCosh( X : Extended ) : Extended
5421: Function ESBSSinh( X : Extended ) : Extended
5422: Function ESBCTanh( X : Extended ) : Extended
5423: Function InverseGamma( const X : Extended ) : Extended
5424: Function esbGamma( const X : Extended ) : Extended
5425: Function esbLnGamma( const X : Extended ) : Extended
5426: Function esbBeta( const X, Y : Extended ) : Extended
5427: Function IncompleteBeta( X : Extended; P, Q : Extended ) : Extended
5428: end;
5429:
5430: ***** Integer Huge Cardinal Utils*****
5431: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean ) : uint64
5432: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean ) : uint32
5433: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean ) : uint64
5434: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean ) : uint32
5435: Function BitCount_8( Value : byte ) : integer
5436: Function BitCount_16( Value : uint16 ) : integer
5437: Function BitCount_32( Value : uint32 ) : integer
5438: Function BitCount_64( Value : uint64 ) : integer
5439: Function CountSetBits_64( Value : uint64 ) : integer TPrimalityTestNoticeProc',
5440: Procedure ( CountPrimalityTests : integer )
5441: Function gcd( a, b : THugeCardinal ) : THugeCardinal
5442: Function lcm( a, b : THugeCardinal ) : THugeCardinal
5443: Function isCoPrime( a, b : THugeCardinal ) : boolean
5444: Function isProbablyPrime(p: THugeCardinal;OnProgress: TProgress; var wasAborted: boolean): boolean
5445: Function hasSmallFactor( p : THugeCardinal ) : boolean
5446: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
      TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool;var Prime: THugeCardinal; var
      NumbersTested: integer ) : boolean
5447: Function Inverse( Prime, Modulus : THugeCardinal ) : THugeCardinal
5448: Const('StandardExponent','LongInt'( 65537 );
5449: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
      Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
      Numbers
5450: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal ) : boolean')
5451:
5452: procedure SIRegister_xrtl_math_Integer(CL: TPSPPascalCompiler);
5453: begin
5454:   AddTypeS('TXRTLInteger', 'array of Integer
5455:   AddClassN(FindClass('TOBJECT'),'EXRTLMathException
5456:   (FindClass('TOBJECT'),'EXRTLExtendInvalidArgument
5457:   AddClassN(FindClass('TOBJECT'),'EXRTLDivisionByZero
5458:   AddClassN(FindClass('TOBJECT'),'EXRTLExpInvalidArgument
5459:   AddClassN(FindClass('TOBJECT'),'EXRTLInvalidRadix
5460:   AddClassN(FindClass('TOBJECT'),'EXRTLInvalidRadixDigit
5461:   AddClassN(FindClass('TOBJECT'),'EXRTLRootInvalidArgument
5462:   'BitsPerByte','LongInt'( 8 );
5463:   BitsPerDigit','LongInt'( 32 );
5464:   SignBitMask','LongWord( $80000000 );
5465:   Function XRTLAdjustBits( const ABits : Integer ) : Integer
5466:   Function XRTLlength( const AInteger : TXRTLInteger ) : Integer
5467:   Function XRTLDatabits( const AInteger : TXRTLInteger ) : Integer
5468:   Procedure XRTLBitPosition( const BitIndex : Integer; var Index, Mask : Integer )
5469:   Procedure XRTLBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer )
5470:   Procedure XRTLBiteReset( var AInteger : TXRTLInteger; const BitIndex : Integer )
5471:   Function XRTLBiteGet( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Integer
5472:   Function XRTLBiteGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Boolean
5473:   Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int;var AResult:TXRTLInteger):Int;
5474:   Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5475:   Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5476:   Function XRTLStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5477:   Procedure XRTLNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5478:   Procedure XRTLOr( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5479:   Procedure XRTLand( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5480:   Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5481:   Function XRTLSign( const AInteger : TXRTLInteger ) : Integer
5482:   Procedure XRTLZero( var AInteger : TXRTLInteger )
5483:   Procedure XRTLOne( var AInteger : TXRTLInteger )
5484:   Procedure XRTLMOne( var AInteger : TXRTLInteger )
5485:   Procedure XRTLTTwo( var AInteger : TXRTLInteger )
5486:   Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5487:   Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5488:   Procedure XRTLFULLSum( const A, B, C : Integer; var Sum, Carry : Integer )
5489:   Function XRTLAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5490:   Function XRTLAddl(const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5491:   Function XRTLSub( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;

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5492: Function XRTLSub1( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5493: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger ) : Integer;
5494: Function XRTLCompare1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64 ) : Integer;
5495: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5496: Function XRTLMulAdd(const AInteger1,AInteger2,AInteger3:TXRTLInteger; var AResult:TXRTLInteger):Integer;
5497: Function XRTLMul( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5498: Procedure XRTLDivMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger );
5499: Procedure XRTLSqr( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5500: Procedure XRTLSqr1( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5501: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5502: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger)
5503: Procedure XRTLURootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
      AHighApproxResult:TXRTLInteger);
5504: Procedure XRTLExp( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5505: Procedure XRTLExpMod( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult : TXRTLInteger )
5506: Procedure XRTLSLBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5507: Procedure XRTLSABL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5508: Procedure XRTLRCBL(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5509: Procedure XRTLSDL(const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger)
5510: Procedure XRTLSADL(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5511: Procedure XRTLRCDL(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5512: Procedure XRTLSSLBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5513: Procedure XRTLSABR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5514: Procedure XRTLRCBR(const AInteger: TXRTLInteger; const BitCount:Integer; var AResult: TXRTLInteger)
5515: Procedure XRTLSSLDR(const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult: TXRTLInteger)
5516: Procedure XRTLSADR(const AInteger: TXRTLInteger; const DigitCount:Integer;var AResult: TXRTLInteger)
5517: Procedure XRTLRCDR(const AInteger: TXRTLInteger;const DigitCount:Integer;var AResult: TXRTLInteger)
5518: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer ) : string
5519: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer ) : string
5520: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer ) : string
5521: Procedure XRTLFromHex( const Value : string; var AResult : TXRTLInteger )
5522: Procedure XRTLFromBin( const Value : string; var AResult : TXRTLInteger )
5523: Procedure XRTLFromString( const Value : string; var AResult : TXRTLInteger; Radix : Integer )
5524: Procedure XRTLAssign( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5525: Procedure XRTLAssign1( const Value : Integer; var AResult : TXRTLInteger );
5526: Procedure XRTLAssign2( const Value : Int64; var AResult : TXRTLInteger );
5527: Procedure XRTLAppend( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger )
5528: Procedure XRTLSplit(const AInteger: TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer)
5529: Function XRTLGetMSBIndex( const AInteger : TXRTLInteger ) : Integer
5530: Procedure XRTLMinMax(const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult: TXRTLInteger)
5531: Procedure XRTLMin( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5532: Procedure XRTLMin1(const AInteger1: TXRTLInteger;const AInteger2:Integer;var AResult : TXRTLInteger );
5533: Procedure XRTLMax( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5534: Procedure XRTLMax1(const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger );
5535: Procedure XRTLGCD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5536: Procedure XRTLSwap( var AInteger1, AInteger2 : TXRTLInteger )
5537: Procedure XRTLFactorial( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5538: Procedure XRTLFactorialMod( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5539: end;
5540:
5541: procedure SIRegister_JvXPCoreUtils(CL: TPSPascalCompiler);
5542: begin
5543:   Function JvXPMETHODSEqual( const Method1, Method2 : TMethod ) : Boolean
5544:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer )
5545:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap );
5546:   Procedure JvXPAdjustBoundRect(const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect )
5547:   Procedure JvXPDrawBoundLines(const ACanvas:TCanvas;const BoundLns:TJvXPBoundLns;const
      AColor:TColor;Rect:TRect;
5548:   Procedure JvXPConvertToGray2( Bitmap : TBitmap )
5549:   Procedure JvXPRenderText( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer )
5550:   Procedure JvXPFrame3D(const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool;
5551:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor )
5552:   Procedure JvXPSetDrawFlags(const AAlignment:TAlignment;const AWordWrap: Boolean; var Flags : Integer )
5553:   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 )
5554: end;
5555:
5556:
5557: procedure SIRegister_uwinstr(CL: TPSPascalCompiler);
5558: begin
5559:   Function StrDec( S : String ) : String
5560:   Function uISNumeric( var S : String; var X : Float ) : Boolean
5561:   Function ReadNumFromEdit( Edit : TEdit ) : Float
5562:   Procedure WriteNumToFile( var F : Text; X : Float )
5563: end;
5564:
5565: procedure SIRegister_utexploit(CL: TPSPascalCompiler);
5566: begin
5567:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean ) : Boolean
5568:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
5569:   Procedure TeX_LeaveGraphics( Footer : Boolean )
5570:   Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
5571:   Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )

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5572: Procedure TeX_SetGraphTitle( Title : String)
5573: Procedure TeX_SetOxTitle( Title : String)
5574: Procedure TeX_SetOyTitle( Title : String)
5575: Procedure TeX_PlotOxAxis
5576: Procedure TeX_PlotOyAxis
5577: Procedure TeX_PlotGrid( Grid : TGrid)
5578: Procedure TeX_WriteGraphTitle
5579: Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5580: Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5581: Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5582: Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5583: Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5584: Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5585: Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5586: Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5587: Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5588: Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5589: Function Xcm( X : Float) : Float
5590: Function Ycm( Y : Float) : Float
5591: end;
5592:
5593: *-----*)
5594: procedure SIRegister_VarRecUtils(CL: TPSPPascalCompiler);
5595: begin
5596:   TConstArray', 'array of TVarRec
5597:   Function CopyVarRec( const Item : TVarRec) : TVarRec
5598:   Function CreateConstArray( const Elements : array of const) : TConstArray
5599:   Procedure FinalizeVarRec( var Item : TVarRec)
5600:   Procedure FinalizeConstArray( var Arr : TConstArray)
5601: end;
5602:
5603: procedure SIRegister_StStrS(CL: TPSPPascalCompiler);
5604: begin
5605:   Function HexBS( B : Byte) : ShortString
5606:   Function HexWS( W : Word) : ShortString
5607:   Function HexLS( L : LongInt) : ShortString
5608:   Function HexPtrS( P : Pointer) : ShortString
5609:   Function BinaryBS( B : Byte) : ShortString
5610:   Function BinaryWS( W : Word) : ShortString
5611:   Function BinaryLS( L : LongInt) : ShortString
5612:   Function OctalBS( B : Byte) : ShortString
5613:   Function OctalWS( W : Word) : ShortString
5614:   Function OctalLS( L : LongInt) : ShortString
5615:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5616:   Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5617:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5618:   Function Str2RealS( const S : ShortString; var R : Double) : Boolean
5619:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5620:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5621:   Function Long2StrS( L : LongInt) : ShortString
5622:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5623:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5624:   Function ValPrepS( const S : ShortString) : ShortString
5625:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5626:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5627:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5628:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5629:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5630:   Function TrimLeadS( const S : ShortString) : ShortString
5631:   Function TrimTrails( const S : ShortString) : ShortString
5632:   Function TrimS( const S : ShortString) : ShortString
5633:   Function TrimSpacesS( const S : ShortString) : ShortString
5634:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5635:   Function CentersS( const S : ShortString; Len : Cardinal) : ShortString
5636:   Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5637:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5638:   Function ScrambleS( const S, Key : ShortString) : ShortString
5639:   Function SubstituteS( const S, FromStr,ToStr : ShortString) : ShortString
5640:   Function Filters( const S, Filters : ShortString) : ShortString
5641:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5642:   Function CharCountS( const S : ShortString; C : AnsiChar) : Byte
5643:   Function WordCountsS( const S, WordDelims : ShortString) : Cardinal
5644:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5645:   Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5646:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5647:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5648:   Function ExtractAsciiS(N:Cardinal:const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5649:   Procedure WordWrapS(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5650:   Function CompStringS( const S1, S2 : ShortString) : Integer
5651:   Function CompUCStringS( const S1, S2 : ShortString) : Integer
5652:   Function SoundexS( const S : ShortString) : ShortString
5653:   Function MakeLetterSetS( const S : ShortString) : Longint
5654:   Procedure BMMakeTableS( const MatchString : ShortString; var BT : BTable)
5655:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;
5656:   Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
Pos:Cardinal):Bool;
5657:   Function DefaultExtensions( const Name, Ext : ShortString) : ShortString

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5658: Function ForceExtensionS( const Name, Ext : ShortString ) : ShortString
5659: Function JustFilenameS( const PathName : ShortString ) : ShortString
5660: Function JustNameS( const PathName : ShortString ) : ShortString
5661: Function JustExtensionS( const Name : ShortString ) : ShortString
5662: Function JustPathnameS( const PathName : ShortString ) : ShortString
5663: Function AddBackSlashS( const DirName : ShortString ) : ShortString
5664: Function CleanPathNameS( const PathName : ShortString ) : ShortString
5665: Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal ) : Boolean
5666: Function CommaizeS( L : LongInt ) : ShortString
5667: Function CommaizeChS( L : LongInt; Ch : AnsiChar ) : ShortString
5668: Function FloatFormS( const Mask:ShortString;R:TstFloat;const LtCurr:SString;Sep,
DecPt:Char):ShortString;
5669: Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5670: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal ) : Boolean
5671: Function StrStPosS( const P, S : ShortString; var Pos : Cardinal ) : Boolean
5672: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5673: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal ) : ShortString
5674: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal ) : ShortString
5675: Function StrChDeleteS( const S : ShortString; Pos : Cardinal ) : ShortString
5676: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal ) : ShortString
5677: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5678: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal ) : Boolean
5679: Function CopyLeftS( const S : ShortString; Len : Cardinal ) : ShortString
5680: Function CopyMidS( const S : ShortString; First, Len : Cardinal ) : ShortString
5681: Function CopyRightS( const S : ShortString; First : Cardinal ) : ShortString
5682: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal ) : ShortString
5683: Function CopyFromNthWordS(const S,WordDelims:string;const AWord:String;N:Card;var
SubString:ShortString):Bool;
5684: Function DeleteFromNthWordS(const S,WordDelims:String;AWord:ShortString;N:Card;var
SubStr:ShortString):Bool;
5685: Function CopyFromToWordS(const S,WordDelims,Word1,Word2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5686: Function DeleteFromToWordS(const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5687: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean ) : ShortString
5688: Function DeleteWithinS( const S, Delimiter : ShortString ) : ShortString
5689: Function ExtractTokensS(const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings):Cardinal
5690: Function IsChAlphaS( C : Char ) : Boolean
5691: Function IsChNumericS( C : Char; const Numbers : ShortString ) : Boolean
5692: Function IsChAlphaNumericS( C : Char; const Numbers : ShortString ) : Boolean
5693: Function IsStrAlphaS( const S : Shortstring ) : Boolean
5694: Function IsStrNumericS( const S, Numbers : ShortString ) : Boolean
5695: Function IsStrAlphaNumericS( const S, Numbers : ShortString ) : Boolean
5696: Function LastWordS( const S, WordDelims, AWord : ShortString; var Position : Cardinal ) : Boolean
5697: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal ) : Boolean
5698: Function LastStringS( const S, AString : ShortString; var Position : Cardinal ) : Boolean
5699: Function LeftTrimCharsS( const S, Chars : ShortString ) : ShortString
5700: Function KeepCharsS( const S, Chars : ShortString ) : ShortString
5701: Function RepeatStringS(const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5702: Function ReplaceStringS(const S,OldStr,NewStr:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5703: Function ReplaceStringAllS(const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5704: Function ReplaceWordS(const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var
Replacements:Cardinal):ShortString
5705: Function ReplaceWordAllS(const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5706: Function RightTrimCharsS( const S, Chars : ShortString ) : ShortString
5707: Function StrWithinS(const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5708: Function TrimCharsS( const S, Chars : ShortString ) : ShortString
5709: Function WordPosS(const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5710: end;
5711:
5712:
5713: *****unit uPSI_StUtils; from SysTools4*****
5714: Function SignL( L : LongInt ) : Integer
5715: Function SignF( F : Extended ) : Integer
5716: Function MinWord( A, B : Word ) : Word
5717: Function MidWord( W1, W2, W3 : Word ) : Word
5718: Function MaxWord( A, B : Word ) : Word
5719: Function MinLong( A, B : LongInt ) : LongInt
5720: Function MidLong( L1, L2, L3 : LongInt ) : LongInt
5721: Function MaxLong( A, B : LongInt ) : LongInt
5722: Function MinFloat( F1, F2 : Extended ) : Extended
5723: Function MidFloat( F1, F2, F3 : Extended ) : Extended
5724: Function MaxFloat( F1, F2 : Extended ) : Extended
5725: Function MakeInteger16( H, L : Byte ) : SmallInt
5726: Function MakeWordS( H, L : Byte ) : Word
5727: Function SwapNibble( B : Byte ) : Byte
5728: Function SwapWord( L : LongInt ) : LongInt
5729: Procedure SetFlag( var Flags : Word; FlagMask : Word )
5730: Procedure ClearFlag( var Flags : Word; FlagMask : Word )
5731: Function FlagIsSet( Flags, FlagMask : Word ) : Boolean
5732: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte )
5733: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte )
5734: Function ByteFlagIsSet( Flags, FlagMask : Byte ) : Boolean
5735: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt )

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5736: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt)
5737: Function LongFlagIsSet( Flags, FlagMask : LongInt) : Boolean
5738: Procedure ExchangeBytes( var I, J : Byte)
5739: Procedure ExchangeWords( var I, J : Word)
5740: Procedure ExchangeLongInts( var I, J : LongInt)
5741: Procedure ExchangeStructs( var I, J, Size : Cardinal)
5742: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word)
5743: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal)
5744: Function AddWordToPtr( P : __Pointer; W : Word) : __Pointer
5745: //*****unit unit uPSI_StFIN;*****
5746: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis): Extended
5747: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
Par:Extended;Frequency:TStFrequency; Basis : TStBasis) : Extended
5748: Function BondDuration( Settlement,Maturity:TStDate;Rate,
Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended;
5749: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis):
Extended
5750: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5751: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5752: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis) : LongInt
5753: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer) : Extended
5754: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis): Extended;
5755: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer) : Extended
5756: Function DollarToDecimalText( DecDollar : Extended) : string
5757: Function DollarToFraction( DecDollar : Extended; Fraction : Integer) : Extended
5758: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer) : string
5759: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency ) : Extended
5760: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended;
5761: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double ) : Extended
5762: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer ) : Extended
5763: Function InterestRateS(NPeriods:Int;Pmt,PV,
FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5764: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended ) : Extended
5765: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended ) : Extended
5766: Function IsCardValid( const S : string ) : Boolean
5767: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5768: Function ModifiedIRR(const Values: array of Double; FinanceRate,ReinvestRate: Extended ) : Extended
5769: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended ) : Extended
5770: Function NetPresentValues( Rate : Extended; const Values : array of Double ) : Extended
5771: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer ) : Extended
5772: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency ) : Extended
5773: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5774: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5775: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
: TStPaymentTime): Extended
5776: Function Periods(Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5777: Function PresentValueS( Rate : Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TStFrequency;
Timing: TStPaymentTime): Extended
5778: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5779: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean ) : Extended
5780: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5781: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended ) : Extended
5782: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended ) : Extended
5783: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
Factor : Extended; NoSwitch : boolean ) : Extended
5784: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5785: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5786: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5787:
5788: //*****unit unit uPSI_StAstroP;
5789: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray )
5790: //*****unit unit uPSI_StStat; Statistic Package of SysTools*****
5791: Function AveDev( const Data : array of Double ) : Double
5792: Function AveDev16( const Data, NData : Integer ) : Double
5793: Function Confidence( Alpha, StandardDev : Double; Size : LongInt ) : Double
5794: Function Correlation( const Data1, Data2 : array of Double ) : Double
5795: Function Correlation16( const Data1, Data2, NData : Integer ) : Double
5796: Function Covariance( const Data1, Data2 : array of Double ) : Double
5797: Function Covariance16( const Data1, Data2, NData : Integer ) : Double
5798: Function DevSq( const Data : array of Double ) : Double
5799: Function DevSql16( const Data, NData : Integer ) : Double
5800: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5801: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5802: Function GeometricMeanS( const Data : array of Double ) : Double
5803: Function GeometricMean16( const Data, NData : Integer ) : Double
5804: Function HarmonicMeanS( const Data : array of Double ) : Double
5805: Function HarmonicMean16( const Data, NData : Integer ) : Double
5806: Function Largest( const Data : array of Double; K : Integer ) : Double
5807: Function Largest16( const Data, NData : Integer; K : Integer ) : Double
5808: Function MedianS( const Data : array of Double ) : Double
5809: Function Median16( const Data, NData : Integer ) : Double
5810: Function Mode( const Data : array of Double ) : Double
5811: Function Mode16( const Data, NData : Integer ) : Double
5812: Function Percentile( const Data : array of Double; K : Double ) : Double

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5813: Function Percentile16( const Data, NData : Integer; K : Double ) : Double
5814: Function PercentRank( const Data : array of Double; X : Double ) : Double
5815: Function PercentRank16( const Data, NData : Integer; X : Double ) : Double
5816: Function Permutations( Number, NumberChosen : Integer ) : Extended
5817: Function Combinations( Number, NumberChosen : Integer ) : Extended
5818: Function Factorials( N : Integer ) : Extended
5819: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean ) : Integer
5820: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean ) : Integer
5821: Function Smallest( const Data : array of Double; K : Integer ) : Double
5822: Function Smallest16( const Data, NData : Integer; K : Integer ) : Double
5823: Function TrimMean( const Data : array of Double; Percent : Double ) : Double
5824: Function TrimMean16( const Data, NData : Integer; Percent : Double ) : Double
5825: 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');
5826: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool);
5827: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool);
5828: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5829: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double;
5830: Function Intercept( const KnownY : array of Double; const KnownX : array of Double ) : Double
5831: Function RSquared( const KnownY : array of Double; const KnownX : array of Double ) : Double
5832: Function Slope( const KnownY : array of Double; const KnownX : array of Double ) : Double
5833: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double ) : Double
5834: Function BetaDist( X, Alpha, Beta, A, B : Single ) : Single
5835: Function BetaInv( Probability, Alpha, Beta, A, B : Single ) : Single
5836: Function BinomDist( Numbers, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean ) : Single
5837: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single ) : Integer
5838: Function ChiDist( X : Single; DegreesFreedom : Integer ) : Single
5839: Function ChiInv( Probability : Single; DegreesFreedom : Integer ) : Single
5840: Function ExponDist( X, Lambda : Single; Cumulative : Boolean ) : Single
5841: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5842: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer ) : Single
5843: Function LogNormDist( X, Mean, StandardDev : Single ) : Single
5844: Function NormInv( Probability, Mean, StandardDev : Single ) : Single
5845: Function LogInv( Probability, Mean, StandardDev : Single ) : Single
5846: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean ) : Single
5847: Function NormInv( Probability, Mean, StandardDev : Single ) : Single
5848: Function NormSDist( Z : Single ) : Single
5849: Function NormSInv( Probability : Single ) : Single
5850: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean ) : Single
5851: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean ) : Single
5852: Function TInv( Probability : Single; DegreesFreedom : Integer ) : Single
5853: Function Erfc( X : Single ) : Single
5854: Function GammaLn( X : Single ) : Single
5855: Function LargestSort( const Data : array of Double; K : Integer ) : Double
5856: Function SmallestSort( const Data : array of double; K : Integer ) : Double
5857:
5858: procedure SIRegister_TStSorter(CL: TPSPascalCompiler);
5859: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt ) : LongInt
5860: Function MinimumHeapToUse( RecLen : Cardinal ) : LongInt
5861: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt ) : TMergeInfo
5862: Function DefaultMergeName( MergeNum : Integer ) : string
5863: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc );
5864:
5865: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5866: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double ) : TStTime
5867: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double ) : TStRiseSetRec
5868: Function SunPos( UT : TStDateTimerRec ) : TStPosRec
5869: Function SunPosPrim( UT : TStDateTimerRec ) : TStSunXYZRec
5870: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5871: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight ):TStRiseSetRec
5872: Function LunarPhase( UT : TStDateTimerRec ) : Double
5873: Function MoonPos( UT : TStDateTimerRec ) : TStMoonPosRec
5874: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double ) : TStRiseSetRec
5875: Function FirstQuarter( D : TStDate ) : TStLunarRecord
5876: Function FullMoon( D : TStDate ) : TStLunarRecord
5877: Function LastQuarter( D : TStDate ) : TStLunarRecord
5878: Function NewMoon( D : TStDate ) : TStLunarRecord
5879: Function NextFirstQuarter( D : TStDate ) : TStDateTimerRec
5880: Function NextFullMoon( D : TStDate ) : TStDateTimerRec
5881: Function NextLastQuarter( D : TStDate ) : TStDateTimerRec
5882: Function NextNewMoon( D : TStDate ) : TStDateTimerRec
5883: Function PrevFirstQuarter( D : TStDate ) : TStDateTimerRec
5884: Function PrevFullMoon( D : TStDate ) : TStDateTimerRec
5885: Function PrevLastQuarter( D : TStDate ) : TStDateTimerRec
5886: Function PrevNewMoon( D : TStDate ) : TStDateTimerRec
5887: Function SiderealTime( UT : TStDateTimerRec ) : Double
5888: Function Solstice( Y, Epoch : Integer; Summer : Boolean ) : TStDateTimerRec
5889: Function Equinox( Y, Epoch : Integer; Vernal : Boolean ) : TStDateTimerRec
5890: Function SEaster( Y, Epoch : Integer ) : TStDate
5891: Function DateToAJD( D : TDate ) : Double
5892: Function HoursMin( RA : Double ) : ShortString
5893: Function DegsMin( DC : Double ) : ShortString
5894: Function AJDToDate( D : Double ) : TDate
5895:
5896: Procedure SIRegister_StDate(CL: TPSPascalCompiler);
5897: Function CurrentDate : TStDate
5898: Function StValidDate( Day, Month, Year, Epoch : Integer ) : Boolean
5899: Function DMYtoStDate( Day, Month, Year, Epoch : Integer ) : TStDate

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5900: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer)
5901: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer) : TStDate
5902: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer) : TStDate
5903: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer)
5904: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType) : TStDate
5905: Function WeekOfYear( Julian : TStDate) : Byte
5906: Function AstJulianDate( Julian : TStDate) : Double
5907: Function AstJulianDateToDate( AstJulian : Double; Truncate : Boolean) : TStDate
5908: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime) : Double
5909: Function StDayOfWeek( Julian : TStDate) : TStDayType
5910: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer) : TStDayType
5911: Function StIsLeapYear( Year : Integer) : Boolean
5912: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer) : Integer
5913: Function ResolveEpoch( Year, Epoch : Integer) : Integer
5914: Function ValidTime( Hours, Minutes, Seconds : Integer) : Boolean
5915: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte)
5916: Function HMSToSTime( Hours, Minutes, Seconds : Byte) : TStTime
5917: Function CurrentTime : TStTime
5918: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte)
5919: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5920: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte) : TStTime
5921: Function RoundToNearestHour( T : TStTime; Truncate : Boolean) : TStTime
5922: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean) : TStTime
5923: Procedure DateTimeDiff( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt)
5924: Procedure IncDateTime( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt)
5925: Function DateTimeToStDate( DT : TDateTime) : TStDate
5926: Function DateTimeToStTime( DT : TDateTime) : TStTime
5927: Function StDateToDateTime( D : TStDate) : TDateTime
5928: Function StTimeToDateTime( T : TStTime) : TDateTime
5929: Function Convert2ByteDate( TwoByteDate : Word) : TStDate
5930: Function Convert4ByteDate( FourByteDate : TStDate) : Word
5931:
5932: Procedure SIRegister_StDateSt(CL: TPSPPascalCompiler);
5933: Function DateStringHMSToAstJD( const Picture, DS : string; H, M, S, Epoch : integer) : Double
5934: Function MonthToString( const Month : Integer) : string
5935: Function DateStringToStDate( const Picture, S : string; Epoch : Integer) : TStDate
5936: Function DateStringToDMY( const Picture,S:string;Epoch:Integer; var D, M, Y : Integer):Boolean
5937: Function StDateToString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5938: Function DayofWeekToString( const WeekDay : TStDayType) : string
5939: Function DMYToString( const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
5940: Function CurrentDateString( const Picture : string; Pack : Boolean) : string
5941: Function CurrentTimeString( const Picture : string; Pack : Boolean) : string
5942: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer) : Boolean
5943: Function TimeStringToStTime( const Picture, S : string) : TStTime
5944: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5945: Function StTimeToTimeString( const Picture : string; const T : TStTime; Pack : Boolean) : string
5946: Function DateStringIsBlank( const Picture, S : string) : Boolean
5947: Function InternationalDate( ForceCentury : Boolean) : string
5948: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean) : string
5949: Function InternationalTime( ShowSeconds : Boolean) : string
5950: Procedure ResetInternationalInfo
5951:
5952: procedure SIRegister_StBase(CL: TPSPPascalCompiler);
5953: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer) : Boolean
5954: Function AnsiUpperCaseShort32( const S : string) : string
5955: Function AnsiCompareTextShort32( const S1, S2 : string) : Integer
5956: Function AnsiCompareStrShort32( const S1, S2 : string) : Integer
5957: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer) : Longint
5958: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
5959: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte)
5960: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal)
5961: Function Upcase( C : AnsiChar) : AnsiChar
5962: Function LoCase( C : AnsiChar) : AnsiChar
5963: Function CompareLetterSets( Set1, Set2 : LongInt) : Cardinal
5964: Function CompStruct( const S1, S2, Size : Cardinal) : Integer
5965: Function Search(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5966: Function StSearch(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5967: Function SearchUC(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5968: Function IsOrInheritsFrom( Root, Candidate : TClass) : boolean
5969: Procedure RaiseContainerError( Code : longint)
5970: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const)
5971: Function ProductOverflow( A, B : LongInt) : Boolean
5972: Function StNewStr( S : string) : PShortString
5973: Procedure StDisposeStr( PS : PShortString)
5974: Procedure ValLongInt( S : ShortString; var LI : Longint; var ErrorCode : integer)
5975: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer)
5976: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer)
5977: Procedure RaiseSError( ExceptionClass : EStExceptionClass; Code : LongInt)
5978: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt)
5979: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string)
5980:
5981: procedure SIRegister_usvd(CL: TPSPPascalCompiler);
5982: begin
5983: Procedure SV_DecomP( A : TMatrix; Lb, Ubl, Ub2 : Integer; S : TVector; V : TMatrix)
5984: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float)
5985: Procedure SV_Solve(U:TMatrix; S:TVector;V:TMatrix;B:TVector;Lb,Ubl,Ub2:Integer;X:TVector);
5986: Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ubl, Ub2 : Integer; A : TMatrix)
5987: Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int);
5988: end;

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5989:
5990: //*****unit unit ; StMath Package of SysTools*****
5991: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
5992: Function PowerS( Base, Exponent : Extended) : Extended
5993: Function StInvCos( X : Double) : Double
5994: Function StInvsin( Y : Double) : Double
5995: Function StInvTan2( X, Y : Double) : Double
5996: Function StTan( A : Double) : Double
5997: Procedure DumpException; //unit StExpEng;
5998: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
5999:
6000: //*****unit unit ; STCRC Package of SysTools*****
6001: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6002: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6003: Function Adler32OfFile( FileName : AnsiString) : LongInt
6004: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6005: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6006: Function Crc16OfFile( FileName : AnsiString) : Cardinal
6007: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6008: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6009: Function Crc32OfFile( FileName : AnsiString) : LongInt
6010: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6011: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6012: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
6013: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6014: Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6015: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
6016:
6017: //*****unit unit ; StBCD Package of SysTools*****
6018: Function AddBcd( const B1, B2 : Tbcds) : Tbcds
6019: Function SubBcd( const B1, B2 : Tbcds) : Tbcds
6020: Function MulBcd( const B1, B2 : Tbcds) : Tbcds
6021: Function DivBcd( const B1, B2 : Tbcds) : Tbcds
6022: Function ModBcd( const B1, B2 : Tbcds) : Tbcds
6023: Function NegBcd( const B : Tbcds) : Tbcds
6024: Function AbsBcd( const B : Tbcds) : Tbcds
6025: Function FracBcd( const B : Tbcds) : Tbcds
6026: Function IntBcd( const B : Tbcds) : Tbcds
6027: Function RoundDigitsBcd( const B : Tbcds; Digits : Cardinal) : Tbcds
6028: Function RoundPlacesBcd( const B : Tbcds; Places : Cardinal) : Tbcds
6029: Function ValBcd( const S : string) : Tbcds
6030: Function LongBcd( L : LongInt) : Tbcds
6031: Function ExtBcd( E : Extended) : Tbcds
6032: Function ExpBcd( const B : Tbcds) : Tbcds
6033: Function LnBcd( const B : Tbcds) : Tbcds
6034: Function IntPowBcd( const B : Tbcds; E : LongInt) : Tbcds
6035: Function PowBcd( const B, E : Tbcds) : Tbcds
6036: Function SqrtBcd( const B : Tbcds) : Tbcds
6037: Function CmpBcd( const B1, B2 : Tbcds) : Integer
6038: Function EqDigitsBcd( const B1, B2 : Tbcds; Digits : Cardinal) : Boolean
6039: Function EqPlacesBcd( const B1, B2 : Tbcds; Digits : Cardinal) : Boolean
6040: Function IsIntBcd( const B : Tbcds) : Boolean
6041: Function TruncBcd( const B : Tbcds) : LongInt
6042: Function BcdExt( const B : Tbcds) : Extended
6043: Function RoundBcd( const B : Tbcds) : LongInt
6044: Function StrBcd( const B : Tbcds; Width, Places : Cardinal) : string
6045: Function StrExpBcd( const B : Tbcds; Width : Cardinal) : string
6046: Function FormatBcd( const Format : string; const B : Tbcds) : string
6047: Function StrGeneralBcd( const B : Tbcds) : string
6048: Function FloatFormBcd(const Mask:string;B:Tbcds;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6049: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6050:
6051: //*****unit unit ; StTxtDat, TStTextDataRecordSet Package of SysTools*****
6052: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6053: Function StFieldTypeToStr( FieldType : TStSchemaFieldType) : AnsiString
6054: Function StStrToFieldType( const S : AnsiString) : TStSchemaFieldType
6055: Function StDeEscape( const EscStr : AnsiString) : Char
6056: Function StDoEscape( Delim : Char) : AnsiString
6057: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char) : AnsiString
6058: Function AnsiHashText( const S : string; Size : Integer) : Integer
6059: Function AnsiHashStr( const S : string; Size : Integer) : Integer
6060: Function AnsiELFHashText( const S : string; Size : Integer) : Integer
6061: Function AnsiELFHashStr( const S : string; Size : Integer) : Integer
6062:
6063: //*****unit unit ; StNetCon Package of SysTools*****
6064: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6065:   Constructor Create( AOwner : TComponent)
6066:   Function Connect : DWord
6067:   Function Disconnect : DWord
6068:   RegisterProperty('Password', 'String', iptrw);
6069:   Property('UserName', 'String', iptrw);
6070:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6071:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6072:   Property('LocalDevice', 'String', iptrw);
6073:   Property('ServerName', 'String', iptrw);
6074:   Property('ShareName', 'String', iptrw);
6075:   Property('OnConnect', 'TNotifyEvent', iptrw);
6076:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6077:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);

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6078:     Property('OnDisconnect', 'TNotifyEvent', iptrw);
6079:     Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6080:     Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6081:   end;
6082: //*****Thread Functions Context of Win API --- more objects in SyncObjs.pas
6083: / /153 unit uPSI_SyncObjs, unit uPSIParallelJobs;
6084: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection)
6085: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection)
6086: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection)
6087: Function InitializeCriticalSectionAndSpinCount(var
6088:   lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6089: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6090: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection ) : BOOL
6091: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection )
6092: Function GetThreadContext( hThread : THandle; var lpContext : TContext ) : BOOL
6093: Function SetThreadContext( hThread : THandle; const lpContext : TContext ) : BOOL
6094: Function SuspendThread( hThread : THandle ) : DWORD
6095: Function ResumeThread( hThread : THandle ) : DWORD
6096: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THandle
6097: Procedure GetCurrentThread : THandle
6098: Function ExitThread( dwExitCode : DWORD )
6099: Function GetExitCodeThread( hThread : THandle; var lpExitCode : DWORD ) : BOOL
6100: Procedure EndThread(ExitCode: Integer);
6101: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD ) : DWORD
6102: Function MakeProcInstance( Proc : FARPROC; Instance : THandle ) : FARPROC
6103: Procedure FreeProcInstance( Proc : FARPROC )
6104: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD )
6105: Function DisableThreadLibraryCalls( hLibModule : HMODULE ) : BOOL
6106: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6107: Procedure ParallelJob1( ATarget : Pointer; AParam : Pointer; ASafeSection : boolean );
6108: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool;
6109: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection:boolean );
6110: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob;
6111: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6112: Function CurrentParallelJobInfo : TParallelJobInfo
6113: Function ObtainParallelJobInfo : TParallelJobInfo
6114: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo );
6115: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD ) : BOOL';
6116: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle ) : BOOL';
6117: Function DeviceIoControl( hDevice : THandle; dwIoControlCode : DWORD; lpInBuffer : TObject; nInBufferSize
6118: : DWORD; lpOutBuffer: TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped :
6119: TOverlapped ) : BOOL';
6120: Function SetFileTime( hFile : THandle; lpCreationTime, lpLastAccessTime, lpLastWriteTime : TFileTime ) :
6121: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD ) : BOOL';
6122: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD ) : BOOL';
6123: *****unit uPSI_JclMime;
6124: Function MimeEncodeString( const S : AnsiString ) : AnsiString
6125: Function MimeDecodeString( const S : AnsiString ) : AnsiString
6126: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream )
6127: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream )
6128: Function MimeEncodedSize( const I : Cardinal ) : Cardinal
6129: Function MimeDecodedSize( const I : Cardinal ) : Cardinal
6130: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer )
6131: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6132: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
6133: OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : Cardinal
6134: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):
6135: Cardinal;
6136: *****unit uPSI_JclPrint;
6137: Procedure DirectPrint( const Printer, Data : string )
6138: Procedure SetPrinterPixelsPerInch
6139: Function GetPrinterResolution : TPoint
6140: Function CharFitsWithinDots( const Text : string; const Dots : Integer ) : Integer
6141: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect )
6142:
6143: *****unit uPSI_ShLwApi;
6144: Function StrChr( lpStart : PChar; wMatch : WORD ) : PChar
6145: Function StrChri( lpStart : PChar; wMatch : WORD ) : PChar
6146: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6147: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6148: Function StrCSpan( lpStr_, lpSet : PChar ) : Integer
6149: Function StrCSpanI( lpStr1, lpSet : PChar ) : Integer
6150: Function StrDup( lpSrch : PChar ) : PChar
6151: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT ) : PChar
6152: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT ) : PChar
6153: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6154: Function StrIsIntlEqual( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6155: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6156: Function StrPBrk( psz, pszSet : PChar ) : PChar
6157: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6158: Function StrRChrI( lpStart, lpLast : PChar; wMatch : WORD ) : PChar
6159: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar

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6160: Function StrSpan( psz, pszSet : PChar) : Integer
6161: Function StrStr( lpFirst, lpSrch : PChar) : PChar
6162: Function StrStrI( lpFirst, lpSrch : PChar) : PChar
6163: Function StrToInt( lpSrch : PChar) : Integer
6164: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer) : BOOL
6165: Function StrTrim( psz : PChar; pszTrimChars : PChar) : BOOL
6166: Function ChrCmpI( w1, w2 : WORD) : BOOL
6167: Function ChrCmpIA( w1, w2 : WORD) : BOOL
6168: Function ChrCmpIW( w1, w2 : WORD) : BOOL
6169: Function StrIntEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6170: Function StrIntEqNI( s1, s2 : PChar; nChar : Integer) : BOOL
6171: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer) : PChar
6172: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6173: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer) : BOOL
6174: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer) : BOOL
6175: SZ_CONTENTTYPE_HTMLA', 'String 'text/html
6176: SZ_CONTENTTYPE_HTMLW', 'String 'text/html
6177: SZ_CONTENTTYPE_HTML', 'string SZ_CONTENTTYPE_HTMLA);
6178: SZ_CONTENTTYPE_CDFA', 'String 'application/x-cdf
6179: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf
6180: SZ_CONTENTTYPE_CDF', 'string SZ_CONTENTTYPE_CDFA);
6181: Function PathIsHTMLFile( pszPath : PChar) : BOOL
6182: STIF_DEFAULT ', 'LongWord( $00000000);
6183: STIF_SUPPORT_HEX ', 'LongWord( $00000001);
6184: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6185: Function StrNCopy( psz1, psz2 : PChar; cchMax : Integer) : PChar
6186: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6187: Function PathAddBackslash( pszPath : PChar) : PChar
6188: Function PathAddExtension( pszPath : PChar; pszExt : PChar) : BOOL
6189: Function PathAppend( pszPath : PChar; pMore : PChar) : BOOL
6190: Function PathBuildRoot( szRoot : PChar; iDrive : Integer) : PChar
6191: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar) : BOOL
6192: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar) : PChar
6193: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT) : BOOL
6194: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD) : BOOL
6195: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar) : Integer
6196: Function PathFileExists( pszPath : PChar) : BOOL
6197: Function PathFindExtension( pszPath : PChar) : PChar
6198: Function PathFindFileName( pszPath : PChar) : PChar
6199: Function PathFindNextComponent( pszPath : PChar) : PChar
6200: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar) : BOOL
6201: Function PathGetArgs( pszPath : PChar) : PChar
6202: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6203: Function PathIsLFNFileSpec( lpName : PChar) : BOOL
6204: Function PathGetCharType( ch : Char) : UINT
6205: GCT_INVALID ', 'LongWord( $0000);
6206: GCT_LFNCHAR ', 'LongWord( $0001);
6207: GCT_SHORTCHAR ', 'LongWord( $0002);
6208: GCT_WILD ', 'LongWord( $0004);
6209: GCT_SEPARATOR ', 'LongWord( $0008);
6210: Function PathGetDriveNumber( pszPath : PChar) : Integer
6211: Function PathIsDirectory( pszPath : PChar) : BOOL
6212: Function PathIsDirectoryEmpty( pszPath : PChar) : BOOL
6213: Function PathIsFileSpec( pszPath : PChar) : BOOL
6214: Function PathIsPrefix( pszPrefix, pszPath : PChar) : BOOL
6215: Function PathIsRelative( pszPath : PChar) : BOOL
6216: Function PathIsRoot( pszPath : PChar) : BOOL
6217: Function PathIsSameRoot( pszPath1, pszPath2 : PChar) : BOOL
6218: Function PathIsUNC( pszPath : PChar) : BOOL
6219: Function PathIsNetworkPath( pszPath : PChar) : BOOL
6220: Function PathIsUNCServer( pszPath : PChar) : BOOL
6221: Function PathIsUNCServerShare( pszPath : PChar) : BOOL
6222: Function PathIsContentType( pszPath, pszContentType : PChar) : BOOL
6223: Function PathIsURL( pszPath : PChar) : BOOL
6224: Function PathMakePretty( pszPath : PChar) : BOOL
6225: Function PathMatchSpec( pszFile, pszSpec : PChar) : BOOL
6226: Function PathParseIconLocation( pszIconFile : PChar) : Integer
6227: Procedure PathQuoteSpaces( lpsz : PChar)
6228: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6229: Procedure PathRemoveArgs( pszPath : PChar)
6230: Function PathRemoveBackslash( pszPath : PChar) : PChar
6231: Procedure PathRemoveBlanks( pszPath : PChar)
6232: Procedure PathRemoveExtension( pszPath : PChar)
6233: Function PathRemoveFileSpec( pszPath : PChar) : BOOL
6234: Function PathRenameExtension( pszPath : PChar; pszExt : PChar) : BOOL
6235: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT) : BOOL
6236: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar)
6237: Function PathSkipRoot( pszPath : PChar) : PChar
6238: Procedure PathStripPath( pszPath : PChar)
6239: Function PathStripToRoot( pszPath : PChar) : BOOL
6240: Procedure PathUnquoteSpaces( lpsz : PChar)
6241: Function PathMakeSystemFolder( pszPath : PChar) : BOOL
6242: Function PathUnmakeSystemFolder( pszPath : PChar) : BOOL
6243: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD) : BOOL
6244: Procedure PathUndecorate( pszPath : PChar)
6245: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT) : BOOL
6246: URL_SCHEME_INVALID ', 'LongInt( - 1);
6247: URL_SCHEME_UNKNOWN ', 'LongInt( 0);
6248: URL_SCHEME_FTP ', 'LongInt( 1);

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6249: URL_SCHEME_HTTP', 'LongInt'( 2);
6250: URL_SCHEME_GOPHER', 'LongInt'( 3);
6251: URL_SCHEME_MAILTO', 'LongInt'( 4);
6252: URL_SCHEME_NEWS', 'LongInt'( 5);
6253: URL_SCHEME_NNTP', 'LongInt'( 6);
6254: URL_SCHEME_TELNET', 'LongInt'( 7);
6255: URL_SCHEME_WAIS', 'LongInt'( 8);
6256: URL_SCHEME_FILE', 'LongInt'( 9);
6257: URL_SCHEME_MK', 'LongInt'( 10);
6258: URL_SCHEME_HTTPS', 'LongInt'( 11);
6259: URL_SCHEME_SHELL', 'LongInt'( 12);
6260: URL_SCHEME_SNEWS', 'LongInt'( 13);
6261: URL_SCHEME_LOCAL', 'LongInt'( 14);
6262: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15);
6263: URL_SCHEME_VBSCRIPT', 'LongInt'( 16);
6264: URL_SCHEME_ABOUT', 'LongInt'( 17);
6265: URL_SCHEME_RES', 'LongInt'( 18);
6266: URL_SCHEME_MAXVALUE', 'LongInt'( 19);
6267: URL_SCHEME', 'Integer
6268: URL_PART_NONE', 'LongInt'( 0);
6269: URL_PART_SCHEME', 'LongInt'( 1);
6270: URL_PART_HOSTNAME', 'LongInt'( 2);
6271: URL_PART_USERNAME', 'LongInt'( 3);
6272: URL_PART_PASSWORD', 'LongInt'( 4);
6273: URL_PART_PORT', 'LongInt'( 5);
6274: URL_PART_QUERY', 'LongInt'( 6);
6275: URL_PART', 'DWORD
6276: URLIS_URL', 'LongInt'( 0);
6277: URLIS_OPAQUE', 'LongInt'( 1);
6278: URLIS_NOHISTORY', 'LongInt'( 2);
6279: URLIS_FILEURL', 'LongInt'( 3);
6280: URLIS_APPLICABLE', 'LongInt'( 4);
6281: URLIS_DIRECTORY', 'LongInt'( 5);
6282: URLIS_HASQUERY', 'LongInt'( 6);
6283: TUrlIs', 'DWORD
6284: URL_UNESCAPE', 'LongWord( $10000000);
6285: URL_ESCAPE_UNSAFE', 'LongWord( $20000000);
6286: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000);
6287: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6288: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000);
6289: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000);
6290: URL_DONT_SIMPLIFY', 'LongWord( $08000000);
6291: URL_NO_META', 'longword( URL_DONT_SIMPLIFY);
6292: URL_UNESCAPE_INPLACE', 'LongWord( $00100000);
6293: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000);
6294: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000);
6295: URL_INTERNAL_PATH', 'LongWord( $00800000);
6296: URL_FILE_USE_PATHURL', 'LongWord( $00010000);
6297: URL_ESCAPE_PERCENT', 'LongWord( $00001000);
6298: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000);
6299: URL_PARTFLAG_KEEPSHEME', 'LongWord( $00000001);
6300: URL_APPLY_DEFAULT', 'LongWord( $00000001);
6301: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002);
6302: URL_APPLY_GUESSFILE', 'LongWord( $00000004);
6303: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008);
6304: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL ) : Integer
6305: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD):HRESULT;
6306: Function UrlCanonicalize(pszUrl : PChar;pszCanonicalized : PChar;pcchCanonic : DWORD;dwFlags : DWORD) : HRESULT;
6307: Function UrlsOpaque( pszURL : PChar ) : BOOL
6308: Function UrlsNoHistory( pszURL : PChar ) : BOOL
6309: Function UrlsIsFileUrl( pszURL : PChar ) : BOOL
6310: Function UrlIs( pszUrl : PChar; UrlIs : TUrlIs ) : BOOL
6311: Function UrlGetLocation( psz1 : PChar ) : PChar
6312: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD ) : HRESULT
6313: Function UrlEscape(pszUrl : PChar; pszEscaped : PChar; pcchEscaped:DWORD; dwFlags : DWORD ) : HRESULT
6314: Function UrlCreateFromPath(pszPath:PChar; pszUrl : PChar;pcchUrl : DWORD; dwFlags : DWORD) : HRESULT
6315: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD) : HRESULT
6316: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6317: Function UrlGetPart(pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwPart,dwFlags: DWORD ) : HRESULT
6318: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD ) : HRESULT
6319: Function HashData( pbData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD ) : HRESULT
6320: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD ) : HRESULT
6321: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD ) : HRESULT
6322: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6323: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar ) : DWORD
6324: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar ) : DWORD
6325: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD ) : Longint
6326: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : __Pointer; pcbData : DWORD ) : Longint
6327: Function SHQueryInfoKey(hKey:HKEY;pcSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6328: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD ) : DWORD
6329: Function SHRegGetPath(hKey:HKEY; pcszSubKey,pcszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6330: Function SHRegSetPath( hKey:HKEY; pcSubKey, pcSzValue, pcSzPath : PChar; dwFlags : DWORD): DWORD
6331: SHREGDEL_DEFAULT', 'LongWord( $00000000);
6332: SHREGDEL_HKCU', 'LongWord( $00000001);
6333: SHREGDEL_HKLM', 'LongWord( $00000010);
6334: SHREGDEL_BOTH', 'LongWord( $00000011);
6335: SHREGENUM_DEFAULT', 'LongWord( $00000000);
6336: SHREGENUM_HKCU', 'LongWord( $00000001);

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6337: SHREGENUM_HKLM', 'LongWord( $00000010);
6338: SHREGENUM_BOTH', 'LongWord( $00000011);
6339: SHREGSET_HKCU', 'LongWord( $00000001);
6340: SHREGSET_FORCE_HKCU', 'LongWord( $00000002);
6341: SHREGSET_HKLM', 'LongWord( $00000004);
6342: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6343: TSHRegDelFlags', 'DWORD
6344: TSHRegEnumFlags', 'DWORD
6345: HUSKEY', 'THandle
6346: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6347: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6348: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6349: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6350: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6351: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6352: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6353: ASSOCF_VERIFY', 'LongWord( $00000040);
6354: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6355: ASSOCF_NOFIXUPS', 'LongWord( $00000100);
6356: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6357: ASSOCF', 'DWORD
6358: ASSOCSTR_COMMAND', 'LongInt'( 1);
6359: ASSOCSTR_EXECUTABLE', 'LongInt'( 2);
6360: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3);
6361: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4);
6362: ASSOCSTR_NOOPEN', 'LongInt'( 5);
6363: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6);
6364: ASSOCSTR_DDECOMMAND', 'LongInt'( 7);
6365: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8);
6366: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9);
6367: ASSOCSTR_DDETOPIC', 'LongInt'( 10);
6368: ASSOCSTR_INFOTIP', 'LongInt'( 11);
6369: ASSOCSTR_MAX', 'LongInt'( 12);
6370: ASSOCSTR', 'DWORD
6371: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1);
6372: ASSOCKEY_APP', 'LongInt'( 2);
6373: ASSOCKEY_CLASS', 'LongInt'( 3);
6374: ASSOCKEY_BASECLASS', 'LongInt'( 4);
6375: ASSOCKEY_MAX', 'LongInt'( 5);
6376: ASSOCKEY', 'DWORD
6377: ASSOCDATA_MSIDEScriptor', 'LongInt'( 1);
6378: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6379: ASSOCDATA_QUERYCLASSTORe', 'LongInt'( 3);
6380: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6381: ASSOCDATA_MAX', 'LongInt'( 5);
6382: ASSOCDATA', 'DWORD
6383: ASSOCENUM_NONE', 'LongInt'( 0);
6384: ASSOCENUM', 'DWORD
6385: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6386: SHACF_DEFAULT $00000000;
6387: SHACF_FILESYSTEM', 'LongWord( $00000001);
6388: SHACF_URLHISTORY', 'LongWord( $00000002);
6389: SHACF_URLMRU', 'LongWord( $00000004);
6390: SHACF_USETAB', 'LongWord( $00000008);
6391: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6392: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6393: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6394: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6395: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD ( $80000000 ) );
6396: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6397: Procedure SHSetThreadRef( punk : IUnknown )
6398: Procedure SHGetThreadRef( out ppunk : IUnknown )
6399: CTF_INSIST', 'LongWord( $00000001);
6400: CTF_THREAD_REF', 'LongWord( $00000002);
6401: CTF_PROCESS_REF', 'LongWord( $00000004);
6402: CTF_COINIT', 'LongWord( $00000008);
6403: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6404: Procedure ColorRGBtoHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6405: Function ColorHLStoRGB( wHue, wLuminance, wSaturation : WORD ) : TColorRef
6406: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6407: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6408: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6409: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6410: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6411: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6412: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6413: Function SetRectEmpty( var lprc : TRect ) : BOOL
6414: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6415: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6416: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6417: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6418:
6419: Function InitializeFlatSB( hWnd : HWND ) : Bool
6420: Procedure UninitializeFlatSB( hWnd : HWND )
6421: Function FlatSB_GetScrollProp( p1 : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6422: Function FlatSB_SetScrollProp( p1 : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool
6423: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6424: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6425: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer

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6426: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6427: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6428:
6429:
6430: // **** 204 unit uPSI_ShellAPI;
6431: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6432: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6433: Procedure DragFinish( Drop : HDROP )
6434: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6435: Function ShellExecute(hWnd:HWND;Operation,FileName,Parameters,Directory:PChar;ShowCmd:Integer):HINST
6436: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6437: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6438: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6439: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6440: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT ) : HICON
6441: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6442: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6443: Function ExtractIconEx(lpszFile:PChar;nIconIndex:Int;var phiconLarge,phiconSmall:HICON;nIcons:UINT):UINT;
6444: Procedure SHFreeNameMappings( hNameMappings : THandle )
6445:
6446: DLLVER_PLATFORM_WINDOWS,'LongWord( $00000001 );
6447: DLLVER_PLATFORM_NT,'LongWord( $00000002 );
6448: DLLVER_MAJOR_MASK,'LongWord( Int64 ( $FFFF000000000000 ) );
6449: DLLVER_MINOR_MASK,'LongWord( Int64 ( $0000FFFF00000000 ) );
6450: DLLVER_BUILD_MASK,'LongWord( Int64 ( $00000000FFFF0000 ) );
6451: DLLVER_QFE_MASK,'LongWord( Int64 ( $000000000000FFFF ) );
6452: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6453: Function SimpleXMLEncode( const S : string ) : string
6454: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6455: Function XMLEncode( const S : string ) : string
6456: Function XMLDecode( const S : string ) : string
6457: Function EntityEncode( const S : string ) : string
6458: Function EntityDecode( const S : string ) : string
6459:
6460: procedure RIRegister_CPort_Routines(S: TPSEExec);
6461: Procedure EnumComPorts( Ports : TStrings )
6462: Procedure ListComPorts( Ports : TStrings )
6463: Procedure ComPorts( Ports : TStrings ) //Alias to Arduino
6464: Function GetComPorts: TStringlist;
6465: Function StrToBaudRate( Str : string ) : TBaudRate
6466: Function StrToStopBits( Str : string ) : TStopBits
6467: Function StrToDataBits( Str : string ) : TDataBits
6468: Function StrToParity( Str : string ) : TParityBits
6469: Function StrToFlowControl( Str : string ) : TFlowControl
6470: Function BaudRateToStr( BaudRate : TBaudRate ) : string
6471: Function StopBitsToStr( StopBits : TStopBits ) : string
6472: Function DataBitsToStr( DataBits : TDataBits ) : string
6473: Function ParityToStr( Parity : TParityBits ) : string
6474: Function FlowControlToStr( FlowControl : TFlowControl ) : string
6475: Function ComErrorsToStr( Errors : TComErrors ) : String
6476:
6477: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
6478: Function DispatchMessage( const lpMsg : TMsg ) : Longint
6479: Function TranslateMessage( const lpMsg : TMsg ) : BOOL
6480: Function SetMessageQueue( cMessagesMax : Integer ) : BOOL
6481: Function PeekMessage(var lpMsg:TMsg; hWnd:HWND;wMsgFilterMin,wMsgFilterMax,wRemoveMsg:UINT):BOOL
6482: Function GetMessagePos : DWORD
6483: Function GetMessageTime : Longint
6484: Function GetMessageExtraInfo : Longint
6485: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean ) : string
6486: Procedure JAddToRecentDocs( const Filename : string )
6487: Procedure ClearRecentDocs
6488: Function ExtractIconFromFile( FileName : string; Index : Integer ) : HICON
6489: Function CreateShellLink( const AppName, Desc : string; Dest : string ) : string
6490: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo )
6491: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo )
6492: Function RecycleFile( FileToRecycle : string ) : Boolean
6493: Function JCopyFile( FromFile, ToDir : string ) : Boolean
6494: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType ) : UINT
6495: Function ShellObjectTypeConstToEnum( ShellObjectType : UINT ) : TShellObjectType
6496: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6497: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6498: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL
6499: Function EnumServicesStatusExA(hSCManager: SC_HANDLE; InfoLevel: SC_ENUM_TYPE; dwServiceType: DWORD; dwServiceState: DWORD;lpServices:LPBYTE;cbBufSize:DWORD;var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD;pszGroupName: LP
6500: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices:LPBYTE; cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6501: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD;lpServices : LPBYTE;cbBufSize:DWORD; var pcbBytesNeeded,lpServicesReturned,lpResumeHandle:DWORD; pszGroupName
6502: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR ) : BOOL
6503:
6504: ***** unit uPSI_JclPeImage;
6505:

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6506: Function IsValidPeFile( const FileName : TFileName ) : Boolean
6507: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders ) : Boolean
6508: Function PeCreateNameHintTable( const FileName : TFileName ) : Boolean
6509: Function PeRebaseImage(const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6510: Function PeVerifyCheckSum( const FileName : TFileName ) : Boolean
6511: Function PeClearCheckSum( const FileName : TFileName ) : Boolean
6512: Function PeUpdateCheckSum( const FileName : TFileName ) : Boolean
6513: Function PeDoesExportFunction(const FileName:TFileName,const FuncName:string;Options:TJclSmartCompOptions):Bool
6514: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6515: Function PeIsExportFunctionForwarded(const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6516: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions ) : Boolean
6517: Function PeDoesImportLibrary(const FileName:TFileName;const LibraryName:string;Recursive:Boolean);
6518: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean ) : Boolean
6519: Function PeImportedFunctions(const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string;IncludeLibNames : Boolean): Boolean
6520: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6521: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6522: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6523: Function PeResourceKindNames(const FileN:TFileName;ResourceType:TJclPeResourceKind;const NamesList:TStrings):Bool
6524: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6525: Function PeBorDependedPackages(const FileName:TFileName;PackagesList:TStrings;FullPathName, Descript:Bool):Bool;
6526: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6527: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6528: Function PeCreateRequiredImportList(const FileName : TFileName; RequiredImportsList: TStrings): Boolean;
6529: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6530: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6531: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6532: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) : PImageSectionHeader
6533: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6534: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6535: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):__Pointer;
6536: SIRegister_TJclPeSectionStream(CL);
6537: SIRegister_TJclPeMapImgHookItem(CL);
6538: SIRegister_TJclPeMapImgHooks(CL);
6539: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer,var NtHeaders:TImageNtHeaders):Boolean
6540: //Function PeDbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6541: Type TJclBorUmSymbolKind', '(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6542: TJclBorUmSymbolModifier', '( smQualified, smLinkProc )
6543: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6544: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6545: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6546: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6547: Function PeBorUmUnmangleName( const Name : string; var Unmangled : string; var Description : TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6548: Function PeBorUmUnmangleName1(const Name:string;var Unmangled:string;var Descript:TJclBorUmDescription):TJclBorUmResult;
6549: Function PeBorUmUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6550: Function PeBorUmUnmangleName3( const Name : string ) : string;
6551: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6552: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6553:
6554:
6555: //***** SysTools uPSI_StSystem; *****
6556: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6557: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6558: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6559: //Procedure EnumerateDirectories(const StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6560: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool
   IncludeItem:TIncludeItemFunc);
6561: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6562: Function FileMatchesMask( const FileName, FileMode : AnsiString ) : Boolean
6563: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6564: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6565: Function FlushOsBuffers( Handle : Integer ) : Boolean
6566: Function GetCurrentUser : AnsiString
6567: Function GetDiskClass( Drive : Char ) : DiskClass
6568: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector, SectorsPerCluster:Cardinal):Bool;
6569: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var DiskSize:Double):Bool;
6570: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var DiskSize:Comp):Boolean;
6571: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }
6572: Function getDiskSpace2(const path: String; index: integer): int64;
6573: Function GetFileCreateDate( const FileName : AnsiString ) : TDateTime
6574: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime

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6575: Function GetFileLastModify( const FileName : AnsiString ) : TDateTime
6576: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6577: Function GetLongPath( const APath : AnsiString ) : AnsiString
6578: Function GetMachineName : AnsiString
6579: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6580: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString
6581: Function GetShortPath( const APath : AnsiString ) : AnsiString
6582: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString
6583: Function GetTempFolder( aForceSlash : Boolean ) : AnsiString
6584: Function StGetWindowsFolder( aForceSlash : Boolean ) : AnsiString
6585: Function GetWorkingFolder( aForceSlash : Boolean ) : AnsiString
6586: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6587: Function StIsDirectory( const DirName : AnsiString ) : Boolean
6588: Function IsDirectoryEmpty( const S : AnsiString ) : Integer
6589: Function IsDriveReady( Drive : Char ) : Boolean
6590: Function IsFile( const FileName : AnsiString ) : Boolean
6591: Function IsFileArchive( const S : AnsiString ) : Integer
6592: Function IsFileHidden( const S : AnsiString ) : Integer
6593: Function IsFileReadOnly( const S : AnsiString ) : Integer
6594: Function IsFileSystem( const S : AnsiString ) : Integer
6595: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6596: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char ) : Cardinal
6597: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean
6598: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6599: Procedure SplitPath( const APath : AnsiString; Parts : TStrings )
6600: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6601: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint
6602: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec
6603: Function ValidDrive( Drive : Char ) : Boolean
6604: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6605:
6606: //*****unit uPSI_JclLANMan;*****
6607: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6608: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6609: Function DeleteAccount( const Servername, Username : string ) : Boolean
6610: Function DeleteLocalAccount( Username : string ) : Boolean
6611: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6612: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6613: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6614: Function GetLocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6615: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6616: Function LocalGroupExists( const Group : string ) : Boolean
6617: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6618: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6619: Function LookupGroupName( const Server : string; const RID : TNNetWellKnownRID ) : string
6620: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6621: Function IsLocalAccount( const AccountName : string ) : Boolean
6622: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6623: Function GetRandomString( NumChar : cardinal ) : string
6624:
6625: //*****unit uPSI_cUtils;*****
6626: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )'
6627: Function cIsWinNT : boolean
6628: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,
  Multitasking:Boolean;
6629: Function cExecutefile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6630: Function cRunAndGetOutput( Cmd,WorkDir:string; ErrFunc:TErrorFunc; LineOutputFunc:TLineOutputFunc;
  CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean ) : string
6631: Function cGetShortName( FileName : string ) : string
6632: Procedure cShowError( Msg : String )
6633: Function cCommaStrToStr( s : string; formatstr : string ) : string
6634: Function cIncludeQuoteIfSpaces( s : string ) : string
6635: Function cIncludeQuoteIfNeeded( s : string ) : string
6636: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6637: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6638: Function cBuildFilter( var value : string; const FLTStyle : TFILEFILTERSET ) : boolean;
6639: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6640: Function cCodeInstoStr( s : string ) : string
6641: Function cStrtoCodeIns( s : string ) : string
6642: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6643: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6644: Procedure cStrToPoint( var pt : TPoint; value : string )
6645: Function cPointtoStr( const pt : TPoint ) : string
6646: Function cListtoStr( const List : TStrings ) : string
6647: Function ListtoStr( const List : TStrings ) : string
6648: Procedure StrToList( s : string; const List : TStrings; const delimiter : char )
6649: Procedure cStrToList( s : string; const List : TStrings; const delimiter : char )
6650: Function cGetFileType( const FileName : string ) : TUnitType
6651: Function cGetExTyp( const FileName : string ) : TExUnitType
6652: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6653: Function cExpandFileto( const FileName : string; const basePath : string ) : string
6654: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6655: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6656: Function cGetLastPos( const SubStr : string; const S : string ) : integer
6657: Function cGenMakePath( FileName : string ) : string
6658: Function cGenMakePath2( FileName : string ) : string
6659: Function cGenMakePath1( FileName : string; EscapeSpaces, EncloseInQuotes : Boolean ) : string;

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6660: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6661: Function cCalcMod( Count : Integer ) : Integer
6662: Function cGetVersionString( FileName : string ) : string
6663: Function cCheckChangeDir( var Dir : string ) : boolean
6664: Function cGetAssociatedProgram( const Extension:string; var Filename,Description: string):boolean
6665: Function cIsNumeric( s : string ) : boolean
6666: Procedure StrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6667: Function AttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6668: Function GetFileType( const FileName : string ) : TUnitType
6669: Function Atoi(const aStr: string): integer
6670: Function Itoa(const aint: integer): string
6671:
6672:
6673: procedure SIRegister_cHTTPUtils(CL: TPSPascalCompiler);
6674: begin
6675:   FindClass('TOBJECT'), 'EHTTP
6676:   FindClass('TOBJECT'), 'EHTTPParser
6677:   //AnsiCharSet', 'set of AnsiChar
6678:   AnsiStringArray', 'array of AnsiString
6679:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6680:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6681:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'
6682:   +'TPPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6683:   +'CustomMinVersion : Integer; end
6684:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6685:   +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6686:   +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6687:   +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6688:   +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6689:   +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6690:   +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6691:   +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6692:   +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6693:   +'nection, hntOrigin, hntKeepAlive )
6694:   THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6695:   THTTPCustomHeader', 'record FieldName : AnsiString; FieldValue :'
6696:   +' AnsiString; end
6697: //^THTTPCustomHeader', '^THTTPCustomHeader // will not work
6698: THTTPContentLengthEnum', '( hcNone, hcLength )
6699: THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6700: //^THTTPContentLength', '^THTTPContentLength // will not work
6701: THTTPContentTypeMajor', '( htmCustom, htmText, htmImage )
6702: THTTPContentTypeEnum', '( hcNone, hcCustomParts, hcCustomStri'
6703:   +'ng, hctTextHtml, hctTextAscii, hctTextCss, hctTextPlain, hctTextXml, hctTe'
6704:   +'xtCustom, hctImageJpeg, hctImagePng, hctImageGif, hctImageCustom, hctAppli'
6705:   +'cationJSON, hctApplicationOctetStream, hctApplicationJavaScript, hctAppli'
6706:   +'ctionCustom, hctAudioCustom, hctVideoCustom )
6707: THTTPContentType', 'record Value : THTTPContentTypeEnum; CustomM'
6708:   +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6709:   +'CustomStr : AnsiString; end
6710: THTTPDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )
6711: THTTPDateField', 'record Value : THTTPDatefieldEnum; DayOfWeek :'
6712:   +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6713:   +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6714:   +'String; DateTime : TDateTime; Custom : AnsiString; end
6715: THTTPTransferEncodingEnum', '( hteNone, hteCustom, htechunked )
6716: THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnu'
6717:   +'m; Custom : AnsiString; end
6718: THTTPConnectionFieldEnum', '( hcfNone, hcfCustom, hcfClose, hcfKeepAlive )
6719: THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6720:   +' Custom : AnsiString; end
6721: THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )
6722: THTTPAgeField', 'record Value : THTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6723: THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )
6724: THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6725:   +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )
6726: THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6727:   +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6728:   +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )
6729: THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end
6730: THTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6731:   +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )
6732: THTTPContentEncoding', 'record Value:THTTPContentEncodingEnum;Custom:AnsiString; end;
6733: THTTPContentEncodingFieldEnum', '( hcefNone, hcefList )
6734: THTTPContentEncodingField', 'record Value : THTTPContentEncoding'
6735:   +'FieldEnum; List : array of THTTPContentEncoding; end
6736: THTTPRetryAfterFieldEnum', '( harfNone, harfCustom, harfDate, harfSeconds )
6737: THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum; '
6738:   +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6739: THTTPContentRangeFieldEnum', '( hcrfNone, hcrfCustom, hcrfByteRange )
6740: THTTPContentRangeField', 'record Value : THTTPContentRangeFieldE'
6741:   +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6742: THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )
6743: THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end
6744: THTTPSetCookieCustomFieldArray', 'array of THTTPSetCookieCustomField
6745: THTTPSetCookieField', 'record Value : THTTPSetCookieFieldEnum; D'
6746:   +'omain : AnsiString; Path : AnsiString; Expires : THTTPDateField; MaxAge : '
6747:   +'Int64; HttpOnly : Boolean; Secure : Boolean; CustomFields : THTTPSetCookie'
6748:   +'CustomFieldArray; Custom : AnsiString; end

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6749: //PHTTSetCookieField', '^THTTSetCookieField // will not work
6750: THTTSetCookieFieldArray', 'array of THTTSetCookieField
6751: THTTPCookieFieldEnum', '( hcoNone, hcoDecoded, hcoCustom )
6752: THTTPCookieFieldEntry', 'record Name : AnsiString; Value : AnsiString; end
6753: //PHTTPCookieFieldEntry', '^THTTPCookieFieldEntry // will not work
6754: THTTPCookieFieldEntryArray', 'array of THTTPCookieFieldEntry
6755: THTTPCookieField', 'record Value : THTTPCookieFieldEnum; Entries'
6756: '+' : THTTPCookieFieldEntryArray; Custom : AnsiString; end
6757: THTTPCommonHeaders', 'record TransferEncoding : THTTPTransferEnc;
6758: +'oding; ContentType : THTTPContentType; ContentLength : THTTPContentLength;''
6759: +' Connection : THTTConnectionField; ProxyConnection : THTTConnectionField'
6760: +' Date : THTTDateField; ContentEncoding : THTTPContentEncoding; end
6761: THTTPCustomHeaders', 'array of THTTPCustomHeader
6762: //THTTFFixedHeaders', 'array[THTTHeaderNameEnum] of AnsiString
6763: THTTFFixedHeaders', 'array[0..42] of AnsiString
6764: THTTPMethodEnum', '( hmNone, hmCustom, hmGET, hmPUT, hmPOST, hmC'
6765: +'ONNECT, hmHEAD, hmDELETE, hmOPTIONS, hmTRACE )'
6766: THTTPMethod', 'record Value : THTTPMethodEnum; Custom : AnsiString; end
6767: THTTPRequestStartLine', 'record Method : THTTPMethod; URI : AnsiString; Version : THTTPVersion; end
6768: THTTPRequestHeader', 'record CommonHeaders : THTTPCommonHeaders;
6769: +' FixedHeaders : THTTFFixedHeaders; CustomHeaders : THTTPCustomHeaders; Coo'
6770: +'kie : THTTPCookieField; IfModifiedSince : THTTDateField; IfUnmodifiedSince : THTTDateField; end
6771: //PHTTPRequestHeader', '^THTTPRequestHeader // will not work
6772: THTTPRequest', 'record StartLine : THTTPRequestStartLine; Header'
6773: +' : THTTPRequestHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6774: THTTPResponseStartLineMessage', '( hslnNone, hslnCustom, hslnOK)
6775: THTTPResponseStartLine', 'record Version : THTTPVersion; Code : '
6776: +' Integer; Msg : THTTPResponseStartLineMessage; CustomMsg : AnsiString; end
6777: THTTPResponseHeader', 'record CommonHeaders : THTTPCommonHeaders'
6778: +' ; FixedHeaders : THTTFFixedHeaders; CustomHeaders : THTTPCustomHeaders; Co'
6779: +'okies : THTTSetCookieFieldArray; Expires : THTTDateField; LastModified : '
6780: +' THTTDateField; Age : THTTPageField; end
6781: //PHTTPResponseHeader', '^THTTPResponseHeader // will not work
6782: THTTPResponse', 'record StartLine : THTTPResponseStartLine; Head'
6783: +'er : THTTPResponseHeader; HeaderComplete : Boolean; HasContent : Boolean; end
6784: Function HTTMessageHasContent( const H : THTTPCommonHeaders ) : Boolean
6785: Procedure InitHTTPRequest( var A : THTTPRequest )
6786: Procedure InitHTTPResponse( var A : THTTPResponse )
6787: Procedure ClearHTTPVersion( var A : THTTPVersion )
6788: Procedure ClearHTTPContentLength( var A : THTTPContentLength )
6789: Procedure ClearHTTPContentType( var A : THTTPContentType )
6790: Procedure ClearHTTPDateField( var A : THTTDateField )
6791: Procedure ClearHTTPTTransferEncoding( var A : THTTPTransferEncoding )
6792: Procedure ClearTHTTConnectionField( var A : THTTConnectionField )
6793: Procedure ClearTHTTPageField( var A : THTTPageField )
6794: Procedure ClearHTTPContentEncoding( var A : THTTPContentEncoding )
6795: Procedure ClearHTTPContentEncodingField( var A : THTTPContentEncodingField )
6796: Procedure ClearHTTPContentRangeField( var A : THTTPContentRangeField )
6797: Procedure ClearTHTTSetCookieField( var A : THTTSetCookieField )
6798: Procedure ClearTHTTCommonHeaders( var A : THTTPCommonHeaders )
6799: //Procedure ClearTHTTFFixedHeaders( var A : THTTFFixedHeaders )
6800: Procedure ClearTHTTCustomHeaders( var A : THTTPCustomHeaders )
6801: Procedure ClearTHTTCookieField( var A : THTTPCookieField )
6802: Procedure ClearTHTTPMethod( var A : THTTPMethod )
6803: Procedure ClearTHTTPRequestStartLine( var A : THTTPRequestStartLine )
6804: Procedure ClearTHTTPRequestHeader( var A : THTTPRequestHeader )
6805: Procedure ClearTHTTPRequest( var A : THTTPRequest )
6806: Procedure ClearTHTTPResponseStartLine( var A : THTTPResponseStartLine )
6807: Procedure ClearTHTTPResponseHeader( var A : THTTPResponseHeader )
6808: Procedure ClearTHTTPResponse( var A : THTTPResponse )
6809: THTTStringOption', '( hsoNone )
6810: THTTStringOptions', 'set of THTTStringOption
6811: FindClass('TOBJECT'), 'TAnsiStringBuilder
6812:
6813: Procedure BuildStrHTTPVersion( const A : THTTPVersion; const B : TAnsiStringBuilder; P : THTTStringOptions );
6814: Procedure BuildStrHTTPContentLengthValue( const
A : THTTPContentLength; B : TAnsiStringBuilder; P : THTTStringOptions )
6815: Procedure BuildStrHTTPContentLength( const A : THTTPContentLength;
B : TAnsiStringBuilder; P : THTTStringOptions )
6816: Procedure BuildStrHTTPContentTypeValue( const A : THTTPContentType; B : TAnsiStringBuilder; const
P : THTTStringOptions )
6817: Procedure BuildStrHTTPContentType( const A : THTTPContType; const B : TAnsiStringBuilder; const
P : THTTStringOptions )
6818: Procedure BuildStrRFCDateTime( const DOW, Da, Mo, Ye, Ho, Mi, Se : Integer; const TZ : AnsiString; const
B : TAnsiStringBuilder; const P : THTTStringOptions )
6819: Procedure BuildStrHTTPDateFieldValue( const A : THTTDateField; const B : TAnsiStringBuilder; const P :
THTTStringOptions )
6820: Procedure BuildStrHTTPDateField( const A : THTTDateField; const B : TAnsiStringBuilder; const
P : THTTStringOptions );
6821: Procedure BuildStrHTTPTTransferEncodingValue( const A : THTTPTransferEncoding; const B :
TAnsiStringBuilder; const P : THTTStringOptions )
6822: Procedure BuildStrHTTPTTransferEncoding( const A : THTTPTransferEncoding; const B : TAnsiStringBuilder;
const P : THTTStringOptions )
6823: Procedure BuildStrHTTPContentRangeField( const A : THTTPContentRangeField; const B : TAnsiStringBuilder;
const P : THTTStringOptions )
6824: Procedure BuildStrHTTTPConnectionFieldValue( const A : THTTConnectionField; const B : TAnsiStringBuilder;
const P : THTTStringOptions )
6825: Procedure BuildStrHTTTPConnectionField( const A : THTTConnectionField; const B : TAnsiStringBuilder;
const P : THTTStringOptions )

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6826: Procedure BuildStrHTTPAgeField(const A:THTTPPageField;const B:TAnsiStringBuilder;const
6827: P:THTTPStringOptions);
6828: Procedure BuildStrHTTPContentEncoding(const A : THTTPContentEncoding; const B : TAnsiStringBuilder;
6829: const P : THTTPStringOptions)
6830: Procedure BuildStrHTTPContentEncodingField(const A:THTTPContentEncodingField;const
6831: B:TAnsiStringBuilder;const P:THTTPStringOptions)
6832: Procedure BuildStrHTTPProxyConnectionField(const A : THTTPProxyConnectionField; const B : TAnsiStringBuilder;
6833: const P : THTTPStringOptions)
6834: Procedure BuildStrHTTPCommonHeaders(const A : THTTPCommonHeaders; const B : TAnsiStringBuilder; const P
6835: : THTTPStringOptions)
6836: Procedure BuildStrHTTPFixedHeaders(const A:THTTPFixedHeaders;const B:TAnsiStrBuilder;const
6837: P:THTTPStringOptions)
6838: Procedure BuildStrHTTPCustomHeaders(const A : THTTPCustomHeaders; const B : TAnsiStringBuilder; const P
6839: : THTTPStringOptions)
6840: Procedure BuildStrHTTPSetCookieFieldValue(const A : THTTPSetCookieField; const B : TAnsiStringBuilder;
6841: const P : THTTPStringOptions)
6842: Procedure BuildStrHTTPCookieFieldValue(const A : THTTPCookieField; const B : TAnsiStringBuilder; const P
6843: : THTTPStringOptions)
6844: Procedure BuildStrHTTPCookieField(const A:THTTPCookieField;const B:TAnsiStrBuilder;const
6845: P:THTTPStringOptions);
6846: Procedure BuildStrHTTPRequest(const A : THTTPRequest; const B : TAnsiStringBuilder; const P :
6847: THTTPStringOptions)
6848: Procedure BuildStrHTTPResponseCookieFieldArray(const A : THTTPSetCookieFieldArray; const B :
6849: TAnsiStringBuilder; const P : THTTPStringOptions)
6850: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P
6851: THTTPStrOptions);
6852: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const
6853: P:THTTPStringOptions);
6854: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const
6855: P:THTTPStringOptions);
6856: Function HTTPContentTypeValueToStr(const A : THTTPContentType) : AnsiString
6857: Function HTTPSetCookieFieldValueToStr(const A : THTTPSetCookieField) : AnsiString
6858: Function HTTPCookieFieldValueToStr(const A : THTTPCookieField) : AnsiString
6859: Function HTTPMethodToStr(const A : THTTPMethod) : AnsiString
6860: Function HTTPRequestToStr(const A : THTTPRequest) : AnsiString
6861: Function HTTPResponseToStr(const A : THTTPResponse) : AnsiString
6862: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const
6863: Domain:AnsiString;const Secure:Bool; THTTPParserHeaderParseFunc', 'Function (const HeaderName : THTT'
6864: +PHeaderNameEnum; const HeaderPtr : __Pointer) : Boolean
6865: SIRegister_THTTPParser(CL);
6866: FindClass('TOBJECT','THTTPContentDecoder')
6867: THTTPContentDecoderProc', 'Procedure (const Sender : THTTPContentDecoder)
6868: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6869: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6870: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6871: THTTPContentDecoderLogEvent', 'Procedure (const Sender : THTTPContentDecoder; const LogMsg : String)
6872: SIRegister_THTTPContentDecoder(CL);
6873: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6874: FindClass('TOBJECT','THTTPContentReader')
6875: THTTPContentReaderProc', 'Procedure (const Sender : THTTPContentReader)
6876: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const
6877: LogLevel:Int;
6878: SIRegister_THTTPContentReader(CL);
6879: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6880: FindClass('TOBJECT','THTTPContentWriter')
6881: THTTPContentWriterLogEvent', 'Procedure (const Sender : THTTPContentWriter;const LogMsg:AnsiString);
6882: SIRegister_THTTPContentWriter(CL);
6883: Procedure SelfTestcHTTPUtils
6884: end;
6885: (*-----*)
6886: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6887: begin
6888: 'TLSlibraryVersion', 'String '1.00
6889: 'TLSerror_None', 'LongInt'( 0 );
6890: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6891: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6892: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6893: 'TLSerror_InvalidState', 'LongInt'( 4 );
6894: 'TLSerror_DecodeError', 'LongInt'( 5 );
6895: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6896: Function TLSErrorMessage( const TLSError : Integer ) : String
6897: SIRegister_ETLSError(CL);
6898: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6899: PTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6900: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion )
6901: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion )
6902: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion )
6903: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion )
6904: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6905: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6906: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6907: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean

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6895: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6896: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6897: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6898: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6899: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6900: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6901: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6902: Function TLSSessionIDMaxLen( const A : TTLSProtocolVersion ) : String
6903: Function TLSSessionIDToString( const A : TTLSProtocolVersion ) : String
6904: PTLSRandom', '^TTLSSessionID // will not work
6905: Procedure InitTLSRandom( var Random : TTLSSessionID )
6906: Function TTLSSessionIDToString( const Random : TTLSSessionID ) : AnsiString
6907: 'TTLSSessionIDMaxLen', 'LongInt'( 32 );
6908: Procedure InitTLSSessionID( var SessionID : TTLSSessionID; const A : AnsiString )
6909: Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TTLSSessionID):Int;
6910: Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TTLSSessionID):Int;
6911: TTLSHashAlgorithm', 'record Hash : TTLSHashAlgorithm'
6912: +' ; Signature : TTLSHashAlgorithm; end
6913: // TTLSHashAlgorithm', '^TTLSHashAlgorithm +'// will not work
6914: TTLSHashAlgorithmArray', 'array of TTLSHashAlgorithm
6915: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_'
6916: +'DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )'
6917: TTLSMACAlgorithm', '( tlsmNone, tlsmNULL, tlsm HMAC_MD5, tlsm'
6918: +' HMAC_SHA1, tlsm HMAC SHA256, tlsm HMAC SHA384, tlsm HMAC SHA512 )'
6919: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6920: +'nteger; Supported : Boolean; end
6921: PTLSMacAlgorithmInfo', '^TTLSMacAlgorithmInfo // will not work
6922: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );
6923: TTLSPRFAlgorithm', '( tlspSHA256 )
6924: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6925: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6926: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6927: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6928: Function tlsp1OPRF( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6929: Function tlsp1OPRF_SHA256( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6930: Function tlsp1OPRF_SHA512( const Secret, ALLabel, Seed : AnsiString; const Size : Integer ) : AnsiString
6931: Function TLSOPRF( const ProtoVersion:TTLSProtocolVersion;const Secret,ALLabel,Seed:AString;const
Size:Int):AString;
6932: Function tlsp10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
Size:Int):AnsiString
6933: Function tlsp12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6934: Function tlsp12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):AnsiString;
6935: Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6936: Function tlsp10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6937: Function tlsp12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6938: Function tlsp12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6939: Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
ServerRandom:AnsiString ) : AnsiString
6940: 'TLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6941: +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6942: +'AnsiString; ClientIV : AnsiString; ServerIV : AnsiString; end
6943: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys )
6944: Procedure GenerateFinalTLSKeys( const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys )
6945: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1 );
6946: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024 );
6947: Procedure SelfTestcTLSUtils
6948: end;
6949:
6950: (*-----*)
6951: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6952: begin
6953:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal : integer;
disks : integer; mx : integer; my : integer; end
6954: // pBoard', '^tBoard // will not work
6955: Function rCalculateData( cc : byte; cx, cy : integer ) : sPosData
6956: Function rCheckMove( color : byte; cx, cy : integer ) : integer
6957: //Function rDoStep( data : pBoard ) : word
6958: Function winExecAndWait( const sAppPath : string; wVisible : word ) : boolean
6959: end;
6960:
6961: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6962: begin
6963: Function InEditMode( ADataset : TDataset ) : Boolean
6964: Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
6965: Function CheckDataSource1( ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
6966: Function GetFieldText( AField : TField ) : String
6967: end;
6968:
6969: procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
6970: begin
6971:   TPrintMode', '( pmPrint, pmPreview, pmPageCount )
6972:   TMyPrintRange', '( prAll, prSelected )
6973:   TSortStyle', '( ssAutomatic, ssNormal, ssNumeric, ssNumericExten'
6974:   +'ded, ssDateTime, ssTime, ssCustom )

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6975: TSortDirection', '( sdAscending, sdDescending )
6976: TSetChecked', 'Procedure ( Sender : TObject; ACol, ARow : integer; State : Boolean)
6977: TGetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer'
6978:   +'er; var Strs : TStringList; var Width, Height : integer; var Sorted : Boolean)
6979: TSetCombobox', 'Procedure ( Sender : TObject; ACol, ARow : integer; Str : String)
6980: TSetEllipsis', 'Procedure ( Sender : TObject; ACol, ARow : integer)
6981: SIRegister_TSortOptions(CL);
6982: SIRegister_TPrintOptions(CL);
6983: TSortedListEntry', 'record Str : String; RowNum : integer; SortOption : TSortOptions; end
6984: SIRegister_TSortedList(CL);
6985: TCellBevelStyle', '( cbNone, cbRaised, cbLowered )
6986: TCellBevel', 'record Style: TCellBevelStyle; UpperLeftColor: TColor; LowerRightColor : TColor; end
6987: TVertAlignment', '( taTopJustify, taBottomJustify, taMiddle )
6988: TFormatOptions', 'record Brush : TBrush; Font : TFont; Alignment'
6989:   +'Horz : TAlignment; AlignmentVert : TVertAlignment; Bevel : TCellBevel; HideText : Boolean; end
6990: SIRegister_TFontSetting(CL);
6991: SIRegister_TFontList(CL);
6992: AddTypes(TFormatDrawCellEvent', 'Procedure ( Sender : TObject; Col, Row : '
6993:   +'integer;State:TGridDrawState;var FormatOptions:TFormatOptions;var CheckBox,Combobox,Ellipsis:Bool);
6994: TSetFilterEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
6995: TSearchEvent', 'Procedure ( ARows : TStrings; var Accept : Boolean)
6996: TUpdateGridEvent', 'Procedure ( Sender : TObject; ARow : integer)
6997: TSizeChangedEvent', 'Procedure ( Sender : TObject; OldColCount, OldRowCount : integer)
6998: TBeginSortEvent', 'Procedure ( Sender : TObject; var Col : integer)
6999: TEndSortEvent', 'Procedure ( Sender : TObject; Col : integer)
7000: TGetSortStyleEvent', 'Procedure ( Sender : TObject; Col : integer'
7001:   +'r; var SortStyle : TSORTStyle)
7002: TCellValidateEvent', 'Procedure ( Sender : TObject; ACol, ARow : '
7003:   +' integer; const OldValue : string; var NewValue : String; var Valid : Boolean)
7004: SIRegister_TSortGrid(CL);
7005: Function ExtendedCompare( const Str1, Str2 : String ) : Integer
7006: Function NormalCompare( const Str1, Str2 : String ) : Integer
7007: Function DateTimeCompare( const Str1, Str2 : String ) : Integer
7008: Function NumericCompare( const Str1, Str2 : String ) : Integer
7009: Function TimeCompare( const Str1, Str2 : String ) : Integer
7010: //Function Compare( Item1, Item2 : Pointer ) : Integer
7011: end;
7012:
7013: ***** procedure Register_IB(CL: TPPascalCompiler);
7014: Procedure IBAlloc( var P, OldSize, NewSize : Integer)
7015: Procedure IBEror( ErrMess : TIBClientError; const Args : array of const)
7016: Procedure IB DataBaseError
7017: Function StatusVector : PISC_STATUS
7018: Function StatusVectorArray : PStatusVector
7019: Function CheckStatusVector( ErrorCode : array of ISC_STATUS ) : Boolean
7020: Function StatusVectorAsText : string
7021: Procedure SetIB DataBaseErrorMessages( Value : TIB DataBaseErrorMessages)
7022: Function GetIB DataBaseErrorMessages : TIB DataBaseErrorMessages
7023:
7024:
7025: //*****unit uPSI_BoldUtils;*****
7026: Function CharCount( c : char; const s : string) : integer
7027: Function BoldNamesEqual( const name1, name2 : string ) : Boolean
7028: Procedure BoldAppendToStrings(strings: TStrings; const aString: string; const ForceNewLine:Boolean)
7029: Function BoldSeparateStringList(strings:TStringList;const Separator,PreString,PostString:String):String
7030: Function BoldSeparatedAppend( const S1, S2 : string; const Separator : string ) : string
7031: Function BoldTrim( const S : string ) : string
7032: Function BoldIsPrefix( const S, Prefix : string ) : Boolean
7033: Function BoldStrEqual( P1, P2 : PChar; Len : integer) : Boolean
7034: Function BoldStrAnsiEqual( P1, P2 : PChar; Len : integer) : Boolean
7035: Function BoldAnsiEqual( const S1, S2 : string ) : Boolean
7036: Function BoldStrStringEqual( const S1 : string; P2 : PChar; Len : integer ) : Boolean
7037: Function BoldCaseIndependentPos( const Substr, S : string ) : Integer
7038: //Procedure EnumToStrings( aTypeInfo : pTypeInfo; Strings : TStrings)
7039: Function CapitalisedToSpaced( Capitalised : String ) : String
7040: Function SpacedToCapitalised( Spaced : String ) : String
7041: Function BooleanToString( BoolValue : Boolean) : String
7042: Function StringToBoolean( StrValue : String ) : Boolean
7043: Function GetUpperLimitForMultiplicity( const Multiplicity : String ) : Integer
7044: Function GetLowerLimitForMultiplicity( const Multiplicity : String ) : Integer
7045: Function StringListToVarArray( List : TStringList ) : variant
7046: Function IsLocalMachine( const Machinename : WideString ) : Boolean
7047: Function GetComputerNameStr : string
7048: Function TimestampComp( const Time1, Time2 : TTimeStamp ) : Integer
7049: Function BoldStrToDateFmt( const S:string;const DateFormat:string;const DateSeparatorChar:char ):TDateTime
7050: Function BoldDateToStrFmt( const aDate:TDateTime;DateFormat:string;const DateSeparatorChar:char ):String;
7051: Function BoldParseFormattedDateList(const value:String;const formats:TStrings;var Date:TDateTime):Boolean;
7052: Function BoldParseFormattedDate(const value:String;const formats:array of string; var Date:TDateTime):Boolean;
7053: Procedure EnsureTrailing( var Str : String; ch : char)
7054: Function BoldDirectoryExists( const Name : string ) : Boolean
7055: Function BoldForceDirectories( Dir : string ) : Boolean
7056: Function BoldRootRegistryKey : string
7057: Function GetModuleFileNameAsString( IncludePath : Boolean) : string
7058: Function BoldVariantToStrings( V : OleVariant; Strings : TStrings ) : Integer
7059: Function LogicalAnd( A, B : Integer ) : Boolean
7060: record TByHandleFileInformation dwFileAttributes : DWORD;
7061:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7062:   +' : TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFileSize'

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7063:   +'eLow : DWORD; nNumberOfLinks : DWORD; nPageIndexHigh : DWORD; nPageIndexLow : DWORD; end
7064: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7065: Function IsFirstInstance : Boolean
7066: Procedure ActivateFirst( AString : PChar)
7067: Procedure ActivateFirstCommandLine
7068: function MakeAckPkt(const BlockNumber: Word): string;
7069: procedure SendError(UDPBase: TIdUDPBase; APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string;
7070: procedure SendError(UDPClient: TIdUDPClient; const ErrNumber: Word; ErrorString: string); overload;
7071: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7072: procedure SendError(UDPClient: TIdUDPClient; E: Exception); overload;
7073: function IdStrToWord(const Value: String): Word;
7074: function IdWordToStr(const Value: Word): WordStr;
7075: Function HasInstructionSet( const InstructionSet : TCPUInstructionSet ) : Boolean
7076: Function CPUFeatures : TCPUFeatures
7077:
7078: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7079: begin
7080:   AddTypeS('TXRTLBIndex', 'Integer'
7081:   Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBIndex ) : Cardinal
7082:   Function XRTLBIndexTest( Data : Cardinal; BitIndex : TXRTLBIndex ) : Boolean
7083:   Function XRTLBIndexSet( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal
7084:   Function XRTLBIndexReset( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal
7085:   Function XRTLBIndexComplement( Data : Cardinal; BitIndex : TXRTLBIndex ) : Cardinal
7086:   Function XRTLSwapHiLo16( X : Word ) : Word
7087:   Function XRTLSwapHiLo32( X : Cardinal ) : Cardinal
7088:   Function XRTLSwapHiLo64( X : Int64 ) : Int64
7089:   Function XRTLROL32( A, S : Cardinal ) : Cardinal
7090:   Function XRTLROLR32( A, S : Cardinal ) : Cardinal
7091:   Function XRTLROL16( A : Word; S : Cardinal ) : Word
7092:   Function XRTLROLR16( A : Word; S : Cardinal ) : Word
7093:   Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7094:   Function XRTLROLR8( A : Byte; S : Cardinal ) : Byte
7095: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7096: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7097: Procedure XRTLUMul64( const A, B : Integer; var Mull, MulH : Integer )
7098: Function XRTLPopulation( A : Cardinal ) : Cardinal
7099: end;
7100:
7101: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7102: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7103: Function XRTLURINormalize( const AURI : WideString ) : WideString
7104: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
    VPassword : WideString)
7105: Function XRTLExtractLongPathName(APath: string): string;
7106:
7107: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7108: begin
7109:   AddTypeS('Int8', 'ShortInt
7110:   AddTypeS('Int16', 'SmallInt
7111:   AddTypeS('Int32', 'LongInt
7112:   AddTypeS('UInt8', 'Byte
7113:   AddTypeS('UInt16', 'Word
7114:   AddTypeS('UInt32', 'LongWord
7115:   AddTypeS('UInt64', 'Int64
7116:   AddTypeS('Word8', 'UInt8
7117:   AddTypeS('Word16', 'UInt16
7118:   AddTypeS('Word32', 'UInt32
7119:   AddTypeS('Word64', 'UInt64
7120:   AddTypeS('LargeInt', 'Int64
7121:   AddTypeS('NativeInt', 'Integer
7122:   AddTypeS('NativeUInt', 'Cardinal
7123:   Const('BitsPerByte','LongInt'( 8 );
7124:   Const('BitsPerWord','LongInt'( 16 );
7125:   Const('BitsPerLongWord','LongInt'( 32 );
7126: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7127: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7128: Function MinI( const A, B : Integer ) : Integer
7129: Function MaxI( const A, B : Integer ) : Integer
7130: Function MinC( const A, B : Cardinal ) : Cardinal
7131: Function MaxC( const A, B : Cardinal ) : Cardinal
7132: Function SumClipI( const A, I : Integer ) : Integer
7133: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7134: Function InByteRange( const A : Int64 ) : Boolean
7135: Function InWordRange( const A : Int64 ) : Boolean
7136: Function InLongWordRange( const A : Int64 ) : Boolean
7137: Function InShortIntRange( const A : Int64 ) : Boolean
7138: Function InSmallIntRange( const A : Int64 ) : Boolean
7139: Function InLongIntRange( const A : Int64 ) : Boolean
7140: AddTypeS('Bool8', 'ByteBool
7141: AddTypeS('Bool16', 'WordBool
7142: AddTypeS('Bool32', 'LongBool
7143: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7144: AddTypeS('TCompareResultSet', 'set of TCompareResult
7145: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7146: Const('MinSingle','Single').setExtended( 1.5E-45 );
7147: Const('MaxSingle','Single').setExtended( 3.4E+38 );
7148: Const('MinDouble','Double').setExtended( 5.0E-324 );
7149: Const('MaxDouble','Double').setExtended( 1.7E+308 );
7150: Const('MinExtended','Extended').setExtended(3.4E-4932 );

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7151: Const('MaxExtended','Extended').setExtended(1.1E+4932);
7152: Const('MinCurrency','Currency').SetExtended(-922337203685477.5807);
7153: Const('MaxCurrency','Currency').SetExtended(922337203685477.5807);
7154: Function MinF(const A, B : Float) : Float
7155: Function MaxF(const A, B : Float) : Float
7156: Function ClipF(const Value : Float; const Low, High : Float) : Float
7157: Function InSingleRange(const A : Float) : Boolean
7158: Function InDoubleRange(const A : Float) : Boolean
7159: Function InCurrencyRange(const A : Float) : Boolean;
7160: Function InCurrencyRangel(const A : Int64) : Boolean;
7161: Function FloatExponentBase2(const A : Extended; var Exponent : Integer) : Boolean
7162: Function FloatExponentBase10(const A : Extended; var Exponent : Integer) : Boolean
7163: Function FloatIsInfinity(const A : Extended) : Boolean
7164: Function FloatIsNaN(const A : Extended) : Boolean
7165: Const('SingleCompareDelta','Extended').setExtended(1.0E-34);
7166: Const('DoubleCompareDelta','Extended').setExtended(1.0E-280);
7167: Const('ExtendedCompareDelta','Extended').setExtended(1.0E-4400);
7168: Const('DefaultCompareDelta','Extended').SetExtended(1.0E-34);
7169: Function FloatZero(const A : Float; const CompareDelta : Float) : Boolean
7170: Function FloatOne(const A : Float; const CompareDelta : Float) : Boolean
7171: Function FloatsEqual(const A, B : Float; const CompareDelta : Float) : Boolean
7172: Function FloatsCompare(const A, B : Float; const CompareDelta : Float) : TCompareResult
7173: Const('SingleCompareEpsilon','Extended').setExtended(1.0E-5);
7174: Const('DoubleCompareEpsilon','Extended').setExtended(1.0E-13);
7175: Const('ExtendedCompareEpsilon','Extended').setExtended(1.0E-17);
7176: Const('DefaultCompareEpsilon','Extended').setExtended(1.0E-10);
7177: Function ApproxEqual(const A, B : Extended; const CompareEpsilon : Double) : Boolean
7178: Function ApproxCompare(const A, B : Extended; const CompareEpsilon : Double) : TCompareResult
7179: Function cClearBit(const Value, BitIndex : LongWord) : LongWord
7180: Function cSetBit(const Value, BitIndex : LongWord) : LongWord
7181: Function cIsBitSet(const Value, BitIndex : LongWord) : Boolean
7182: Function cToggleBit(const Value, BitIndex : LongWord) : LongWord
7183: Function cIsHighBitSet(const Value : LongWord) : Boolean
7184: Function SetBitScanForward(const Value : LongWord) : Integer;
7185: Function SetBitScanForward1(const Value, BitIndex : LongWord) : Integer;
7186: Function SetBitScanReverse(const Value : LongWord) : Integer;
7187: Function SetBitScanReverse1(const Value, BitIndex : LongWord) : Integer;
7188: Function ClearBitScanForward(const Value : LongWord) : Integer;
7189: Function ClearBitScanForward1(const Value, BitIndex : LongWord) : Integer;
7190: Function ClearBitScanReverse(const Value : LongWord) : Integer;
7191: Function ClearBitScanReverse1(const Value, BitIndex : LongWord) : Integer;
7192: Function cReverseBits(const Value : LongWord) : LongWord;
7193: Function cReverseBts1(const Value : LongWord; const BitCount : Integer) : LongWord;
7194: Function cSwapEndian(const Value : LongWord) : LongWord
7195: Function cTwosComplement(const Value : LongWord) : LongWord
7196: Function RotateLeftBits16(const Value : Word; const Bits : Byte) : Word
7197: Function RotateLeftBits32(const Value : LongWord; const Bits : Byte) : LongWord
7198: Function RotateRightBits16(const Value : Word; const Bits : Byte) : Word
7199: Function RotateRightBits32(const Value : LongWord; const Bits : Byte) : LongWord
7200: Function cBitCount(const Value : LongWord) : LongWord
7201: Function cIsPowerOfTwo(const Value : LongWord) : Boolean
7202: Function LowbitMask(const HighBitIndex : LongWord) : LongWord
7203: Function HighBitMask(const LowBitIndex : LongWord) : LongWord
7204: Function RangeBitMask(const LowBitIndex, HighBitIndex : LongWord) : LongWord
7205: Function SetBitRange(const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord
7206: Function ClearBitRange(const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord
7207: Function ToggleBitRange(const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord
7208: Function IsBitRangeSet(const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7209: Function IsBitRangeClear(const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7210: // AddTypeS('CharSet', 'set of AnsiChar'
7211: AddTypeS('CharSet', 'set of Char' //!!!
7212: AddTypeS('AnsiCharSet', 'TCharSet'
7213: AddTypeS('ByteSet', 'set of Byte'
7214: AddTypeS('AnsiChar', 'Char'
7215: // Function AsCharSet(const C : array of AnsiChar) : CharSet
7216: Function AsByteSet(const C : array of Byte) : ByteSet
7217: Procedure ComplementChar(var C : CharSet; const Ch : Char)
7218: Procedure ClearCharSet(var C : CharSet)
7219: Procedure FillCharSet(var C : CharSet)
7220: Procedure ComplementCharSet(var C : CharSet)
7221: Procedure AssignCharSet(var DestSet : CharSet; const SourceSet : CharSet)
7222: Procedure Union(var DestSet : CharSet; const SourceSet : CharSet)
7223: Procedure Difference(var DestSet : CharSet; const SourceSet : CharSet)
7224: Procedure Intersection(var DestSet : CharSet; const SourceSet : CharSet)
7225: Procedure XORCharSet(var DestSet : CharSet; const SourceSet : CharSet)
7226: Function IsSubSet(const A, B : CharSet) : Boolean
7227: Function IsEqual(const A, B : CharSet) : Boolean
7228: Function IsEmpty(const C : CharSet) : Boolean
7229: Function IsComplete(const C : CharSet) : Boolean
7230: Function cCharCount(const C : CharSet) : Integer
7231: Procedure ConvertCaseInsensitive(var C : CharSet)
7232: Function CaseInsensitiveCharSet(const C : CharSet) : CharSet
7233: Function IntRangeLength(const Low, High : Integer) : Int64
7234: Function IntRangeAdjacent(const Low1, High1, Low2, High2 : Integer) : Boolean
7235: Function IntRangeOverlap(const Low1, High1, Low2, High2 : Integer) : Boolean
7236: Function IntRangeHasElement(const Low, High, Element : Integer) : Boolean
7237: Function IntRangeIncludeElement(var Low, High : Integer; const Element : Integer) : Boolean
7238: Function IntRangeIncludeElementRange(var Low, High : Integer; const LowElement, HighElement : Integer) : Boolean
7239: Function CardRangeLength(const Low, High : Cardinal) : Int64

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7240: Function CardRangeAdjacent( const Low1, High1, Low2, High2 : Cardinal ) : Boolean
7241: Function CardRangeOverlap( const Low1, High1, Low2, High2 : Cardinal ) : Boolean
7242: Function CardRangeHasElement( const Low, High, Element : Cardinal ) : Boolean
7243: Function CardRangeIncludeElement( var Low, High : Cardinal; const Element : Cardinal ) : Boolean
7244: Function CardRangeIncludeElementRange(var Low,High:Card;const LowElement,HighElement:Card):Boolean;
7245: AddTypes('UnicodeChar', 'WideChar'
7246: Function Compare( const I1, I2 : Boolean ) : TCompareResult;
7247: Function Compare1( const I1, I2 : Integer ) : TCompareResult;
7248: Function Compare2( const I1, I2 : Int64 ) : TCompareResult;
7249: Function Compare3( const I1, I2 : Extended ) : TCompareResult;
7250: Function CompareA( const I1, I2 : AnsiString ) : TCompareResult
7251: Function CompareW( const I1, I2 : WideString ) : TCompareResult
7252: Function cSgn( const A : LongInt ) : Integer;
7253: Function cSgn1( const A : Int64 ) : Integer;
7254: Function cSgn2( const A : Extended ) : Integer;
7255: AddTypeS('TConvertResult', '( convertOK, convertFormatError, convertOverflow )'
7256: Function AnsiCharToInt( const A : AnsiChar ) : Integer
7257: Function WideCharToInt( const A : WideChar ) : Integer
7258: Function CharToInt( const A : Char ) : Integer
7259: Function IntToAnsiChar( const A : Integer ) : AnsiChar
7260: Function IntToWideChar( const A : Integer ) : WideChar
7261: Function IntToChar( const A : Integer ) : Char
7262: Function IsHexAnsiChar( const Ch : AnsiChar ) : Boolean
7263: Function IsHexWideChar( const Ch : WideChar ) : Boolean
7264: Function IsHexChar( const Ch : Char ) : Boolean
7265: Function HexAnsiCharToInt( const A : AnsiChar ) : Integer
7266: Function HexWideCharToInt( const A : WideChar ) : Integer
7267: Function HexCharToInt( const A : Char ) : Integer
7268: Function IntToUpperHexAnsiChar( const A : Integer ) : AnsiChar
7269: Function IntToUpperHexWideChar( const A : Integer ) : WideChar
7270: Function IntToUpperHexChar( const A : Integer ) : Char
7271: Function IntToLowerHexAnsiChar( const A : Integer ) : AnsiChar
7272: Function IntToLowerHexWideChar( const A : Integer ) : WideChar
7273: Function IntToLowerHexChar( const A : Integer ) : Char
7274: Function IntToStringA( const A : Int64 ) : AnsiString
7275: Function IntToStringW( const A : Int64 ) : WideString
7276: Function IntToString( const A : Int64 ) : String
7277: Function UIntToStringA( const A : NativeUInt ) : AnsiString
7278: Function UIntToStringW( const A : NativeUInt ) : WideString
7279: Function UIntToString( const A : NativeUInt ) : String
7280: Function LongWordToStrA( const A : LongWord; const Digits : Integer ) : AnsiString
7281: Function LongWordToStrW( const A : LongWord; const Digits : Integer ) : WideString
7282: Function LongWordToStrU( const A : LongWord; const Digits : Integer ) : UnicodeString
7283: Function LongWordToStr( const A : LongWord; const Digits : Integer ) : String
7284: Function LongWordToHexA(const A:LongWord;const Digits:Integer;const UpperCase:Boolean):AnsiString;
7285: Function LongWordToHexW(const A:LongWord;const Digits:Integer;const UpperCase:Boolean):WideString;
7286: Function LongWordToHex( const A : LongWord; const Digits : Integer;const UpperCase:Boolean):String
7287: Function LongWordToOctA( const A : LongWord; const Digits : Integer ) : AnsiString
7288: Function LongWordToOctW( const A : LongWord; const Digits : Integer ) : WideString
7289: Function LongWordToOct( const A : LongWord; const Digits : Integer ) : String
7290: Function LongWordToBinA( const A : LongWord; const Digits : Integer ) : AnsiString
7291: Function LongWordToBinW( const A : LongWord; const Digits : Integer ) : WideString
7292: Function LongWordToBin( const A : LongWord; const Digits : Integer ) : String
7293: Function TryStringToInt64A( const S : AnsiString; out A : Int64 ) : Boolean
7294: Function TryStringToInt64W( const S : WideString; out A : Int64 ) : Boolean
7295: Function TryStringToInt64( const S : String; out A : Int64 ) : Boolean
7296: Function StringToInt64DefA( const S : AnsiString; const Default : Int64 ) : Int64
7297: Function StringToInt64DefW( const S : WideString; const Default : Int64 ) : Int64
7298: Function StringToInt64Def( const S : String; const Default : Int64 ) : Int64
7299: Function StringToInt64A( const S : Ansistring ) : Int64
7300: Function StringToInt64W( const S : WideString ) : Int64
7301: Function StringToInt64( const S : String ) : Int64
7302: Function TryStringToIntA( const S : AnsiString; out A : Integer ) : Boolean
7303: Function TryStringToIntW( const S : WideString; out A : Integer ) : Boolean
7304: Function TryStringToInt( const S : String; out A : Integer ) : Boolean
7305: Function StringToIntDefA( const S : AnsiString; const Default : Integer ) : Integer
7306: Function StringToIntDefW( const S : WideString; const Default : Integer ) : Integer
7307: Function StringToIntDef( const S : String; const Default : Integer ) : Integer
7308: Function StringToIntA( const S : AnsiString ) : Integer
7309: Function StringToIntW( const S : WideString ) : Integer
7310: Function StringToInt( const S : String ) : Integer
7311: Function TryStringToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7312: Function TryStringToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7313: Function TryStringToLongWord( const S : String; out A : LongWord ) : Boolean
7314: Function StringToLongWordA( const S : AnsiString ) : LongWord
7315: Function StringToLongWordW( const S : WideString ) : LongWord
7316: Function StringToLongWord( const S : String ) : LongWord
7317: Function HexToUIntA( const S : AnsiString ) : NativeUInt
7318: Function HexToUIntW( const S : WideString ) : NativeUInt
7319: Function HexToUInt( const S : String ) : NativeUInt
7320: Function TryHexToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7321: Function TryHexToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7322: Function TryHexToLongWord( const S : String; out A : LongWord ) : Boolean
7323: Function HexToLongWordA( const S : AnsiString ) : LongWord
7324: Function HexToLongWordW( const S : WideString ) : LongWord
7325: Function HexToLongWord( const S : String ) : LongWord
7326: Function TryOctToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7327: Function TryOctToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7328: Function TryOctToLongWord( const S : String; out A : LongWord ) : Boolean

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7329: Function OctToLongWordA( const S : AnsiString ) : LongWord
7330: Function OctToLongWordW( const S : WideString ) : LongWord
7331: Function OctToLongWord( const S : String ) : LongWord
7332: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7333: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7334: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7335: Function BinToLongWordA( const S : AnsiString ) : LongWord
7336: Function BinToLongWordW( const S : WideString ) : LongWord
7337: Function BinToLongWord( const S : String ) : LongWord
7338: Function FloatToStringA( const A : Extended ) : AnsiString
7339: Function FloatToStringW( const A : Extended ) : WideString
7340: Function FloatToString( const A : Extended ) : String
7341: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7342: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7343: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7344: Function StringToFloatA( const A : AnsiString ) : Extended
7345: Function StringToFloatW( const A : WideString ) : Extended
7346: Function StringToFloat( const A : String ) : Extended
7347: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7348: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7349: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7350: Function EncodeBase64( const S:Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const PadChar: AnsiChar ) : AnsiString
7351: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7352: unit uPSI_cfFundamentUtils;
7353: Const('b64_MIMEBase64','Str').String('ABCDEFHIGHJKLNMOPQRSTUVWXYZabcdeffghijklmnopqrstuvwxyz0123456789/+');
7354: Const('b64_UUEncode','String').String('!"#$%&'!*+,.-./0123456789:;<>?@ABCDEFGHIJKLMOPQRSTUVWXYZ[\]^_');
7355: Const('b64_XXEncode','String').String('+0123456789ABCDEFGHIJKLMOPQRSTUVWXYZabcdeffghijklmnopqrstuvwxyz');
7356: Const('CCHARSET','Stringb64_XXEncode');
7357: Const('CHEXSET','String'0123456789ABCDEF
7358: Const('HEXDIGITS','String'0123456789ABCDEF
7359: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7360: Const('DIGISET','String'0123456789
7361: Const('LETTERSET','String'ABCDEFHIGHJKLNMOPQRSTUVWXYZ'
7362: Const('DIGISET2','TCharset').SetSet('0123456789'
7363: Const('LETTERSET2','TCharset').SetSet('ABCDEFHIGHJKLNMOPQRSTUVWXYZ'
7364: Const('HEXSET2','TCharset').SetSet('0123456789ABCDEF');
7365: Const('NUMBERSET','TCharset').SetSet('0123456789');
7366: Const('NUMBERS','String'0123456789');
7367: Const('LETTERS','String'ABCDEFHIGHJKLNMOPQRSTUVWXYZ');
7368: Function CharSetToStr( const C : CharSet ) : AnsiString
7369: Function StrToCharSet( const S : AnsiString ) : CharSet
7370: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7371: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7372: Function UUDecode( const S : AnsiString ) : AnsiString
7373: Function XXDecode( const S : AnsiString ) : AnsiString
7374: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7375: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7376: Function InterfaceToStrW( const I : IInterface ) : WideString
7377: Function InterfaceToStr( const I : IInterface ) : String
7378: Function ObjectClassName( const O : TObject ) : String
7379: Function ClassClassName( const C : TClass ) : String
7380: Function ObjectToStr( const O : TObject ) : String
7381: Function ObjectToString( const O : TObject ) : String
7382: Function CharSetToStr( const C : CharSet ) : AnsiString
7383: Function StrToCharSet( const S : AnsiString ) : CharSet
7384: Function HashStrA( const S : AnsiString; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7385: Function HashStrW( const S:WideString;const Index:Integer;const Count:Integer;const AsciiCaseSensitive:Boolean; const Slots:LongWord ) : LongWord
7386: Function HashStr( const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7387: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7388: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7389: Const('Bytes1KB','LongInt'( 1024 );
7390: SIRegister_IInterface(CL);
7391: Procedure SelfTestCFundamentUtils
7392:
7393: Function CreateSchedule : IJclSchedule
7394: Function NullStamp : TTimeStamp
7395: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7396: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7397: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7398:
7399: procedure SIRegister_uwinplot(CL: TPSCompiler);
7400: begin
7401: AddTypeS('TFunc', 'function(X : Float) : Float;
7402: Function InitGraphics( Width, Height : Integer ) : Boolean
7403: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
7404: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
7405: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
7406: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float )
7407: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float )
7408: Procedure SetGraphTitle( Title : String )
7409: Procedure SetOxTitle( Title : String )
7410: Procedure SetOyTitle( Title : String )
7411: Function GetGraphTitle : String
7412: Function GetOxTitle : String
7413: Function GetOyTitle : String

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7414: Procedure PlotOxAxis( Canvas : TCanvas)
7415: Procedure PlotOyAxis( Canvas : TCanvas)
7416: Procedure PlotGrid( Canvas : TCanvas; Grid : TGrid)
7417: Procedure WriteGraphTitle( Canvas : TCanvas)
7418: Function SetMaxCurv( NCurv : Byte) : Boolean
7419: Procedure SetPointParam( CurvIndex, Symbol, Size : Integer; Color : TColor)
7420: Procedure SetLineParam( CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor)
7421: Procedure SetCurvLegend( CurvIndex : Integer; Legend : String)
7422: Procedure SetCurvStep( CurvIndex, Step : Integer)
7423: Function GetMaxCurv : Byte
7424: Procedure GetPointParam( CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor)
7425: Procedure GetLineParam(CurvIndex:Integer;var Style:TPenStyle;var Width:Integer; var Color:TColor);
7426: Function GetCurvLegend( CurvIndex : Integer) : String
7427: Function GetCurvStep( CurvIndex : Integer) : Integer
7428: Procedure PlotPoint( Canvas : TCanvas; X, Y : Float; CurvIndex : Integer)
7429: Procedure PlotCurve( Canvas : TCanvas; X, Y : TVector; Lb, Ub, CurvIndex : Integer)
7430: Procedure PlotCurveWithErrorBars(Canvas : TCanvas; X,Y,S: TVector; Ns,Lb,Ub,CurvIndex:Integer)
7431: Procedure PlotFunc(Canvas: TCanvas; Func: TFunc; Xmin,Xmax: Float; Npt,CurvIndex: Integer)
7432: Procedure WriteLegend( Canvas : TCanvas; NCurv : Integer; ShowPoints, ShowLines : Boolean)
7433: Procedure ConRec( Canvas : TCanvas; Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
7434: Function Xpixel( X : Float) : Integer
7435: Function Ypixel( Y : Float) : Integer
7436: Function Xuser( X : Integer) : Float
7437: Function Yuser( Y : Integer) : Float
7438: end;
7439:
7440: Procedure FFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7441: Procedure IFFT( NumSamples : Integer; InArray, OutArray : TCompVector)
7442: Procedure FFT_Integer( NumSamples : Integer; RealIn, ImagIn : TIntVector; OutArray : TCompVector)
7443: Procedure FFT_Integer_Cleanup
7444: Procedure CalcFrequency(NumSamples,FrequencyIndex: Integer;InArray: TCompVector;var FT : Complex)
7445: //unit uPSI_JclStreams;
7446: Function StreamSeek( Stream : TStream; const Offset : Int64; const Origin : TSeekOrigin) : Int64
7447: Function StreamCopy( Source : TStream; Dest : TStream; BufferSize : Integer) : Int64
7448: Function CompareStreams( A, B : TStream; BufferSize : Integer) : Boolean
7449: Function JCompareFiles( const FileA, FileB : TFileName; BufferSize : Integer) : Boolean
7450:
7451: procedure SIRegister_FmxUtils(CL: TPSPascalCompiler);
7452: begin
7453:   FindClass('TOBJECT'), 'EInvalidDest
7454:   FindClass('TOBJECT'), 'EFCantMove
7455:   Procedure fmxCopyFile( const FileName, DestName : string)
7456:   Procedure fmxFMovefile( const FileName, DestName : string)
7457:   Function fmxFGetFileSize( const FileName : string) : LongInt
7458:   Function fmxFGetDateTime( const FileName : string) : TDateTime
7459:   Function fmxFHasAttr( const FileName : string; Attr : Word) : Boolean
7460:   Function fmxFExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer):THandle;
7461: end;
7462:
7463: procedure SIRegister_FindFileIter(CL: TPSPascalCompiler);
7464: begin
7465:   SIRegister_IFindFileIterator(CL);
7466:   Function CreateFindFile(const Path:string; IncludeAttr:Integer;out iffi:IFindFileIterator):Bool;
7467: end;
7468:
7469: procedure SIRegister_PCharUtils(CL: TPSPascalCompiler);
7470: begin
7471:   Function SkipWhite( cp : PChar ) : PChar
7472:   Function ReadStringDoubleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7473:   Function ReadStringSingleQuotedMaybe( cp : PChar; var AStr : string) : PChar
7474:   Function ReadIdent( cp : PChar; var ident : string) : PChar
7475: end;
7476:
7477: procedure SIRegister_JclStrHashMap(CL: TPSPascalCompiler);
7478: begin
7479:   SIRegister_TStringHashMapTraits(CL);
7480:   Function CaseSensitiveTraits : TStringHashMapTraits
7481:   Function CaseInsensitiveTraits : TStringHashMapTraits
7482:   THashNode', 'record Str : string; Ptr : Pointer; Left : PHashNod'
7483:   +'e; Right : PHashNode; end
7484:   //PHashArray', '^THashArray // will not work
7485:   SIRegister_TStringHashMap(CL);
7486:   THashValue', 'Cardinal
7487:   Function StrHash( const s : string) : THashValue
7488:   Function TextHash( const s : string) : THashValue
7489:   Function DataHash( var AValue, ASize : Cardinal) : THashValue
7490:   Function Iterate_FreeObjects( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7491:   Function Iterate_Dispose( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7492:   Function Iterate_FreeMem( AUserData : Pointer; const AStr : string; var AData : Pointer) : Boolean
7493:   SIRegister_TCaseSensitiveTraits(CL);
7494:   SIRegister_TCaseInsensitiveTraits(CL);
7495:
7496:
7497: //*****unit uPSI_umath;
7498: Function uExp( X : Float ) : Float
7499: Function uExp2( X : Float ) : Float
7500: Function uExp10( X : Float ) : Float
7501: Function uLog( X : Float ) : Float
7502: Function uLog2( X : Float ) : Float

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7503: Function uLog10( X : Float ) : Float
7504: Function uLogA( X, A : Float ) : Float
7505: Function uIntPower( X : Float; N : Integer) : Float
7506: Function uPower( X, Y : Float ) : Float
7507: Function SgnGamma( X : Float ) : Integer
7508: Function Stirling( X : Float ) : Float
7509: Function StirLog( X : Float ) : Float
7510: Function Gamma( X : Float ) : Float
7511: Function LnGamma( X : Float ) : Float
7512: Function DiGamma( X : Float ) : Float
7513: Function TriGamma( X : Float ) : Float
7514: Function IGamma( X : Float ) : Float
7515: Function JGamma( X : Float ) : Float
7516: Function InvGamma( X : Float ) : Float
7517: Function Erf( X : Float ) : Float
7518: Function Erfc( X : Float ) : Float
7519: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7520: { Correlation coefficient between samples X and Y }
7521: function DBeta(A, B, X : Float) : Float;
7522: { Density of Beta distribution with parameters A and B }
7523: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7524: Function Beta(X, Y : Float) : Float
7525: Function Binomial( N, K : Integer) : Float
7526: Function PBinom( N : Integer; P : Float; K : Integer) : Float
7527: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7528: Procedure LU_Decompo( A : TMatrix; Lb, Ub : Integer)
7529: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7530: Function DNorm( X : Float ) : Float
7531:
7532: function DGamma(A, B, X : Float) : Float;
7533: { Density of Gamma distribution with parameters A and B }
7534: function DKhi2(Nu : Integer; X : Float) : Float;
7535: { Density of Khi-2 distribution with Nu d.o.f. }
7536: function DStudent(Nu : Integer; X : Float) : Float;
7537: { Density of Student distribution with Nu d.o.f. }
7538: function DSnedecor(Nul, Nu2 : Integer; X : Float) : Float;
7539: { Density of Fisher-Snedecor distribution with Nul and Nu2 d.o.f. }
7540: function IBeta(A, B, X : Float) : Float;
7541: { Incomplete Beta function}
7542: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7543:
7544: procedure SIRegister_unlfit(CL: TPSPascalCompiler);
7545: begin
7546: Procedure SetOptAlgo( Algo : TOptAlgo)
7547: procedure SetOptAlgo(Algo : TOptAlgo);
7548: { -----
7549:   Sets the optimization algorithm according to Algo, which must be
7550:   NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ   }
7551:
7552: Function GetOptAlgo : TOptAlgo
7553: Procedure SetMaxParam( N : Byte)
7554: Function GetMaxParam : Byte
7555: Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float)
7556: Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float)
7557: Function NullParam( B : TVector; Lb, Ub : Integer) : Boolean
7558: Procedure NLFit( RegFunc : TRegFunc; DerivProc : TDerivProc; X, Y : TVector; Lb, Ub : Integer; MaxIter :
    Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7559: Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDerivProc; X, Y, S : TVector; Lb, Ub:Integer;
    MaxIter:Integer;Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix)
7560: Procedure SetMCFFile( FileName : String)
7561: Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix;
7562: Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,
    LastPar:Integer;V:TMatrix);
7563: end;
7564:
7565: (*-----*)
7566: procedure SIRegister_usimplex(CL: TPSPascalCompiler);
7567: begin
7568: Procedure SaveSimplex( FileName : string)
7569: Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float);
7570: end;
7571: (*-----*)
7572: procedure SIRegister_uregtest(CL: TPSPascalCompiler);
7573: begin
7574: Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest)
7575: Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest);
7576: end;
7577:
7578: procedure SIRegister_ustrings(CL: TPSPascalCompiler);
7579: begin
7580: Function LTrim( S : String ) : String
7581: Function RTrim( S : String ) : String
7582: Function uTrim( S : String ) : String
7583: Function StrChar( N : Byte; C : Char ) : String
7584: Function RFill( S : String; L : Byte ) : String
7585: Function LFill( S : String; L : Byte ) : String
7586: Function CFill( S : String; L : Byte ) : String
7587: Function Replace( S : String; C1, C2 : Char ) : String
7588: Function Extract( S : String; var Index : Byte; Delim : Char ) : String

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7589: Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7590: Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7591: Function FloatStr( X : Float) : String
7592: Function IntStr( N : LongInt) : String
7593: Function uCompStr( Z : Complex) : String
7594: end;
7595:
7596: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7597: begin
7598:   Function uSinh( X : Float) : Float
7599:   Function uCosh( X : Float) : Float
7600:   Function uTanh( X : Float) : Float
7601:   Function uArcSinh( X : Float) : Float
7602:   Function uArcCosh( X : Float) : Float
7603:   Function ArcTanh( X : Float) : Float
7604:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7605: end;
7606:
7607: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7608: begin
7609: type RNG_Type =
7610:   (RNG_MWC,           { Multiply-With-Carry }
7611:    RNG_MT,            { Mersenne Twister }
7612:    RNG_UVAG);        { Universal Virtual Array Generator }
7613: Procedure SetRNG( RNG : RNG_Type)
7614: Procedure InitGen( Seed : RNG_IntType)
7615: Procedure SRand( Seed : RNG_IntType)
7616: Function IRanGen : RNG_IntType
7617: Function IRanGen31 : RNG_IntType
7618: Function RanGen1 : Float
7619: Function RanGen2 : Float
7620: Function RanGen3 : Float
7621: Function RanGen53 : Float
7622: end;
7623:
7624: // Optimization by Simulated Annealing
7625: procedure SIRegister_usimann(CL: TPSPascalCompiler);
7626: begin
7627:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7628:   Procedure SA_CreateLogFile( FileName : String)
7629:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7630: end;
7631:
7632: procedure SIRegister_uranuvag(CL: TPSPascalCompiler);
7633: begin
7634:   Procedure InitUVAGbyString( KeyPhrase : string)
7635:   Procedure InitUVAG( Seed : RNG_IntType)
7636:   Function IRanUVAG : RNG_IntType
7637: end;
7638:
7639: procedure SIRegister_ugenalg(CL: TPSPascalCompiler);
7640: begin
7641:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7642:   Procedure GA_CreateLogFile( LogFileName : String)
7643:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7644: end;
7645:
7646: TVector', 'array of Float
7647: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7648: begin
7649:   Procedure QSort( X : TVector; Lb, Ub : Integer)
7650:   Procedure DQSort( X : TVector; Lb, Ub : Integer)
7651: end;
7652:
7653: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7654: begin
7655:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7656:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7657: end;
7658:
7659: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7660: begin
7661:   FT_Result', 'Integer
7662:   //TDWordptr', '^DWord // will not work
7663:   TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor'
7664:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PChar'
7665:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7666:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7667:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7668:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7669:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7670:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7671:   Current : Byte; BIsHighCurrent : Byte; IFAISFifo : Byte; IFAISFifoTar : By'
7672:   te; IFAISFastSer : Byte; AIsVCP : Byte; IFBISFifo : Byte; IFBISFifoTar : B'
7673:   yte; IFBISFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '
7674:   Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; I'
7675:   nvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; Inv'
7676:   ertDTR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 '
7677:   : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIsvCP : B'

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7678:     yte; end
7679: end;
7680:
7681:
7682: //***** PaintFX*****
7683: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7684: begin
7685:   //with RegClass(CL,'TComponent', 'TJvPaintFX') do
7686:   with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7687:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7688:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7689:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7690:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7691:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7692:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7693:     Procedure Turn( Src, Dst : TBitmap)
7694:     Procedure TurnRight( Src, Dst : TBitmap)
7695:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7696:     Procedure TexturizeTile( const Dst : TBitmap; Amount : Integer)
7697:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7698:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7699:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7700:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7701:     Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7702:     Procedure DrawMandelJulia( const Dst : TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7703:     Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7704:     Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7705:     Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7706:     Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7707:     Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7708:     Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7709:     Procedure Emboss( var Bmp : TBitmap)
7710:     Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7711:     Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7712:     Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7713:     Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7714:     Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7715:     Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7716:     Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7717:     Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7718:     Procedure Foldright( Src1, Src2, Dst : TBitmap; Amount : Single)
7719:     Procedure QuartoOpaque( Src, Dst : TBitmap)
7720:     Procedure SemiOpaque( Src, Dst : TBitmap)
7721:     Procedure ShadowDownLeft( const Dst : TBitmap)
7722:     Procedure ShadowDownRight( const Dst : TBitmap)
7723:     Procedure ShadowUpLeft( const Dst : TBitmap)
7724:     Procedure ShadowUpRight( const Dst : TBitmap)
7725:     Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7726:     Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7727:     Procedure FlipRight( const Dst : TBitmap)
7728:     Procedure FlipDown( const Dst : TBitmap)
7729:     Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7730:     Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7731:     Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7732:     Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7733:     Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7734:     Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7735:     Procedure SmoothResize( var Src, Dst : TBitmap)
7736:     Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7737:     Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7738:     Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7739:     Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7740:     Procedure GrayScale( const Dst : TBitmap)
7741:     Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7742:     Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7743:     Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7744:     Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7745:     Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7746:     Procedure Spray( const Dst : TBitmap; Amount : Integer)
7747:     Procedure AntiAlias( const Dst : TBitmap)
7748:     Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7749:     Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7750:     Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7751:     Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7752:     Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7753:     Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7754:     Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7755:     Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7756:     Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7757:     Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7758:     Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7759:     Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7760:     Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7761:     Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7762:     Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)
7763:     Procedure Grow( Src1, Src2, Dst : TBitmap; Amount : Single; X, Y : Integer)
7764:     Procedure Invert( Src : TBitmap)
7765:     Procedure MirrorRight( Src : TBitmap)
7766:     Procedure MirrorDown( Src : TBitmap)

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7767:   end;
7768: end;
7769:
7770: (*-----*)
7771: procedure SIRegister_JvPaintFX(CL: TPSPascalCompiler);
7772: begin
7773:   AddTypeS('TLightBrush', '( lbBrightness, lbContrast, lbSaturation, lbFishe'
7774:             +'ye, lbtotate, lbtwist, lbrimble, mbHor, mbTop, mbBottom, mbDiamond, mbWast'
7775:             +'e, mbRound, mbRound2, mbSplitRound, mbSplitWaste )'
7776:   SIRegister_TJvPaintFX(CL);
7777:   Function SplineFilter( Value : Single ) : Single
7778:   Function BellFilter( Value : Single ) : Single
7779:   Function TriangleFilter( Value : Single ) : Single
7780:   Function BoxFilter( Value : Single ) : Single
7781:   Function HermiteFilter( Value : Single ) : Single
7782:   Function Lanczos3Filter( Value : Single ) : Single
7783:   Function MitchellFilter( Value : Single ) : Single
7784: end;
7785:
7786:
7787: (*-----*)
7788: procedure SIRegister_Chart(CL: TPSPascalCompiler);
7789: begin
7790:   'TeeMsg_DefaultFunctionName','String 'TeeFunction
7791:   TeeMsg_DefaultSeriesName','String 'Series
7792:   TeeMsg_DefaultToolName','String 'ChartTool
7793:   ChartComponentPalette','String 'TeeChart
7794:   TeeMaxLegendColumns',LongInt'( 2 );
7795:   TeeDefaultLegendSymbolWidth',LongInt'( 20 );
7796:   TeeTitleFootDistance,LongInt( 5 );
7797:   SIRegister_TCustomChartWall(CL);
7798:   SIRegister_TChartWall(CL);
7799:   SIRegister_TChartLegendGradient(CL);
7800:   TLegendStyle', '( lsAuto, lsSeries, lsValues, lsLastValues, lsSeriesGroups )'
7801:   TLegendAlignment', '( laLeft, laRight, laTop, laBottom )'
7802:   FindClass('TOBJECT'),'LegendException
7803:   TOnGetLegendText', 'Procedure ( Sender : TCustomAxisPanel; Legen'
7804:             +'dStyle : TLegendStyle; Index : Integer; var LegendText : String)
7805:   FindClass('TOBJECT'),'TCustomChartLegend
7806:   TLegendSymbolSize', '( lcsPercent, lcsPixels )
7807:   TLegendSymbolPosition', '( spLeft, spright )
7808:   TSymbolDrawEvent', 'Procedure(Sender:TObject;Series:TChartSeries;ValueIndex:Integer;R:TRect)'
7809:   TSymbolCalcHeight', 'Function : Integer
7810:   SIRegister_TLegendSymbol(CL);
7811:   SIRegister_TTeeCustomShapePosition(CL);
7812:   TCheckBoxesStyle', '( cbsCheck, cbsRadio )
7813:   SIRegister_TLegendTitle(CL);
7814:   SIRegister_TLegendItem(CL);
7815:   SIRegister_TLegendItems(CL);
7816:   TLegendCalcSize', 'Procedure ( Sender : TCustomChartLegend; var ASize : Integer)
7817:   FindClass('TOBJECT'),'TCustomChart
7818:   SIRegister_TCustomChartLegend(CL);
7819:   SIRegister_TChartLegend(CL);
7820:   SIRegister_TChartTitle(CL);
7821:   SIRegister_TChartFootTitle(CL);
7822:   TChartClick , 'Procedure ( Sender : TCustomChart; Button : TMous'
7823:             +'eButton; Shift : TShiftState; X, Y : Integer)
7824:   TChartClickAxis', 'Procedure ( Sender : TCustomChart; Axis : TCh'
7825:             +'artAxis; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7826:   TChartClickSeries', 'Procedure ( Sender : TCustomChart; Series : '
7827:             +TChartSeries; ValueIndex : Integer; Button: TMouseButton; Shift:TShiftState;X,Y:Integer)
7828:   TChartClickTitle', 'Procedure ( Sender : TCustomChart; ATitle : '
7829:             +'TChartTitle; Button : TMouseButton; Shift : TShiftState; X, Y : Integer)
7830:   TOnGetLegendPos', 'Procedure ( Sender: TCustomChart; Index: Integer; var X,Y,XColor:Integer)
7831:   TOnGetLegendRect', 'Procedure ( Sender : TCustomChart, var Rect : TRect)
7832:   TAxisSavedScales', 'record Auto : Boolean; AutoMin : Boolean; Au'
7833:             +'tMax : Boolean; Min : Double; Max : Double; end
7834:   TA11AxisSavedScales', 'array of TAxisSavedScales
7835:   SIRegister_TChartBackWall(CL);
7836:   SIRegister_TChartRightWall(CL);
7837:   SIRegister_TChartBottomWall(CL);
7838:   SIRegister_TChartLeftWall(CL);
7839:   SIRegister_TChartWalls(CL);
7840:   TChartAllowScrollEvent ', 'Procedure(Sender:TChartAxis;var AMin,AMax:Double;var AllowScroll:Boolean);
7841:   SIRegister_TCustomChart(CL);
7842:   SIRegister_TChart(CL);
7843:   SIRegister_TTeeSeriesTypes(CL);
7844:   SIRegister_TTeeToolTypes(CL);
7845:   SIRegister_TTeeDragObject(CL);
7846:   SIRegister_TColorPalettes(CL);
7847:   Procedure RegisterTeeSeries(ASeriesClass:TChartSeriesClass;ADescription,
    AGalleryPage:PString;ANumGallerySeries:Integer;
7848:   Procedure RegisterTeeSeries( ASeriesClass : TChartSeriesClass; ADscription : PString);
7849:   Procedure RegisterTeeFunction(AFuncClass:TTeeFunctionClass;ADescription : PString,
    AGalleryPage:PString;ANumGallerySeries: Int;
7850:   Procedure RegisterTeeBasicFunction( AFunctionClass : TTeeFunctionClass; ADscription : PString)
7851:   Procedure RegisterTeeSeriesFunction(ASeriesClass: TChartSeriesClass;AFunctionClass:TTeeFunctionClass;
    ADscription, AGalleryPage : PString; ANumGallerySeries : Integer; ASubIndex : Integer)
7852:   Procedure UnRegisterTeeSeries( const ASeriesList : array of TChartSeriesClass)

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7853: Procedure UnRegisterTeeFunctions( const AFunctionList : array of TTeeFunctionClass )
7854: Procedure AssignSeries( var OldSeries, NewSeries : TChartSeries )
7855: Function CreateNewTeeFunction( ASeries : TChartSeries; AClass : TTeeFunctionClass ) : TTeeFunction
7856: Function CreateNewSeries( AOwner : TComponent; AChart : TCustomAxisPanel; AClass : TChartSeriesClass;
    AFunctionClass : TTeeFunctionClass ) : TChartSeries
7857: Function CloneChartSeries( ASeries : TChartSeries ) : TChartSeries;
7858: Function CloneChartSeries1( ASeries : TChartSeries; AChart : TCustomAxisPanel ) : TChartSeries;
7859: Function CloneChartSeries2( ASeries:TChartSeries;AOwner:TComponent;AChart:TCustomAxisPanel):TChartSeries;;
7860: Function CloneChartTool( ATool : TTeeCustomTool; AOwner : TComponent ) : TTeeCustomTool
7861: Function ChangeSeriesType( var ASeries : TChartSeries; NewType : TChartSeriesClass ) : TChartSeries
7862: Procedure ChangeAllSeriesType( AChart : TCustomChart; AClass : TChartSeriesClass )
7863: Function GetNewSeriesName( AOwner : TComponent ) : TComponentName
7864: Procedure RegisterTeeTools( const ATools : array of TTeeCustomToolClass )
7865: Procedure UnRegisterTeeTools( const ATools : array of TTeeCustomToolClass )
7866: Function GetGallerySeriesName( ASeries : TChartSeries ) : String
7867: Procedure PaintSeriesLegend(ASeries:TChartSeries;ACanvas:TCanvas;const
    R:TRect;ReferenceChart:TCustomChart);
7868:   SIRegister_TChartTheme(CL);
7869: //TChartThemeClass', 'class of TChartTheme
7870: //TCanvasClass', 'class of TCanvas3D
7871: Function SeriesNameOrIndex( ASeries : TCustomChartSeries ) : String
7872: Function SeriesTitleOrName( ASeries : TCustomChartSeries ) : String
7873: Procedure FillSeriesItems( AItems : TStrings; AList : TCustomSeriesList; UseTitles : Boolean )
7874: Procedure ShowMessageUser( const S : String )
7875: Function HasNoMandatoryValues( ASeries : TChartSeries ) : Boolean
7876: Function HasLabels( ASeries : TChartSeries ) : Boolean
7877: Function HasColors( ASeries : TChartSeries ) : Boolean
7878: Function SeriesGuessContents( ASeries : TChartSeries ) : TeeFormatFlag
7879: Procedure TeeDrawBitmapEditor( Canvas : TCanvas; Element : TCustomChartElement; Left, Top : Integer )
7880: end;
7881:
7882:
7883: procedure SIRegister_TeeProcs(CL: TPPascalCompiler);
7884: begin
7885: //TeeFormBorderStyle', 'bsNone';
7886: SIRegister_TMetafile(CL);
7887: 'TeeDefVerticalMargin','LongInt'( 4 );
7888: 'TeeDefHorizMargin','LongInt'( 3 );
7889: 'crTeeHand','LongInt'( TCursor( 2020 ) );
7890: 'TeeMsg_TeeHand','String' crTeeHand
7891: 'TeeNormalPrintDetail','LongInt'( 0 );
7892: 'TeeHighPrintDetail','LongInt'( - 100 );
7893: 'TeeDefault_PrintMargin','LongInt'( 15 );
7894: 'MaxDefaultColors','LongInt'( 19 );
7895: 'TeeTabDelimiter','Char' #9;
7896: TDateTimeStep', '( dtOneMicroSecond, dtOneMillisecond, dtOneSeco'
7897:   +'nd, dtFiveSeconds, dtTenSeconds, dtFifteenSeconds, dtThirtySeconds, dtOneM'
7898:   +'inute, dtFiveMinutes, dtTenMinutes, dtFifteenMinutes, dtThirtyMinutes, dtO'
7899:   +'neHour, dtTwoHours, dtSixHours, dtTwelveHours, dtOneDay, dtTwoDays, dtThre'
7900:   +'eDays, dtOneWeek, dtHalfMonth, dtOneMonth, dtTwoMonths, dtThreeMonths, dtF'
7901:   +'ourMonths, dtSixMonths, dtOneYear, dtNone )
7902: SIRegister_TCustomPanelNoCaption(CL);
7903: FindClass('TOBJECT'), 'TCustomTeePanel
7904: SIRegister_TZoomPanning(CL);
7905: SIRegister_TTeeEvent(CL);
7906: //SIRegister_TTeeEventListeners(CL);
7907: TTeeMouseEventKind', '( meDown, meUp, meMove )
7908: SIRegister_TTeeMouseEvent(CL);
7909: SIRegister_TCustomTeePanel(CL);
7910: //TChartGradient', 'TTeeGradient
7911: //TChartGradientClass', 'class of TChartGradient
7912: TPanningMode', '( pmNone, pmHorizontal, pmVertical, pmBoth )
7913: SIRegister_TTeeZoomPen(CL);
7914: SIRegister_TTeeZoomBrush(CL);
7915: TTeeZoomDirection', '( tzdHorizontal, tzdVertical, tzdBoth )
7916: SIRegister_TTeeZoom(CL);
7917: FindClass('TOBJECT'), 'TCustomTeePanelExtended
7918: TTeeBackImageMode', '( pbmStretch, pbmTile, pbmCenter, pbmCustom )
7919: SIRegister_TBackImage(CL);
7920: SIRegister_TCustomTeePanelExtended(CL);
7921: //TChartBrushClass', 'class of TChartBrush
7922: SIRegister_TTeeCustomShapeBrushPen(CL);
7923: TChartObjectShapeStyle', '( fosRectangle, fosRoundRectangle, fosEllipse )
7924: TTextFormat', '( ttfNormal, ttfHtml )
7925: SIRegister_TTeeCustomShape(CL);
7926: SIRegister_TTeeShape(CL);
7927: SIRegister_TTeeExportData(CL);
7928: Function TeeStr( const Num : Integer ) : String
7929: Function DateTimeDefaultFormat( const AStep : Double ) : String
7930: Function TEEDaysInMonth( Year, Month : Word ) : Word
7931: Function FindDateTimeStep( const StepValue : Double ) : TDateTimeStep
7932: Function NextDateTimeStep( const AStep : Double ) : Double
7933: Function PointInLine( const P : TPoint; const px, py, qx, qy : Integer ) : Boolean;
7934: Function PointInLine1( const P, FromPoint, ToPoint : TPoint ) : Boolean;
7935: Function PointInLine2(const P,FromPoint,ToPoint:TPoint;const TolerancePixels:Integer):Boolean;
7936: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer ):Boolean;
7937: Function PointInLineTolerance(const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer):Boolean;
7938: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean
7939: Function PointInTriangle( const P, P0, P1, P2 : TPoint ) : Boolean;

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7940: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer ) : Boolean;
7941: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer ) : Boolean;
7942: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7943: Function PointInEllipse1( const P: TPoint;Left,Top,Right, Bottom : Integer ) : Boolean;
7944: Function DelphiToLocalFormat( const Format : String ) : String
7945: Function LocalToDelphiFormat( const Format : String ) : String
7946: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl)
7947: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime
7948: Procedure TeeDateTimeIncrement( IsDateTime:Boolean;Increment:Boolean;var Value:Double;const
AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
7949: TTeeSortCompare', 'Function ( a, b : Integer ) : Integer
7950: TTeeSortSwap', 'Procedure ( a, b : Integer )
7951: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TTEESortCompare;SwapFunc:TTEESortSwap);
7952: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string
7953: Function TeeExtractField( St : String; Index : Integer ) : String;
7954: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
7955: Function TeeNumFields( St : String ) : Integer;
7956: Function TeeNumFields1( const St, Separator : String ) : Integer;
7957: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap )
7958: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String )
7959: // TColorArray', 'array of TColor
7960: Function GetDefaultColor( const Index : Integer ) : TColor
7961: Procedure SetDefaultColorPalette;
7962: Procedure SetDefaultColorPalettel( const Palette : array of TColor );
7963: 'TeeCheckBoxSize','LongInt' ( 11 );
7964: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7965: Function TEEStrToFloatDef( const S : string; const Default : Extended ) : Extended
7966: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean
7967: Function CrossingLines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean
7968: Procedure TeeTranslateControl( AControl : TControl );
7969: Procedure TeeTranslateControll( AControl : TControl; const ExcludeChilds : array of TControl );
7970: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String
7971: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints )
7972: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean ) : TBitmap
7973: //Procedure DrawBevel(Canvas:TTeeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7974: //Function ScreenRatio( ACanvas : TCanvas3D ) : Double
7975: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean ) : Boolean
7976: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean )
7977: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer ) : Integer
7978: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer )
7979: Function TeeReadStringOption( const AKey, DefaultValue : String ) : String
7980: Procedure TeeSaveStringOption( const AKey, Value : String )
7981: Function TeeDefaultXMLEncoding : String
7982: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean )
7983: TeeWindowHandle', 'Integer
7984: Procedure TeeGoToURL( Handle : TeeWindowHandle; const URL : String )
7985: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String )
7986: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String ) : TSize
7987: end;
7988:
7989:
7990: using mXBDEUtils
7991: ****
7992: Procedure SetAlias( aAlias, aDirectory : String )
7993: Procedure CheckRegistryEntry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
7994: Function GetFileVersionNumber( const FileName : String ) : TVersionNo
7995: Procedure SetBDE( aPath, aNode, aValue : String )
7996: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
7997: Function GetSystemDirectory( lpBuffer : string; uSize : UINT ) : UINT
7998: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT ) : UINT
7999: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string ) : DWORD
8000: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string ) : DWORD
8001: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
8002:
8003:
8004: procedure SIRegister_cDateTime(CL: TPPascalCompiler);
8005: begin
8006: AddClassN(FindClass('TOBJECT'), 'EDateTime'
8007: Function DatePart( const D : TDateTime ) : Integer
8008: Function TimePart( const D : TDateTime ) : Double
8009: Function Century( const D : TDateTime ) : Word
8010: Function Year( const D : TDateTime ) : Word
8011: Function Month( const D : TDateTime ) : Word
8012: Function Day( const D : TDateTime ) : Word
8013: Function Hour( const D : TDateTime ) : Word
8014: Function Minute( const D : TDateTime ) : Word
8015: Function Second( const D : TDateTime ) : Word
8016: Function Millisecond( const D : TDateTime ) : Word
8017: ('OneDay','Extended').setExtended( 1.0 );
8018: ('OneHour','Extended').SetExtended( OneDay / 24 );
8019: ('OneMinute','Extended').SetExtended( OneHour / 60 );
8020: ('OneSecond','Extended').SetExtended( OneMinute / 60 );
8021: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000 );
8022: ('OneWeek','Extended').SetExtended( OneDay * 7 );
8023: ('HoursPerDay','Extended').SetExtended( 24 );
8024: ('MinutesPerHour','Extended').SetExtended( 60 );
8025: ('SecondsPerMinute','Extended').SetExtended( 60 );
8026: Procedure SetYear( var D : TDateTime; const Year : Word )

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8027: Procedure SetMonth( var D : TDateTime; const Month : Word)
8028: Procedure SetDay( var D : TDateTime; const Day : Word)
8029: Procedure SetHour( var D : TDateTime; const Hour : Word)
8030: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8031: Procedure SetSecond( var D : TDateTime; const Second : Word)
8032: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8033: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8034: Function IsEqual1( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8035: Function IsEqual2( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8036: Function IsAM( const D : TDateTime) : Boolean
8037: Function IsPM( const D : TDateTime) : Boolean
8038: Function IsMidnight( const D : TDateTime) : Boolean
8039: Function IsNoon( const D : TDateTime) : Boolean
8040: Function IsSunday( const D : TDateTime) : Boolean
8041: Function IsMonday( const D : TDateTime) : Boolean
8042: Function IsTuesday( const D : TDateTime) : Boolean
8043: Function IsWednesday( const D : TDateTime) : Boolean
8044: Function IsThursday( const D : TDateTime) : Boolean
8045: Function IsFriday( const D : TDateTime) : Boolean
8046: Function IsSaturday( const D : TDateTime) : Boolean
8047: Function IsWeekend( const D : TDateTime) : Boolean
8048: Function Noon( const D : TDateTime) : TDateTime
8049: Function Midnight( const D : TDateTime) : TDateTime
8050: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8051: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8052: Function NextWorkday( const D : TDateTime) : TDateTime
8053: Function PreviousWorkday( const D : TDateTime) : TDateTime
8054: Function FirstDayOfYear( const D : TDateTime) : TDateTime
8055: Function LastDayOfYear( const D : TDateTime) : TDateTime
8056: Function EasterSunday( const Year : Word) : TDateTime
8057: Function GoodFriday( const Year : Word) : TDateTime
8058: Function AddMilliseconds( const D : TDateTime; const N : Int64) : TDateTime
8059: Function AddSeconds( const D : TDateTime; const N : Int64) : TDateTime
8060: Function AddMinutes( const D : TDateTime; const N : Integer) : TDateTime
8061: Function AddHours( const D : TDateTime; const N : Integer) : TDateTime
8062: Function AddDays( const D : TDateTime; const N : Integer) : TDateTime
8063: Function AddWeeks( const D : TDateTime; const N : Integer) : TDateTime
8064: Function AddMonths( const D : TDateTime; const N : Integer) : TDateTime
8065: Function AddYears( const D : TDateTime; const N : Integer) : TDateTime
8066: Function DayOfYear( const Ye, Mo, Da : Word) : Integer
8067: Function DayOfYear( const D : TDateTime) : Integer
8068: Function DaysInMonth( const Ye, Mo : Word) : Integer
8069: Function DaysInMonth( const D : TDateTime) : Integer
8070: Function DaysInYear( const Ye : Word) : Integer
8071: Function DaysInYearDate( const D : TDateTime) : Integer
8072: Function WeekNumber( const D : TDateTime) : Integer
8073: Function ISOFirstWeekOfYear( const Ye : Word) : TDateTime
8074: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word)
8075: Function DiffMilliseconds( const D1, D2 : TDateTime) : Int64
8076: Function DiffSeconds( const D1, D2 : TDateTime) : Integer
8077: Function DiffMinutes( const D1, D2 : TDateTime) : Integer
8078: Function DiffHours( const D1, D2 : TDateTime) : Integer
8079: Function DiffDays( const D1, D2 : TDateTime) : Integer
8080: Function DiffWeeks( const D1, D2 : TDateTime) : Integer
8081: Function DiffMonths( const D1, D2 : TDateTime) : Integer
8082: Function DiffYears( const D1, D2 : TDateTime) : Integer
8083: Function GMTBias : Integer
8084: Function GMTTimeToLocaltime( const D : TDateTime) : TDateTime
8085: Function LocalTimeToGMTTime( const D : TDateTime) : TDateTime
8086: Function NowAsGMTTime : TDateTime
8087: Function DateTimeToISO8601String( const D : TDateTime) : AnsiString
8088: Function ISO8601StringToTime( const D : AnsiString) : TDateTime
8089: Function ISO8601StringAsDateTime( const D : AnsiString) : TDateTime
8090: Function DateTimeToANSI( const D : TDateTime) : Integer
8091: Function ANSIToDateTime( const Julian : Integer) : TDateTime
8092: Function DateTimeToISOInteger( const D : TDateTime) : Integer
8093: Function DateTimeToISOString( const D : TDateTime) : AnsiString
8094: Function ISOInteger.ToDateTime( const ISOInteger : Integer) : TDateTime
8095: Function TwoDigitRadix2000YearToYear( const Y : Integer) : Integer
8096: Function DateTimeAsElapsedTime(const D:TDateTime; const IncludeMilliseconds:Boolean):AnsiString
8097: Function UnixTimeToDateTIme( const UnixTime : LongWord) : TDateTime
8098: Function DateTimeToUnixTime( const D : TDateTime) : LongWord
8099: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8100: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8101: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8102: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8103: Function EnglishShortMonthStrA( const Month : Integer) : AnsiString
8104: Function EnglishShortMonthStrU( const Month : Integer) : UnicodeString
8105: Function EnglishLongMonthStrA( const Month : Integer) : AnsiString
8106: Function EnglishLongMonthStrU( const Month : Integer) : UnicodeString
8107: Function EnglishShortDayOfWeekA( const S : AnsiString) : Integer
8108: Function EnglishShortDayOfWeekU( const S : UnicodeString) : Integer
8109: Function EnglishLongDayOfWeekA( const S : AnsiString) : Integer
8110: Function EnglishLongDayOfWeekU( const S : UnicodeString) : Integer
8111: Function EnglishShortMonthA( const S : AnsiString) : Integer
8112: Function EnglishShortMonthU( const S : UnicodeString) : Integer
8113: Function EnglishLongMonthA( const S : AnsiString) : Integer
8114: Function EnglishLongMonthU( const S : UnicodeString) : Integer
8115: Function RFC850DayOfWeekA( const S : AnsiString) : Integer

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8116: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8117: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8118: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8119: Function RFCMonthA( const S : AnsiString ) : Word
8120: Function RFCMonthU( const S : UnicodeString ) : Word
8121: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds:Boolean ) : AnsiString
8122: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds:Boolean ) : UnicodeString
8123: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek:Bool ):AnsiString;
8124: Function GMTDateTimeToRFC1123DateTimeU( const D:TDateTime;const IncludeDayOfWeek:Bool ):UnicodeString;
8125: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8126: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8127: Function NowAsRFCDateTimeA : AnsiString
8128: Function NowAsRFCDateTimeU : UnicodeString
8129: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8130: Function RFCDateTimeToDateTIme( const S : AnsiString ) : TDateTime
8131: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8132: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8133: Procedure SelfTest
8134: end;
8135: //*****CFileUtils*****
8136: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean
8137: Function PathHasDriveLetter( const Path : String ) : Boolean
8138: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8139: Function PathIsDriveLetter( const Path : String ) : Boolean
8140: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8141: Function PathIsDriveRoot( const Path : String ) : Boolean
8142: Function PathIsRootA( const Path : AnsiString ) : Boolean
8143: Function PathIsRoot( const Path : String ) : Boolean
8144: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8145: Function PathIsUNCPath( const Path : String ) : Boolean
8146: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8147: Function PathIsAbsolute( const Path : String ) : Boolean
8148: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8149: Function PathIsDirectory( const Path : String ) : Boolean
8150: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8151: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8152: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8153: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8154: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8155: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8156: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8157: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8158: //Function PathCanonical( const Path : AnsiString; const PathSep : Char ) : AnsiString
8159: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8160: Function PathExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8161: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8162: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8163: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8164: Procedure PathSplitLeftElementA( const Path:AString;var LeftElement,RightPath:AString;const PathSep:Char );
8165: Procedure PathSplitLeftElement( const Path:String; var LeftElement,RightPath: String;const PathSep:Char );
8166: Procedure DecodeFilePathA( const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char );
8167: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8168: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8169: Function FileNameValid( const FileName : String ) : String
8170: Function FileHandleA( const FileName,Path:AnsiString;const basePath:AnsiStr;const PathSep:Char):AnsiString;
8171: Function FilePath( const FileName, Path : String;const basePath: String;const PathSep : Char ) : String
8172: Function DirectoryExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char ) : AnsiString
8173: Function DirectoryExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8174: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8175: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8176: Procedure CCopyFile( const FileName, DestName : String )
8177: Procedure CMoveFile( const FileName, DestName : String )
8178: Function CDeleteFiles( const FileMode : String ) : Boolean
8179: Function FileSeekEx( const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8180: Procedure FileCloseEx( const FileHandle : TFileHandle )
8181: Function FileExistsA( const FileName : AnsiString ) : Boolean
8182: Function CFileExists( const FileName : String ) : Boolean
8183: Function CFileGetSize( const FileName : String ) : Int64
8184: Function FileGetDateTime( const FileName : String ) : TDateTime
8185: Function FileGetDateTime2( const FileName : String ) : TDateTime
8186: Function FileIsReadOnly( const FileName : String ) : Boolean
8187: Procedure FileDeleteEx( const FileName : String )
8188: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8189: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8190: Function DirectoryEntryExists( const Name : String ) : Boolean
8191: Function DirectoryEntrySize( const Name : String ) : Int64
8192: Function CDirectoryExists( const DirectoryName : String ) : Boolean
8193: Function CDirectoryCreate( const DirectoryName : String ) : TDateTime
8194: Function GetFirstFileNameMatching( const FileMode : String ) : String
8196: Function DirEntryGetAttr( const FileName : AnsiString ) : Integer
8197: Function DirEntryIsDirectory( const FileName : AnsiString ) : Boolean
8198: Function FileHasAttr( const FileName : String; const Attr : Word ) : Boolean
8199: AddTypes('TLogicalDriveType','( DriveRemovable, DriveFixed, DriveRemote,
8200: +DriveCDRom, DriveRamDisk, DriveTypeUnknown )
8201: Function DriveIsValid( const Drive : Char ) : Boolean
8202: Function DriveGetType( const Path : AnsiString ) : TLogicalDriveType
8203: Function DriveFreeSpace( const Path : AnsiString ) : Int64

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8204:
8205: procedure SIRегистер_cTimers(CL: TPSPPascalCompiler);
8206: begin
8207:   AddClassN(FindClass('TObject'), 'ETimers'
8208:     Const ('TickFrequency', 'LongInt'( 1000); Function GetTick : LongWord
8209:   Function TickDelta( const D1, D2 : LongWord) : Integer
8210:   Function TickDeltaW( const D1, D2 : LongWord) : LongWord
8211:   AddTypesS('THPTimer', 'Int64'
8212:   Procedure StartTimer( var Timer : THPTimer)
8213:   Procedure StopTimer( var Timer : THPTimer)
8214:   Procedure ResumeTimer( var StoppedTimer : THPTimer)
8215:   Procedure InitStoppedTimer( var Timer : THPTimer)
8216:   Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer)
8217:   Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean) : Integer
8218:   Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean) : Int64
8219:   Procedure WaitMicroseconds( const MicroSeconds : Integer)
8220:   Function GetHighPrecisionFrequency : Int64
8221:   Function GetHighPrecisionTimerOverhead : Int64
8222:   Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64)
8223:   Procedure SelfTestCTimer
8224: end;
8225:
8226: procedure SIRегистер_cRandom(CL: TPSPPascalCompiler);
8227: begin
8228:   Function RandomSeed : LongWord
8229:   Procedure AddEntropy( const Value : LongWord)
8230:   Function RandomUniform : LongWord;
8231:   Function RandomUniform1( const N : Integer) : Integer;
8232:   Function RandomBoolean : Boolean
8233:   Function RandomByte : Byte
8234:   Function RandomByteNonZero : Byte
8235:   Function RandomWord : Word
8236:   Function RandomInt64 : Int64;
8237:   Function RandomInt641( const N : Int64) : Int64;
8238:   Function RandomHex( const Digits : Integer) : String
8239:   Function RandomFloat : Extended
8240:   Function RandomAlphaStr( const Length : Integer) : AnsiString
8241:   Function RandomPseudoWord( const Length : Integer) : AnsiString
8242:   Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8243:   Function mwcRandomLongWord : LongWord
8244:   Function urnRandomLongWord : LongWord
8245:   Function moaRandomFloat : Extended
8246:   Function mwcRandomFloat : Extended
8247:   Function RandomNormalF : Extended
8248:   Procedure SelfTestCRandom
8249: end;
8250:
8251: procedure SIRегистер_SynEditMiscProcs(CL: TPSPPascalCompiler);
8252: begin
8253: // PIntArray', '^TIntArray // will not work
8254:   Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8255:   TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8256:   Function synMax( x, y : integer ) : integer
8257:   Function synMin( x, y : integer ) : integer
8258:   Function synMinMax( x, mi, ma : integer ) : integer
8259:   Procedure synSwapInt( var l, r : integer )
8260:   Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8261:   Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8262: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8263:   Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8264:   Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8265:   Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8266:   Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8267:   Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8268:   Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8269:   Function synCharIndex2Caretpos( Index, TabWidth : integer; const Line : string ) : integer
8270:   Function synCaretpos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8271:   Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8272:   Function synStrRScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8273:   TStringType, (' stNone, stHalfNumAlpha, stWideSymbol, stWideKatakana, stHiragana, stIdeograph, stControl, stKashida ')
8274:   + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida '
8275:   ('C3_NONSPACING', 'LongInt'( 1 );
8276:   'C3_DIACRITIC', 'LongInt'( 2 );
8277:   'C3_VOWELMARK', 'LongInt'( 4 );
8278:   ('C3_SYMBOL', 'LongInt'( 8 );
8279:   ('C3_KATAKANA', 'LongWord( $0010 );
8280:   ('C3_HIRAGANA', 'LongWord( $0020 );
8281:   ('C3_HALFWIDTH', 'LongWord( $0040 );
8282:   ('C3_FULLWIDTH', 'LongWord( $0080 );
8283:   ('C3_IDEOGRAPH', 'LongWord( $0100 );
8284:   ('C3_KASHIDA', 'LongWord( $0200 );
8285:   ('C3_LEXICAL', 'LongWord( $0400 );
8286:   ('C3_ALPHA', 'LongWord( $8000 );
8287:   ('C3_NOTAPPLICABLE', 'LongInt'( 0 );
8288:   Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8289:   Function synStrRScanForMultiByteChar( const Line : string; Start : Integer ) : Integer
8290:   Function synIsStringType( Value : Word ) : TStringType
8291:   Function synGetEOL( Line : PChar ) : PChar
8292:   Function synEncodeString( s : string ) : string

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8293: Function synDecodeString( s : string ) : string
8294: Procedure synFreeAndNil( var Obj: TObject )
8295: Procedure synAssert( Expr : Boolean )
8296: Function synLastDelimiter( const Delimiters, S : string ) : Integer
8297: TReplaceFlag', '( rfReplaceAll, rfIgnoreCase )
8298: TReplaceFlags', 'set of TReplaceFlag )
8299: Function synStringReplace(const S, OldPattern, NewPattern : string; Flags: TReplaceFlags) : string
8300: Function synGetRValue( RGBValue : TColor ) : byte
8301: Function synGetGValue( RGBValue : TColor ) : byte
8302: Function synGetBValue( RGBValue : TColor ) : byte
8303: Function synRGB( r, g, b : Byte ) : Cardinal
8304: // THighlighterAttriProc', 'Function ( Highlighter : TSynCustomHigh'
8305: // +'lighter; Attr:TSynHighlighterAttributes;UniqueAttriName:string;Params array of Pointer):Boolean;
8306: //Function synEnumHighlighterAttrs( Highlighter : TSynCustomHighlighter; SkipDuplicates : Boolean;
8307: HighlighterAttriProc : THighlighterAttriProc; Params : array of Pointer) : Boolean
8308: Procedure synCalcFCFS( const ABuf, ABufSize : Cardinal ) : Word
8309: Procedure synSynDrawGradient(const ACanvas:TCanvas;const AStartColor,
8310: AEndColor:TColor;ASteps:integer;const ARect : TRect; const AHorizontal : boolean)
8311: end;
8310:
8311: Function GET_APPCOMMAND_LPARAM( lParam : LPARAM ) : WORD
8312: Function GET_DEVICE_LPARAM( lParam : LPARAM ) : WORD
8313: Function GET_KEYSTATE_LPARAM( lParam : LPARAM ) : WORD
8314:
8315: procedure SIRegister_synautil(CL: TPPascalCompiler);
8316: begin
8317: Function STimeZoneBias : integer
8318: Function TimeZone : string
8319: Function Rfc822DateTime( t : TDateTime ) : string
8320: Function CDateTime( t : TDateTime ) : string
8321: Function SimpleDateTime( t : TDateTime ) : string
8322: Function AnsiCDatetime( t : TDateTime ) : string
8323: Function GetMonthNumber( Value : String ) : integer
8324: Function GetTimeFromStr( Value : string ) : TDateTime
8325: Function GetDateMDYFromStr( Value : string ) : TDateTime
8326: Function DecodeRfcDateTime( Value : string ) : TDateTime
8327: Function GetUTTIme : TDateTime
8328: Function SetUTTIme( Newdt : TDateTime ) : Boolean
8329: Function SGetTick : LongWord
8330: Function STickDelta( TickOld, TickNew : LongWord ) : LongWord
8331: Function CodeInt( Value : Word ) : Ansistring
8332: Function DecodeInt( const Value : Ansistring; Index : Integer ) : Word
8333: Function CodeLongInt( Value : LongInt ) : Ansistring
8334: Function DecodeLongInt( const Value : Ansistring; Index : Integer ) : LongInt
8335: Function DumpStr( const Buffer : Ansistring ) : string
8336: Function DumpExStr( const Buffer : Ansistring ) : string
8337: Procedure Dump( const Buffer : AnsiString; DumpFile : string )
8338: Procedure DumpEx( const Buffer : AnsiString; DumpFile : string )
8339: Function TrimSPLeft( const S : string ) : string
8340: Function TrimSPRight( const S : string ) : string
8341: Function TrimSP( const S : string ) : string
8342: Function SeparateLeft( const Value, Delimiter : string ) : string
8343: Function SeparateRight( const Value, Delimiter : string ) : string
8344: Function SGetParameter( const Value, Parameter : string ) : string
8345: Procedure ParseParametersEx( Value, Delimiter : string; const Parameters : TStrings )
8346: Procedure ParseParameters( Value : string; const Parameters : TStrings )
8347: Function IndexByBegin( Value : string; const List : TStrings ) : integer
8348: Function GetEmailAddr( const Value : string ) : string
8349: Function GetEmailDesc( Value : string ) : string
8350: Function CStrToHex( const Value : Ansistring ) : string
8351: Function CIntToBin( Value : Integer; Digits : Byte ) : string
8352: Function CBinToInt( const Value : string ) : Integer
8353: Function ParseURL( URL : string; var Prot, User, Pass, Host, Port, Path, Para:string):string
8354: Function CReplaceString( Value, Search, Replace : AnsiString ) : AnsiString
8355: Function CRPosEx( const Sub, Value : string; From : integer ) : Integer
8356: Function CRPos( const Sub, Value : String ) : Integer
8357: Function FetchBin( var Value : string; const Delimiter : string ) : string
8358: Function CFetch( var Value : string; const Delimiter : string ) : string
8359: Function FetchEx( var Value : string; const Delimiter, Quotation : string ) : string
8360: Function IsBinaryString( const Value : AnsiString ) : Boolean
8361: Function PosCRLF( const Value : AnsiString; var Terminator : AnsiString ) : integer
8362: Procedure Stringstrim( const value : TStrings )
8363: Function PosFrom( const SubStr, Value : String; From : integer ) : integer
8364: Function IncPoint( const p : __pointer; Value : integer ) : __pointer
8365: Function GetBetween( const PairBegin, PairEnd, Value : string ) : string
8366: Function CCCountOfChar( const Value : string; aChr : char ) : integer
8367: Function UnquoteStr( const Value : string; Quote : Char ) : string
8368: Function QuoteStr( const Value : string; Quote : Char ) : string
8369: Procedure HeadersToList( const Value : TStrings )
8370: Procedure ListToHeaders( const Value : TStrings )
8371: Function SwapBytes( Value : integer ) : integer
8372: Function ReadStrFromStream( const Stream : TStream; len : integer ) : AnsiString
8373: Procedure WriteStrToStream( const Stream : TStream; Value : AnsiString )
8374: Function GetTempFile( const Dir, prefix : AnsiString ) : AnsiString
8375: Function CPadString( const Value : AnsiString; len : integer; Pad : AnsiChar ) : AnsiString
8376: Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8377: Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8378: end;
8379:

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8380: procedure SIRegister_StCRC(CL: TPSCompiler);
8381: begin
8382:   ('CrcBufSize', 'LongInt' ( 2048 );
8383:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8384:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8385:   Function Adler32OfFile( FileName : AnsiString ) : LongInt
8386:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8387:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8388:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8389:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8390:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8391:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8392:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8393:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8394:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8395:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8396:   Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8397:   Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
8398: end;
8399:
8400: procedure SIRegister_ComObj(cl: TPSCompiler);
8401: begin
8402:   function CreateOleObject(const ClassName: String): IDispatch;
8403:   function GetActiveOleObject(const ClassName: String): IDispatch;
8404:   function ProgIDToClassID(const ProgID: string): TGUID;
8405:   function ClassIDToProgID(const ClassID: TGUID): string;
8406:   function CreateClassID: string;
8407:   function CreateGUIDString: string;
8408:   function CreateGUIDID: string;
8409:   procedure OleError(ErrorCode: longint)
8410:   procedure OleCheck(Result: HResult);
8411: end;
8412:
8413: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8414: Function xGetActiveOleObject( const ClassName : string ) : Variant
8415: //Function DlIGetClassObject( const CLSID : TGUID; const IID : TIID; var Obj ) : HResult
8416: Function DllCanUnloadNow : HResult
8417: Function DllRegisterServer : HResult
8418: Function DllUnregisterServer : HResult
8419: Function VarFromInterface( Unknown : IUnknown ) : Variant
8420: Function VarToInterface( const V : Variant ) : IDispatch
8421: Function VarToAutoObject( const V : Variant ) : TAutoObject
8422: //Procedure
8423: DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8424: //Procedure DispInvokeError( Status : HResult; const ExcepInfo : TExcepInfo )
8425: Procedure OleError( ErrorCode : HResult )
8426: Procedure OleCheck( Result : HResult )
8427: Function StringToClassID( const S : string ) : TGUID
8428: Function ClassIDToString( const ClassID : TGUID ) : string
8429: Function xProgIDToClassID( const ProgID : string ) : TGUID
8430: Function xClassIDToProgID( const ClassID : TGUID ) : string
8431: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8432: Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8433: Function xGUIDToString( const ClassID : TGUID ) : string
8434: Function xStringToGUID( const S : string ) : TGUID
8435: Function xGetModuleName( Module : HMODULE ) : string
8436: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8437: Function xUtf8Encode( const WS : WideString ) : UTF8String
8438: Function xUtf8Decode( const S : UTF8String ) : WideString
8439: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8440: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8441: Function XRTLHandleCOMException : HResult
8442: Procedure XRTLCheckArgument( Flag : Boolean )
8443: //Procedure XRTLCheckOutArgument( out Arg )
8444: Procedure XRTLInterfaceConnect( const Source:IUnknown; const IID:TIID; const Sink:IUnknown; var Connection:Longint );
8445: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID; var Connection : Longint )
8446: Function XRTLRegisterActiveObject( const Unk:IUnknown; const ClassID: TGUID; const Flags:DWORD; var RegisterCookie:Int ) : HResult
8447: Function XRTLUUnRegisterActiveObject( var RegisterCookie : Integer ) : HResult
8448: //Function XRTLGetActiveObject( const ClassID : TGUID; const IID : TIID; out Obj ) : HResult
8449: Procedure XRTLEnumActiveObjects( Strings : TStrings )
8450: function XRTLDDefaultCategoryManager: IUnknown;
8451: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8452: // ICatRegister helper functions
8453: function XRTLCREATEComponentCategory(CatID: TGUID; const CatDescription: WideString;
8454:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8455:                                         const CategoryManager: IUnknown = nil): HResult;
8456: function XRTLRemoveComponentCategory(CatID: TGUID; const CatDescription: WideString;
8457:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8458:                                         const CategoryManager: IUnknown = nil): HResult;
8459: function XRTLRegisterCLSIDInCategory(CatID: TGUID; const CatID: TGUID;
8460:                                         const CategoryManager: IUnknown = nil): HResult;
8461: function XRTLUnRegisterCLSIDInCategory(CatID: TGUID; const CatID: TGUID;
8462:                                         const CategoryManager: IUnknown = nil): HResult;
8463: // ICatInformation helper functions
8464: function XRTLGGetCategoryDescription(CatID: TGUID; const CatDescription: WideString;
8465:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;

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8466:           const CategoryManager: IUnknown = nil): HResult;
8467: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TGUID = LOCALE_USER_DEFAULT;
8468:                               const CategoryManager: IUnknown = nil): HResult;
8469: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
8470:                                     const CategoryManager: IUnknown = nil): HResult;
8471: function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
8472:                                     const CategoryManager: IUnknown = nil): HResult;
8473: function XRTLFetch(var AInput: WideString; const Adelim: WideString = ' ');
8474:           const ADelete: Boolean = True): WideString;
8475: function XRTLPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8476: Function XRTLGetVariantAsString( const Value : Variant ) : string
8477: Function XRTLDTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8478: Function XRTLGetTimeZones : TXRTLTimeZones
8479: Function XFileTimeToDate( FileTime : TFileTime ) : TDateTime
8480: Function Date( Date : TDateTime ) : TFileTime
8481: Function GMTNow : TDateTime
8482: Function GMTToLocalTime( GMT : TDateTime ) : TDateTime
8483: Function LocalTimeToGMT( LocalTime : TDateTime ) : TDateTime
8484: Procedure XRTLNotImplemented
8485: Procedure XTRTLRaiseError( E : Exception )
8486: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string)
8487:
8488:
8489: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8490: begin
8491:   SIRegister_IXRTLValue(CL);
8492:   SIRegister_TXRTLValue(CL);
8493:   //AddTypeS('PXRTLValueArray', '^IXRTLValueArray // will not work
8494:   AddTypes('TXRTLValueArray', 'array of IXRTLValue
8495: Function XRTLValue( const AValue : Cardinal ) : IXRTLValue;
8496: Function XRTLSSetValue( const IValue : IXRTLValue; const AValue : Cardinal ) : Cardinal;
8497: Function XRTLGetAsCardinal( const IValue : IXRTLValue ) : Cardinal;
8498: Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal ) : Cardinal;
8499: Function XRTLValue1( const AValue : Integer ) : IXRTLValue;
8500: Function XRTLS.SetValue1( const IValue : IXRTLValue; const AValue : Integer ) : Integer;
8501: Function XRTLGetAsInteger( const IValue : IXRTLValue ) : Integer;
8502: Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer;
8503: Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8504: Function XRTLS.SetValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8505: Function XRTLGetsInt64( const IValue : IXRTLValue ) : Int64;
8506: Function XRTLGetsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64;
8507: Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8508: Function XRTLS.SetValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8509: Function XRTLGetAsSingle( const IValue : IXRTLValue ) : Single;
8510: Function XRTLGetsAsSingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single;
8511: Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8512: Function XRTLS.SetValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8513: Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double;
8514: Function XRTLGetsAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double;
8515: Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8516: Function XRTLS.SetValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8517: Function XRTLGetsAsExtended( const IValue : IXRTLValue ) : Extended;
8518: Function XRTLGetsAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended;
8519: Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8520: Function XRTLGetsValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8521: Function XRTLGetsAsInterface( const IValue : IXRTLValue ) : IInterface;
8522: //Function XRTLGetsAsInterface1( const IValue : IXRTLValue; out Obj ) : IInterface;
8523: Function XRTLGetsAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8524: Function XRTLValue7( const AValue : WideString ) : IXRTLValue;
8525: Function XRTLGetsValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8526: Function XRTLGetsAsWideString( const IValue : IXRTLValue ) : WideString;
8527: Function XRTLGetsAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString;
8528: Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8529: Function XRTLGetsValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8530: Function XRTLGetsAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8531: Function XRTLGetsAsObjectDef( const IValue:IXRTLValue;const DefValue:TObject;const
8532: ADetachOwnership:Boolean):TObject;
8533: //Function XRTLGetsValue9( const AValue : _Pointer ) : IXRTLValue;
8534: //Function XRTLGetsValue9( const IValue : IXRTLValue; const AValue : _Pointer ) : _Pointer;
8535: //Function XRTLGetsAsPointer( const IValue : IXRTLValue ) : _Pointer
8536: Function XRTLGetsValueV( const AValue : Variant ) : IXRTLValue;
8537: Function XRTLGetsValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8538: Function XRTLGetsAsVariant( const IValue : IXRTLValue ) : Variant;
8539: Function XRTLGetsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant;
8540: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8541: Function XRTLGetsValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8542: Function XRTLGetsAsCurrency( const IValue : IXRTLValue ) : Currency;
8543: Function XRTLGetsAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency;
8544: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8545: Function XRTLGetsValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8546: Function XRTLGetsAsComp( const IValue : IXRTLValue ) : Comp;
8547: Function XRTLGetsAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp;
8548: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8549: Function XRTLGetsValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8550: Function XRTLGetsAsClass( const IValue : IXRTLValue ) : TClass;
8551: Function XRTLGetsAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass;
8552: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8553: Function XRTLGetsValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;

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8554: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID
8555: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID
8556: Function XRTLValue14( const AValue : Boolean) : IXRTLValue;
8557: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean) : Boolean;
8558: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean
8559: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean
8560: end;
8561:
8562: //*****unit uPSI_GR32;*****
8563:
8564: Function Color32( WinColor : TColor ) : TColor32;
8565: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8566: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8567: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32;
8568: Function WinColor( Color32 : TColor32 ) : TColor;
8569: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32;
8570: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte );
8571: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte );
8572: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components;
8573: Function RedComponent( Color32 : TColor32 ) : Integer;
8574: Function GreenComponent( Color32 : TColor32 ) : Integer;
8575: Function BlueComponent( Color32 : TColor32 ) : Integer;
8576: Function AlphaComponent( Color32 : TColor32 ) : Integer;
8577: Function Intensity( Color32 : TColor32 ) : Integer;
8578: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32;
8579: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8580: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8581: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;
8582: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8583: Function WinPalette( const P : TPalette32 ) : HPALETTE;
8584: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8585: Function FloatPoint1( const P : TPoint ) : TFfloatPoint;
8586: Function FloatPoint2( const FXP : TFfixedPoint ) : TFfloatPoint;
8587: Function FixedPoint( X, Y : Integer ) : TFfixedPoint;
8588: Function FixedPoint1( X, Y : Single ) : TFfixedPoint;
8589: Function FixedPoint2( const P : TPoint ) : TFfixedPoint;
8590: Function FixedPoint3( const FP : TFfloatPoint ) : TFfixedPoint;
8591: AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )');
8592: Function MakeRect( const L, T, R, B : Integer ) : TRect;
8593: Function MakeRect1( const FR : TFfloatRect; Rounding : TRectRounding ) : TRect;
8594: Function MakeRect2( const FXP : TRect; Rounding : TRectRounding ) : TRect;
8595: Function GFixedRect( const L, T, R, B : TFfixed ) : TRect;
8596: Function FixedRect1( const ARect : TRect ) : TRect;
8597: Function FixedRect2( const FR : TFfloatRect ) : TRect;
8598: Function GFloatRect( const L, T, R, B : TFloat ) : TFfloatRect;
8599: Function FloatRect1( const ARect : TRect ) : TFfloatRect;
8600: Function FloatRect2( const FXR : TRect ) : TFfloatRect;
8601: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect ) : Boolean;
8602: Function IntersectRect1( out Dst : TFfloatRect; const FR1, FR2 : TFfloatRect ) : Boolean;
8603: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
8604: Function UnionRect1( out Rect : TFfloatRect; const R1, R2 : TFfloatRect ) : Boolean;
8605: Function GEqualRect( const R1, R2 : TRect ) : Boolean;
8606: Function EqualRect1( const R1, R2 : TFfloatRect ) : Boolean;
8607: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer );
8608: Procedure InflateRect1( var FR : TFfloatRect; Dx, Dy : TFloat );
8609: Procedure GOOffsetRect( var R : TRect; Dx, Dy : Integer );
8610: Procedure OffsetRect1( var FR : TFfloatRect; Dx, Dy : TFloat );
8611: Function IsRectEmpty( const R : TRect ) : Boolean;
8612: Function IsRectEmpty1( const FR : TFfloatRect ) : Boolean;
8613: Function GPtInRect( const R : TRect; const P : TPoint ) : Boolean;
8614: Function PtInRect1( const R : TFfloatRect; const P : TPoint ) : Boolean;
8615: Function PtInRect2( const R : TRect; const P : TFfloatPoint ) : Boolean;
8616: Function PtInRect3( const R : TFfloatRect; const P : TFfloatPoint ) : Boolean;
8617: Function EqualRectSize( const R1, R2 : TRect ) : Boolean;
8618: Function EqualRectSize1( const R1, R2 : TFfloatRect ) : Boolean;
8619: Function MessageBeep( uType : UINT ) : BOOL;
8620: Function ShowCursor( bShow : BOOL ) : Integer;
8621: Function SetCursorPos( X, Y : Integer ) : BOOL;
8622: Function SetCursor( hCursor : HICON ) : HCURSOR;
8623: Function GetCursorPos( var lpPoint : TPoint ) : BOOL;
8624: //Function ClipCursor( lpRect : PRect ) : BOOL;
8625: Function GetClipCursor( var lpRect : TRect ) : BOOL;
8626: Function GetCursor : HCURSOR;
8627: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer ) : BOOL;
8628: Function GetCaretBlinkTime : UINT;
8629: Function SetCaretBlinkTime( uMSeconds : UINT ) : BOOL;
8630: Function DestroyCaret : BOOL;
8631: Function HideCaret( hWnd : HWND ) : BOOL;
8632: Function ShowCaret( hWnd : HWND ) : BOOL;
8633: Function SetCaretPos( X, Y : Integer ) : BOOL;
8634: Function GetCaretPos( var lpPoint : TPoint ) : BOOL;
8635: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint ) : BOOL;
8636: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint ) : BOOL;
8637: Function MapWindowPoints(hWndFrom, hWndTo:HWND; var lpPoints, cPoints : UINT ) : Integer;
8638: Function WindowFromPoint( Point : TPoint ) : HWND;
8639: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint ) : HWND;
8640:
8641:
8642: procedure SIRegister_GR32_Math(CL: TPPascalCompiler);

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8643: begin
8644:   Function FixedFloor( A : TFixed ) : Integer
8645:   Function FixedCeil( A : TFixed ) : Integer
8646:   Function FixedMul( A, B : TFixed ) : TFixed
8647:   Function FixedDiv( A, B : TFixed ) : TFixed
8648:   Function OneOver( Value : TFixed ) : TFixed
8649:   Function FixedRound( A : TFixed ) : Integer
8650:   Function FixedSqr( Value : TFixed ) : TFixed
8651:   Function FixedSqrtLP( Value : TFixed ) : TFixed
8652:   Function FixedSqrtHP( Value : TFixed ) : TFixed
8653:   Function FixedCombine( W, X, Y : TFixed ) : TFixed
8654:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8655:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8656:   Function GRHypot( const X, Y : TFloat ) : TFloat;
8657:   Function Hypot1( const X, Y : Integer ) : Integer;
8658:   Function FastSqrt( const Value : TFloat ) : TFloat
8659:   Function FastSqrtBab1( const Value : TFloat ) : TFloat
8660:   Function FastSqrtBab2( const Value : TFloat ) : TFloat
8661:   Function FastInvSqrt( const Value : Single ) : Single;
8662:   Function MulDiv( Multipliand, Multiplier, Divisor : Integer ) : Integer
8663:   Function GRIsPowerOf2( Value : Integer ) : Boolean
8664:   Function PrevPowerOf2( Value : Integer ) : Integer
8665:   Function NextPowerOf2( Value : Integer ) : Integer
8666:   Function Average( A, B : Integer ) : Integer
8667:   Function GRSign( Value : Integer ) : Integer
8668:   Function FloatMod( x, y : Double ) : Double
8669: end;
8670:
8671: procedure SIRегистer_GR32_LowLevel(CL: TPSPPascalCompiler);
8672: begin
8673:   Function Clamp( const Value : Integer ) : Integer;
8674:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword )
8675:   Function StackAlloc( Size : Integer ) : Pointer
8676:   Procedure StackFree( P : Pointer )
8677:   Procedure Swap( var A, B : Pointer );
8678:   Procedure Swap1( var A, B : Integer );
8679:   Procedure Swap2( var A, B : TFixed );
8680:   Procedure Swap3( var A, B : TColor32 );
8681:   Procedure TestSwap( var A, B : Integer );
8682:   Procedure TestSwap1( var A, B : TFixed );
8683:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8684:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8685:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8686:   Function Constrain1( const Value, Lo, Hi : Single ) : Single;
8687:   Function SwapConstrain( const Value:Integer; Constrain1,Constrain2:Integer ) : Integer
8688:   Function GRMin( const A, B, C : Integer ) : Integer;
8689:   Function GRMax( const A, B, C : Integer ) : Integer;
8690:   Function Clamp( Value, Max : Integer ) : Integer;
8691:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8692:   Function Wrap( Value, Max : Integer ) : Integer;
8693:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8694:   Function Wrap3( Value, Max : Single ) : Single;;
8695:   Function WrapPow2( Value, Max : Integer ) : Integer;
8696:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8697:   Function Mirror( Value, Max : Integer ) : Integer;
8698:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8699:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8700:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8701:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8702:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8703:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8704:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8705:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8706:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8707:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8708:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ) : TWrapProcEx;
8709:   Function Div255( Value : Cardinal ) : Cardinal
8710:   Function SAR_4( Value : Integer ) : Integer
8711:   Function SAR_8( Value : Integer ) : Integer
8712:   Function SAR_9( Value : Integer ) : Integer
8713:   Function SAR_11( Value : Integer ) : Integer
8714:   Function SAR_12( Value : Integer ) : Integer
8715:   Function SAR_13( Value : Integer ) : Integer
8716:   Function SAR_14( Value : Integer ) : Integer
8717:   Function SAR_15( Value : Integer ) : Integer
8718:   Function SAR_16( Value : Integer ) : Integer
8719:   Function ColorSwap( WinColor : TColor ) : TColor32
8720: end;
8721:
8722: procedure SIRегистer_GR32_Filters(CL: TPSPPascalCompiler);
8723: begin
8724:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )')
8725:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );
8726:   Procedure CopyComponents1(Dst:TCustBmap32;DstX,
     DstY:Int;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp);
8727:   Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32 )
8728:   Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean )
8729:   Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32 )
8730:   Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components )

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8731: Procedure InvertRGB( Dst, Src : TCustomBitmap32 )
8732: Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean )
8733: Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32 )
8734: Function CreateBitmask( Components : TColor32Components ) : TColor32
8735: Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
  Bitmask : TColor32; LogicalOperator : TLogicalOperator);
8736: Procedure
  ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8737: Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean )
8738: end;
8739:
8740:
8741: procedure SIRегистer_JclNTFS(CL: TPSPPascalCompiler);
8742: begin
8743:   AddClassN(FindClass('TOBJECT'),'EJclNtfsError'
8744:   AddTypes('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )'
8745:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8746:   Function NtfsGetCompression1( const FileName : string ) : TFileCompressionState;
8747:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean
8748:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState )
8749:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState)
8750:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State: TFileCompressionState)
8751:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState:Recursive:Boolean;
8752: //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloc'
8753: //+'+tedRangeBuffer; MoreData : Boolean; end
8754:   Function NtfsSetSparse( const FileName : string ) : Boolean
8755:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean
8756:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean
8757: //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64;var
  Ranges:TnntfsAllocRanges):Boolean;
8758: //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
  Index:Integer):TFileAllocatedRangeBuffer
8759:   Function NtfsSparseStreamsSupported( const Volume : string ) : Boolean
8760:   Function NtfsGetSparse( const FileName : string ) : Boolean
8761:   Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean
8762:   Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean
8763: //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8764:   Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean
8765:   Function NtfsReparsePointsSupported( const Volume : string ) : Boolean
8766:   Function NtfsFileHasReparsePoint( const Path : string ) : Boolean
8767:   Function NtfsIsFolderMountPoint( const Path : string ) : Boolean
8768:   Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean
8769:   Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean
8770:   AddTypeS('TopLock', '( olExclusive, olReadOnly, olBatch, olFilter )'
8771:   Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8772:   Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8773:   Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8774:   Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8775:   Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean
8776:   Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean
8777:   Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean
8778:   Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean
8779:   AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8780:   +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile '
8781:   AddTypeS('TStreamIds', 'set of TStreamId
8782:   AddTypes('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8783:   +': __Pointer; StreamIds : TStreamIds; end
8784:   AddTypes('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8785:   +'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8786:   Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8787:   Function NtfsFindNextStream( var Data : TFindStreamData ) : Boolean
8788:   Function NtfsFindStreamClose( var Data : TFindStreamData ) : Boolean
8789:   Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean
8790:   AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8791:   Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean
8792:   Function NtfsFindHardLinks(const Path:string;const FileIndexHigh:FileIndexLow:Cardinal;const
  List:TStrings):Bool;
8793:   Function NtfsDeleteHardLinks( const FileName : string ) : Boolean
8794:   Function JclAppInstances : TJclAppInstances;
8795:   Function JclAppInstances1( const UniqueAppIdGuidStr : string ) : TJclAppInstances;
8796:   Function ReadMessageCheck( var Message: TMessage;const IgnoredOriginatorWnd: HWND ) : TJclAppInstDataKind
8797:   Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer )
8798:   Procedure ReadMessageString( const Message : TMessage; var S : string )
8799:   Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings )
8800:
8801:
8802: (*-----*)
8803: procedure SIRегистer_JclGraphics(CL: TPSPPascalCompiler);
8804: begin
8805:   FindClass('TOBJECT','EJclGraphicsError
8806:   TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8807:   TDynPointArray', 'array of TPoint
8808:   TDynDynPointArrayArray', 'array of TDynPointArray
8809:   TPointF', 'record X : Single; Y : Single; end
8810:   TDynPointArrayF', 'array of TPointF
8811:   TDrawMode2', '( dmOpaque, dmBlend )
8812:   TStretchFilter2', '( sfNearest, sfLinear, sfSpline )
8813:   TConversionKind', '( ckRed, ckGreen, ckBlue, ckAlpha, ckUniformRGB, ckWeightedRGB )
8814:   TResamplingFilter', '( rfbBox, rftriangle, rfHermite, rfbell, rfspline, rflanczos3, rfMitchell )
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8815:  TMatrix3d', 'record array[0..2,0..2] of extended end
8816:  TDynDynPointArrayArrayF', 'array of TDynPointArrayF
8817:  TScanLine', 'array of Integer
8818:  TScanLines', 'array of TScanLine
8819:  TColorChannel', '( ccRed, ccGreen, ccBlue, ccAlpha )
8820:  TGradientDirection', '( gdVertical, gdHorizontal )
8821:  TPolyFillMode', '( fmAlternate, fmWinding )
8822:  TJclRegionCombineOperator', '( coAnd, coDiff, coOr, coXor )
8823:  TJclRegionBitmapMode', '( rmInclude, rmExclude )
8824:  TJclRegionKind', '( rkNull, rkSimple, rkComplex, rkError )
8825:  SIRegister_TJclDesktopCanvas(CL);
8826:  FindClass('TOBJECT'), TJclRegion
8827:  SIRegister_TJclRegionInfo(CL);
8828:  SIRegister_TJclRegion(CL);
8829:  SIRegister_TJclThreadPersistent(CL);
8830:  SIRegister_TJclCustomMap(CL);
8831:  SIRegister_TJclBitmap32(CL);
8832:  SIRegister_TJclByteMap(CL);
8833:  SIRegister_TJclTransformation(CL);
8834:  SIRegister_TJclLinearTransformation(CL);
8835:  Procedure Stretch(NewWidth,
NewHeight:Card;Filter:TResamplingFilter;Radius:Single;Source:TGraphic;Target:TBitmap);
8836:  Procedure Stretch1(NewWidth,NewHeight:Cardinal;Filter:TResamplingFilter;Radius:Single;Bitmap:TBitmap);
8837:  Procedure DrawBitmap( DC : HDC; Bitmap : HBitmap; X, Y, Width, Height : Integer)
8838:  Function GetAntialiasedBitmap( const Bitmap : TBitmap) : TBitmap
8839:  Procedure BitmapToJpeg( const FileName : string)
8840:  Procedure JpegToBitmap( const FileName : string)
8841:  Function ExtractIconCount( const FileName : string) : Integer
8842:  Function BitmapToIconJ( Bitmap : HBITMAP; cx, cy : Integer) : HICON
8843:  Function IconToBitmapJ( Icon : HICON) : HBITMAP
8844:  Procedure
BlockTransfer(Dst:TJclBitmap32;DstX:Int;DstY:Int;Src:TJclBitmap32;SrcRect:TRect;CombineOp:TDrawMode)
8845:  Procedure StretchTransfer(Dst:TJclBitmap32;
DstRect:TRect;Src:TJclBitmap32;SrcRect:TRect;StretchFilter:TStretchFilter; CombineOp : TDrawMode)
8846:  Procedure Transform( Dst, Src : TJclBitmap32; SrcRect : TRect; Transformation : TJclTransformation)
8847:  Procedure SetBorderTransparent( ABitmap : TJclBitmap32; ARect : TRect)
8848:  Function FillGradient(DC:HDC; ARect:TRect; ColorCount:Integer; StartColor,EndColor:TColor;ADirection :
TGradientDirection) : Boolean;
8849:  Function CreateRegionFromBitmap(Bitmap: TBitmap; RegionColor:TColor;
RegionBitmapMode:TJclRegionBitmapMode) : HGRN
8850:  Procedure ScreenShot( bm : TBitmap; Left, Top, Width, Height : Integer; Window : HWND);
8851:  Procedure ScreenShot1( bm : TBitmap);
8852:  Procedure PolyLineTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8853:  Procedure PolyLineAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8854:  Procedure PolyLineFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8855:  Procedure PolygonTS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8856:  Procedure PolygonAS( Bitmap : TJclBitmap32; const Points : TDynPointArray; Color : TColor32)
8857:  Procedure PolygonFS( Bitmap : TJclBitmap32; const Points : TDynPointArrayF; Color : TColor32)
8858:  Procedure PolyPolygonTS(Bitmap:TJclBitmap32;const Points:TdynDynPointArrayArray:Color:TColor32);
8859:  Procedure PolyPolygonAS(Bitmap:TJclBitmap32;const Points:TdynDynPointArrayArray:Color:TColor32);
8860:  Procedure PolyPolygonFS(Bitmap:TJclBitmap32;const Points:TdynDynPointArrayArrayF:Color:TColor32);
8861:  Procedure AlphaToGrayscale( Dst, Src : TJclBitmap32)
8862:  Procedure IntensityToAlpha( Dst, Src : TJclBitmap32)
8863:  Procedure Invert( Dst, Src : TJclBitmap32)
8864:  Procedure InvertRGB( Dst, Src : TJclBitmap32)
8865:  Procedure ColorToGrayscale( Dst, Src : TJclBitmap32)
8866:  Procedure ApplyLUT( Dst, Src : TJclBitmap32; const LUT : TLUT8)
8867:  Procedure SetGamma( Gamma : Single)
8868:  end;
8869:
8870:  (*-----*)
8871: procedure SIRegister_JclSynch(CL: TPSPascalCompiler);
8872: begin
8873:  Function LockedAdd( var Target : Integer; Value : Integer) : Integer
8874:  Function LockedCompareExchange( var Target : Integer; Exch, Comp : Integer) : Integer
8875:  Function LockedCompareExchange1( var Target : __Pointer; Exch, Comp : __Pointer) : Pointer;
8876:  Function LockedDec( var Target : Integer) : Integer
8877:  Function LockedExchange( var Target : Integer; Value : Integer) : Integer
8878:  Function LockedExchangeAdd( var Target : Integer; Value : Integer) : Integer
8879:  Function LockedExchangeDec( var Target : Integer) : Integer
8880:  Function LockedExchangeInc( var Target : Integer) : Integer
8881:  Function LockedExchangeSub( var Target : Integer; Value : Integer) : Integer
8882:  Function LockedInc( var Target : Integer) : Integer
8883:  Function LockedSub( var Target : Integer; Value : Integer) : Integer
8884:  TJclWaitResult', '( wrAbandoned, wrError, wrIoCompletion, wrSignaled, wrTimeout )
8885:  SIRegister_TJclDispatcherObject(CL);
8886:  Function WaitForMultipleObjects(const Objects:array of
TJclDispatcherObject;WaitAll:Bool;TimeOut:Cardinal):Cardinal;
8887:  Function WaitAlertableForMultipleObjects(const Objects : array of TJclDispatcherObject; WaitAll:Bool;
TimeOut : Cardinal):Cardinal
8888:  SIRegister_TJclCriticalSection(CL);
8889:  SIRegister_TJclCriticalSectionEx(CL);
8890:  SIRegister_TJclEvent(CL);
8891:  SIRegister_TJclWaitableTimer(CL);
8892:  SIRegister_TJclSemaphore(CL);
8893:  SIRegister_TJclMutex(CL);
8894:  POptexSharedInfo', '^POptexSharedInfo // will not work
8895:  POptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8896:  SIRegister_TJclOptex(CL);

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8897: TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8898: TMrewThreadInfo', 'record ThreadId : Longword; RecursionCount: Integer; Reader : Boolean; end
8899: TMrewThreadInfoArray', 'array of TMrewThreadInfo
8900: SIRegister_TJclMultiReadExclusiveWrite(CL);
8901: PMetSectSharedInfo', '^TMetSectSharedInfo // will not work
8902: TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
8903: +'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8904: PMeteredSection', '^TMeteredSection // will not work
8905: TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8906: SIRegister_TJclMeteredSection(CL);
8907: TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8908: TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8909: TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8910: TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8911: Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection) : Boolean
8912: Function QueryEvent( Handle : THandle; var Info : TEventInfo) : Boolean
8913: Function QueryMutex( Handle : THandle; var Info : TMutexInfo) : Boolean
8914: Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts) : Boolean
8915: Function QueryTimer( Handle : THandle; var Info : TTimerInfo) : Boolean
8916: FindClass('TOBJECT'), 'EJclWin32HandleObjectError
8917: FindClass('TOBJECT'), 'EJclDispatcherObjectError
8918: FindClass('TOBJECT'), 'EJclCriticalSectionError
8919: FindClass('TOBJECT'), 'EJclEventError
8920: FindClass('TOBJECT'), 'EJclWaitableTimerError
8921: FindClass('TOBJECT'), 'EJclSemaphoreError
8922: FindClass('TOBJECT'), 'EJclMutexError
8923: FindClass('TOBJECT'), 'EJclMeteredSectionError
8924: end;
8925:
8926:
8927: //*****unit uPSI_mORMotReport;
8928: Procedure SetCurrentPrinterAsDefault
8929: Function CurrentPrinterName : string
8930: Function mCurrentPrinterPaperSize : string
8931: Procedure UseDefaultPrinter
8932:
8933: procedure SIRegisterTSTREAM(Cl: TPSPascalCompiler);
8934: begin
8935:   with FindClass('TOBJECT'), 'TStream') do begin
8936:     IsAbstract := True;
8937:     //RegisterMethod('Function Read( var Buffer, Count : Longint) : Longint
8938:     // RegisterMethod('Function Write( const Buffer, Count : Longint) : Longint
8939:     function Read(Buffer:String;Count:LongInt):LongInt
8940:     function Write(Buffer:String;Count:LongInt):LongInt
8941:     function ReadString(Buffer:String;Count:LongInt):LongInt //FileStream
8942:     function WriteString(Buffer:String;Count:LongInt):LongInt
8943:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
8944:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
8945:     function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
8946:     function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
8947:
8948:     procedure ReadAB(Buffer: TByteArray;Count:LongInt)
8949:     procedure WriteAB(Buffer: TByteArray;Count:LongInt)
8950:     procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8951:     procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8952:     procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8953:     procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8954:     procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8955:     procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8956:
8957:     function Seek(Offset:LongInt;Origin:Word):LongInt
8958:     procedure ReadBuffer(Buffer:String;Count:LongInt)
8959:     procedure WriteBuffer(Buffer:String;Count:LongInt)
8960:     procedure ReadBufferInt(Buffer:Integer;Count:LongInt)');
8961:     procedure WriteBufferInt(Buffer:Integer;Count:LongInt)');
8962:     procedure ReadBufferFloat(Buffer:Double;Count:LongInt)';
8963:     procedure WriteBufferFloat(Buffer:Double;Count:LongInt)';
8964:
8965:     procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
8966:     procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
8967:     procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8968:     procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8969:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8970:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8971:     procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8972:     procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8973:     procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8974:     procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8975:     procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8976:     procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8977:     procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8978:     procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8979:
8980:     procedure ReadBufferP(Buffer: PChar;Count:LongInt)
8981:     procedure WriteBufferP(Buffer: PChar;Count:LongInt)
8982:     procedure ReadBufferO(Buffer: TObject;Count:LongInt)';
8983:     procedure WriteBufferO(Buffer: TObject;Count:LongInt)';
8984:   //READBUFFERAC
8985:   function InstanceSize: Longint

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8986: Procedure FixupResourceHeader( FixupInfo : Integer )
8987: Procedure ReadResHeader
8988:
8989: {$IFDEF DELPHI4UP}
8990: function CopyFrom(Source:TStream;Count:Int64):LongInt
8991: {$ELSE}
8992: function CopyFrom(Source:TStream;Count:Integer):LongInt
8993: {$ENDIF}
8994: RegisterProperty('Position', 'LongInt', iptrw);
8995: RegisterProperty('Size', 'LongInt', iptrw);
8996: end;
8997: end;
8998:
8999:
9000: { ****
9001: Unit DMATH - Interface for DMATH.DLL
9002: **** }
9003: // see more docs/dmath_manual.pdf
9004:
9005: Function InitEval : Integer
9006: Procedure SetVariable( VarName : Char; Value : Float)
9007: Procedure SetFunction( FuncName : String; Wrapper : TWrapper)
9008: Function Eval( ExpressionString : String ) : Float
9009:
9010: unit dmath; //types are in built, others are external in DLL
9011: interface
9012: {$IFDEF DELPHI}
9013: uses
9014:   StdCtrls, Graphics;
9015: {$ENDIF}
9016: {
9017:   Types and constants
9018: }
9019: {$i types.inc}
9020: {
9021:   Error handling
9022: }
9023: procedure SetErrCode(ErrCode : Integer); external 'dmath';
9024: { Sets the error code }
9025: function DefaultVal(ErrCode : Integer; DefVal : Float) : Float; external 'dmath';
9026: { Sets error code and default function value }
9027: function MathErr : Integer; external 'dmath';
9028: { Returns the error code }
9029: {
9030:   Dynamic arrays
9031: }
9032: procedure SetAutoInit(AutoInit : Boolean); external 'dmath';
9033: { Sets the auto-initialization of arrays }
9034: procedure DimVector(var V : TVector; Ub : Integer); external 'dmath';
9035: { Creates floating point vector V[0..Ub] }
9036: procedure DimIntVector(var V : TIntVector; Ub : Integer); external 'dmath';
9037: { Creates integer vector V[0..Ub] }
9038: procedure DimCompVector(var V : TCompVector; Ub : Integer); external 'dmath';
9039: { Creates complex vector V[0..Ub] }
9040: procedure DimBoolVector(var V : TBoolVector; Ub : Integer); external 'dmath';
9041: { Creates boolean vector V[0..Ub] }
9042: procedure DimStrVector(var V : TStrVector; Ub : Integer); external 'dmath';
9043: { Creates string vector V[0..Ub] }
9044: procedure DimMatrix(var A : TMatrix; Ub1, Ub2 : Integer); external 'dmath';
9045: { Creates floating point matrix A[0..Ub1, 0..Ub2] }
9046: procedure DimIntMatrix(var A : TIntMatrix; Ub1, Ub2 : Integer); external 'dmath';
9047: { Creates integer matrix A[0..Ub1, 0..Ub2] }
9048: procedure DimCompMatrix(var A : TCompMatrix; Ub1, Ub2 : Integer); external 'dmath';
9049: { Creates complex matrix A[0..Ub1, 0..Ub2] }
9050: procedure DimBoolMatrix(var A : TBoolMatrix; Ub1, Ub2 : Integer); external 'dmath';
9051: { Creates boolean matrix A[0..Ub1, 0..Ub2] }
9052: procedure DimStrMatrix(var A : TStrMatrix; Ub1, Ub2 : Integer); external 'dmath';
9053: { Creates string matrix A[0..Ub1, 0..Ub2] }
9054: {
9055:   Minimum, maximum, sign and exchange
9056: }
9057: function FMin(X, Y : Float) : Float; external 'dmath';
9058: { Minimum of 2 reals }
9059: function FMax(X, Y : Float) : Float; external 'dmath';
9060: { Maximum of 2 reals }
9061: function IMin(X, Y : Integer) : Integer; external 'dmath';
9062: { Minimum of 2 integers }
9063: function IMax(X, Y : Integer) : Integer; external 'dmath';
9064: { Maximum of 2 integers }
9065: function Sgn(X : Float) : Integer; external 'dmath';
9066: { Sign (returns 1 if X = 0) }
9067: function Sgn0(X : Float) : Integer; external 'dmath';
9068: { Sign (returns 0 if X = 0) }
9069: function DSgn(A, B : Float) : Float; external 'dmath';
9070: { Sgn(B) * |A| }
9071: procedure FSwap(var X, Y : Float); external 'dmath';
9072: { Exchange 2 reals }
9073: procedure ISwap(var X, Y : Integer); external 'dmath';
9074: { Exchange 2 integers }

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9075: { -----
9076:   Rounding functions
9077: -----
9078: function RoundN(X : Float; N : Integer) : Float; external 'dmath';
9079: { Rounds X to N decimal places }
9080: function Ceil(X : Float) : Integer; external 'dmath';
9081: { Ceiling function }
9082: function Floor(X : Float) : Integer; external 'dmath';
9083: { Floor function }
9084: -----
9085: Logarithms, exponentials and power
9086: -----
9087: function Exp(X : Float) : Float; external 'dmath';
9088: { Exponential }
9089: function Exp2(X : Float) : Float; external 'dmath';
9090: { 2^X }
9091: function Exp10(X : Float) : Float; external 'dmath';
9092: { 10^X }
9093: function Log(X : Float) : Float; external 'dmath';
9094: { Natural log }
9095: function Log2(X : Float) : Float; external 'dmath';
9096: { Log, base 2 }
9097: function Log10(X : Float) : Float; external 'dmath';
9098: { Decimal log }
9099: function LogA(X, A : Float) : Float; external 'dmath';
9100: { Log, base A }
9101: function IntPower(X : Float; N : Integer) : Float; external 'dmath';
9102: { X^N }
9103: function Power(X, Y : Float) : Float; external 'dmath';
9104: { X^Y, X >= 0 }
9105: -----
9106: Trigonometric functions
9107: -----
9108: function Pythag(X, Y : Float) : Float; external 'dmath';
9109: { Sqrt(X^2 + Y^2) }
9110: function FixAngle(Theta : Float) : Float; external 'dmath';
9111: { Set Theta in -Pi..Pi }
9112: function Tan(X : Float) : Float; external 'dmath';
9113: { Tangent }
9114: function ArcSin(X : Float) : Float; external 'dmath';
9115: { Arc sinus }
9116: function ArcCos(X : Float) : Float; external 'dmath';
9117: { Arc cosinus }
9118: function ArcTan2(Y, X : Float) : Float; external 'dmath';
9119: { Angle (Ox, OM) with M(X,Y) }
9120: -----
9121: Hyperbolic functions
9122: -----
9123: function Sinh(X : Float) : Float; external 'dmath';
9124: { Hyperbolic sine }
9125: function Cosh(X : Float) : Float; external 'dmath';
9126: { Hyperbolic cosine }
9127: function Tanh(X : Float) : Float; external 'dmath';
9128: { Hyperbolic tangent }
9129: function ArcSinh(X : Float) : Float; external 'dmath';
9130: { Inverse hyperbolic sine }
9131: function ArcCosh(X : Float) : Float; external 'dmath';
9132: { Inverse hyperbolic cosine }
9133: function ArcTanh(X : Float) : Float; external 'dmath';
9134: { Inverse hyperbolic tangent }
9135: procedure SinhCosh(X : Float; var SinhX, CoshX : Float); external 'dmath';
9136: { Sinh & Cosh }
9137: -----
9138: Gamma function and related functions
9139: -----
9140: function Fact(N : Integer) : Float; external 'dmath';
9141: { Factorial }
9142: function SgnGamma(X : Float) : Integer; external 'dmath';
9143: { Sign of Gamma function }
9144: function Gamma(X : Float) : Float; external 'dmath';
9145: { Gamma function }
9146: function LnGamma(X : Float) : Float; external 'dmath';
9147: { Logarithm of Gamma function }
9148: function Stirling(X : Float) : Float; external 'dmath';
9149: { Stirling's formula for the Gamma function }
9150: function StirLog(X : Float) : Float; external 'dmath';
9151: { Approximate Ln(Gamma) by Stirling's formula, for X >= 13 }
9152: function DiGamma(X : Float) : Float; external 'dmath';
9153: { Digamma function }
9154: function TriGamma(X : Float) : Float; external 'dmath';
9155: { Trigamma function }
9156: function IGamma(A, X : Float) : Float; external 'dmath';
9157: { Incomplete Gamma function }
9158: function JGamma(A, X : Float) : Float; external 'dmath';
9159: { Complement of incomplete Gamma function }
9160: function InvGamma(A, P : Float) : Float; external 'dmath';
9161: { Inverse of incomplete Gamma function }
9162: function Erf(X : Float) : Float; external 'dmath';
9163: { Error function }

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9164: function Erfc(X : Float) : Float; external 'dmath';
9165: { Complement of error function }
9166: { -----
9167: Beta function and related functions
9168: ----- }
9169: function Beta(X, Y : Float) : Float; external 'dmath';
9170: { Beta function }
9171: function IBeta(A, B, X : Float) : Float; external 'dmath';
9172: { Incomplete Beta function }
9173: function InvBeta(A, B, Y : Float) : Float; external 'dmath';
9174: { Inverse of incomplete Beta function }
9175: { -----
9176: Lambert's function
9177: ----- }
9178: function LambertW(X : Float; UBranch, Offset : Boolean) : Float; external 'dmath';
9179: -----
9180: Binomial distribution
9181: -----
9182: function Binomial(N, K : Integer) : Float; external 'dmath';
9183: { Binomial coefficient C(N,K) }
9184: function PBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9185: { Probability of binomial distribution }
9186: function FBinom(N : Integer; P : Float; K : Integer) : Float; external 'dmath';
9187: { Cumulative probability for binomial distrib. }
9188: { -----
9189: Poisson distribution
9190: ----- }
9191: function PPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9192: { Probability of Poisson distribution }
9193: function FPoisson(Mu : Float; K : Integer) : Float; external 'dmath';
9194: { Cumulative probability for Poisson distrib. }
9195: { -----
9196: Exponential distribution
9197: ----- }
9198: function DExpo(A, X : Float) : Float; external 'dmath';
9199: { Density of exponential distribution with parameter A }
9200: function FExpo(A, X : Float) : Float; external 'dmath';
9201: { Cumulative probability function for exponential dist. with parameter A }
9202: { -----
9203: Standard normal distribution
9204: ----- }
9205: function DNorm(X : Float) : Float; external 'dmath';
9206: { Density of standard normal distribution }
9207: function FNorm(X : Float) : Float; external 'dmath';
9208: { Cumulative probability for standard normal distrib. }
9209: function PNorm(X : Float) : Float; external 'dmath';
9210: { Prob(|U| > X) for standard normal distrib. }
9211: function InvNorm(P : Float) : Float; external 'dmath';
9212: { Inverse of standard normal distribution }
9213: { -----
9214: Student's distribution
9215: ----- }
9216: function DStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9217: { Density of Student distribution with Nu d.o.f. }
9218: function FStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9219: { Cumulative probability for Student distrib. with Nu d.o.f. }
9220: function PStudent(Nu : Integer; X : Float) : Float; external 'dmath';
9221: { Prob(|t| > X) for Student distrib. with Nu d.o.f. }
9222: function InvStudent(Nu : Integer; P : Float) : Float; external 'dmath';
9223: { Inverse of Student's t-distribution function }
9224: { -----
9225: Khi-2 distribution
9226: ----- }
9227: function DKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9228: { Density of Khi-2 distribution with Nu d.o.f. }
9229: function FKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9230: { Cumulative prob. for Khi-2 distrib. with Nu d.o.f. }
9231: function PKhi2(Nu : Integer; X : Float) : Float; external 'dmath';
9232: { Prob(Khi2 > X) for Khi-2 distrib. with Nu d.o.f. }
9233: function InvKhi2(Nu : Integer; P : Float) : Float; external 'dmath';
9234: { Inverse of Khi-2 distribution function }
9235: { -----
9236: Fisher-Snedecor distribution
9237: ----- }
9238: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9239: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
9240: function FSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9241: { Cumulative prob. for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9242: function PSnedecor(Nu1, Nu2 : Integer; X : Float) : Float; external 'dmath';
9243: { Prob(F > X) for Fisher-Snedecor distrib. with Nu1 and Nu2 d.o.f. }
9244: function InvSnedecor(Nu1, Nu2 : Integer; P : Float) : Float; external 'dmath';
9245: { Inverse of Snedecor's F-distribution function }
9246: { -----
9247: Beta distribution
9248: ----- }
9249: function DBeta(A, B, X : Float) : Float; external 'dmath';
9250: { Density of Beta distribution with parameters A and B }
9251: function FBeta(A, B, X : Float) : Float; external 'dmath';
9252: { Cumulative probability for Beta distrib. with param. A and B }

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9253: { -----
9254:   Gamma distribution
9255: -----
9256: function DGamma(A, B, X : Float; external 'dmath';
9257: { Density of Gamma distribution with parameters A and B }
9258: function FGamma(A, B, X : Float; external 'dmath';
9259: { Cumulative probability for Gamma distrib. with param. A and B }
9260: { -----
9261:   Expression evaluation
9262: -----
9263: function InitEval : Integer; external 'dmath';
9264: { Initializes built-in functions and returns their number }
9265: function Eval(ExpressionString : String) : Float; external 'dmath';
9266: { Evaluates an expression at run-time }
9267: procedure SetVariable(VarName : Char; Value : Float); external 'dmath';
9268: { Assigns a value to a variable }
9269: procedure SetFunction(FuncName : String; Wrapper : TWrapper); external 'dmath';
9270: { Adds a function to the parser }
9271: { -----
9272:   Matrices and linear equations
9273: -----
9274: procedure GaussJordan(A          : TMatrix;
9275:                         Lb, Ubl, Ub2 : Integer;
9276:                         var Det      : Float); external 'dmath';
9277: { Transforms a matrix according to the Gauss-Jordan method }
9278: procedure LinEq(A          : TMatrix;
9279:                     B          : TVector;
9280:                     Lb, Ub   : Integer;
9281:                     var Det    : Float); external 'dmath';
9282: { Solves a linear system according to the Gauss-Jordan method }
9283: procedure Cholesky(A, L : TMatrix; Lb, Ub : Integer); external 'dmath';
9284: { Cholesky factorization of a positive definite symmetric matrix }
9285: procedure LU_Decom(A : TMatrix; Lb, Ub : Integer); external 'dmath';
9286: { LU decomposition }
9287: procedure LU_Solve(A       : TMatrix;
9288:                      B       : TVector;
9289:                      Lb, Ub : Integer;
9290:                      X       : TVector); external 'dmath';
9291: { Solution of linear system from LU decomposition }
9292: procedure QR_Decom(A       : TMatrix;
9293:                      Lb, Ubl, Ub2 : Integer;
9294:                      R       : TMatrix); external 'dmath';
9295: { QR decomposition }
9296: procedure QR_Solve(Q, R     : TMatrix;
9297:                      B       : TVector;
9298:                      Lb, Ubl, Ub2 : Integer;
9299:                      X       : TVector); external 'dmath';
9300: { Solution of linear system from QR decomposition }
9301: procedure SV_Decom(A       : TMatrix;
9302:                      Lb, Ubl, Ub2 : Integer;
9303:                      S       : TVector;
9304:                      V       : TMatrix); external 'dmath';
9305: { Singular value decomposition }
9306: procedure SV_SetZero(S    : TVector;
9307:                         Lb, Ub : Integer;
9308:                         Tol    : Float); external 'dmath';
9309: { Set lowest singular values to zero }
9310: procedure SV_Solve(U      : TMatrix;
9311:                      S      : TVector;
9312:                      V      : TMatrix;
9313:                      B      : TVector;
9314:                      Lb, Ubl, Ub2 : Integer;
9315:                      X      : TVector); external 'dmath';
9316: { Solution of linear system from SVD }
9317: procedure SV_Approx(U     : TMatrix;
9318:                      S     : TVector;
9319:                      V     : TMatrix;
9320:                      Lb, Ubl, Ub2 : Integer;
9321:                      A     : TMatrix); external 'dmath';
9322: { Matrix approximation from SVD }
9323: procedure EigenVals(A    : TMatrix;
9324:                         Lb, Ub : Integer;
9325:                         Lambda : TCompVector); external 'dmath';
9326: { Eigenvalues of a general square matrix }
9327: procedure EigenVect(A   : TMatrix;
9328:                         Lb, Ub : Integer;
9329:                         Lambda : TCompVector;
9330:                         V   : TMatrix); external 'dmath';
9331: { Eigenvalues and eigenvectors of a general square matrix }
9332: procedure EigenSym(A   : TMatrix;
9333:                         Lb, Ub : Integer;
9334:                         Lambda : TVector;
9335:                         V   : TMatrix); external 'dmath';
9336: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9337: procedure Jacobi(A     : TMatrix;
9338:                      Lb, Ub, MaxIter : Integer;
9339:                      Tol    : Float;
9340:                      Lambda : TVector;
9341:                      V     : TMatrix); external 'dmath';

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9342: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9343: { -----
9344:   Optimization
9345:   -----
9346: procedure MinBrack(Func          : TFunc;
9347:                      var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9348: { Brackets a minimum of a function }
9349: procedure GoldSearch(Func        : TFunc;
9350:                         A, B           : Float;
9351:                         MaxIter       : Integer;
9352:                         Tol           : Float;
9353:                         var Xmin, Ymin : Float); external 'dmath';
9354: { Minimization of a function of one variable (golden search) }
9355: procedure LinMin(Func         : TFuncNVar;
9356:                      X, DeltaX : TVector;
9357:                      Lb, Ub    : Integer;
9358:                      var R      : Float;
9359:                      MaxIter   : Integer;
9360:                      Tol        : Float;
9361:                      var F_min : Float); external 'dmath';
9362: { Minimization of a function of several variables along a line }
9363: procedure Newton(Func        : TFuncNVar;
9364:                      HessGrad : THessGrad;
9365:                      X         : TVector;
9366:                      Lb, Ub   : Integer;
9367:                      MaxIter  : Integer;
9368:                      Tol       : Float;
9369:                      var F_min : Float;
9370:                      G         : TVector;
9371:                      H_inv    : TMatrix;
9372:                      var Det   : Float); external 'dmath';
9373: { Minimization of a function of several variables (Newton's method) }
9374: procedure SaveNewton(FileName : string); external 'dmath';
9375: { Save Newton iterations in a file }
9376: procedure Marquardt(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 (Marquardt's method) }
9387: procedure SaveMarquardt(FileName : string); external 'dmath';
9388: { Save Marquardt iterations in a file }
9389: procedure BFGS(Func       : TFuncNVar;
9390:                     Gradient : TGradient;
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); external 'dmath';
9398: { Minimization of a function of several variables (BFGS method) }
9399: procedure SaveBFGS(FileName : string); external 'dmath';
9400: { Save BFGS iterations in a file }
9401: procedure Simplex(Func     : TFuncNVar;
9402:                         X        : TVector;
9403:                         Lb, Ub  : Integer;
9404:                         MaxIter : Integer;
9405:                         Tol     : Float;
9406:                         var F_min : Float); external 'dmath';
9407: { Minimization of a function of several variables (Simplex) }
9408: procedure SaveSimplex(FileName : string); external 'dmath';
9409: { Save Simplex iterations in a file }
9410: { -----
9411:   Nonlinear equations
9412:   -----
9413: procedure RootBrack(Func      : TFunc;
9414:                         var X, Y, FX, FY : Float); external 'dmath';
9415: { Brackets a root of function Func between X and Y }
9416: procedure Bisect(Func      : TFunc;
9417:                         var X, Y : Float;
9418:                         MaxIter : Integer;
9419:                         Tol     : Float;
9420:                         var F   : Float); external 'dmath';
9421: { Bisection method }
9422: procedure Secant(Func     : TFunc;
9423:                         var X, Y : Float;
9424:                         MaxIter : Integer;
9425:                         Tol     : Float;
9426:                         var F   : Float); external 'dmath';
9427: { Secant method }
9428: procedure NewtEq(Func, Deriv : TFunc;
9429:                         var X     : Float;
9430:                         MaxIter : Integer;

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9431:           Tol      : Float;
9432:           var F      : Float); external 'dmath';
9433: { Newton-Raphson method for a single nonlinear equation }
9434: procedure NewtEqs(Equations : TEquations;
9435:                      Jacobian : TJacobian;
9436:                      X, F      : TVector;
9437:                      Lb, Ub    : Integer;
9438:                      MaxIter   : Integer;
9439:                      Tol       : Float); external 'dmath';
9440: { Newton-Raphson method for a system of nonlinear equations }
9441: procedure Broyden(Equations : TEquations;
9442:                      X, F      : TVector;
9443:                      Lb, Ub    : Integer;
9444:                      MaxIter   : Integer;
9445:                      Tol       : Float); external 'dmath';
9446: { Broyden's method for a system of nonlinear equations }
9447: { -----
9448: Polynomials and rational fractions
9449: -----
9450: function Poly(X     : Float;
9451:                  Coef   : TVector;
9452:                  Deg    : Integer) : Float; external 'dmath';
9453: { Evaluates a polynomial }
9454: function RFrac(X   : Float;
9455:                  Coef   : TVector;
9456:                  Deg1, Deg2 : Integer) : Float; external 'dmath';
9457: { Evaluates a rational fraction }
9458: function RootPoli(A, B : Float;
9459:                      var X : Float) : Integer; external 'dmath';
9460: { Solves the linear equation A + B * X = 0 }
9461: function RootPol2(Coef : TVector;
9462:                      Z    : TCompVector) : Integer; external 'dmath';
9463: { Solves a quadratic equation }
9464: function RootPol3(Coef : TVector;
9465:                      Z    : TCompVector) : Integer; external 'dmath';
9466: { Solves a cubic equation }
9467: function RootPol4(Coef : TVector;
9468:                      Z    : TCompVector) : Integer; external 'dmath';
9469: { Solves a quartic equation }
9470: function RootPol(Coef : TVector;
9471:                      Deg   : Integer;
9472:                      Z    : TCompVector) : Integer; external 'dmath';
9473: { Solves a polynomial equation }
9474: function SetRealRoots(Deg : Integer;
9475:                          Z    : TCompVector;
9476:                          Tol  : Float) : Integer; external 'dmath';
9477: { Set the imaginary part of a root to zero }
9478: procedure SortRoots(Deg : Integer;
9479:                        Z    : TCompVector); external 'dmath';
9480: { Sorts the roots of a polynomial }
9481: { -----
9482: Numerical integration and differential equations
9483: -----
9484: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9485: { Integration by trapezoidal rule }
9486: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9487: { Integral from A to B }
9488: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9489: { Integral from 0 to B }
9490: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9491: { Convolution product at time T }
9492: procedure ConvTrap(Func1, Func2:TFunc; T,Y:TVector; N:Integer);external 'dmath';
9493: { Convolution by trapezoidal rule }
9494: procedure RKF45(F      : TDiffEqs;
9495:                      Neqn   : Integer;
9496:                      Y, Yp  : TVector;
9497:                      var T   : Float;
9498:                      Tout, RelErr, AbsErr : Float;
9499:                      var Flag : Integer); external 'dmath';
9500: { Integration of a system of differential equations }
9501: { -----
9502: Fast Fourier Transform
9503: -----
9504: procedure FFT(NumSamples   : Integer;
9505:                   InArray, OutArray : TCompVector); external 'dmath';
9506: { Fast Fourier Transform }
9507: procedure IFFT(NumSamples   : Integer;
9508:                   InArray, OutArray : TCompVector); external 'dmath';
9509: { Inverse Fast Fourier Transform }
9510: procedure FFT_Integer(NumSamples   : Integer;
9511:                           RealIn, ImagIn : TIntVector;
9512:                           OutArray   : TCompVector); external 'dmath';
9513: { Fast Fourier Transform for integer data }
9514: procedure FFT_Integer_Cleanup; external 'dmath';
9515: { Clear memory after a call to FFT_Integer }
9516: procedure CalcFrequency(NumSamples,
9517:                           FrequencyIndex : Integer;
9518:                           InArray       : TCompVector;
9519:                           var FFT       : Complex); external 'dmath';

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9520: { Direct computation of Fourier transform }
9521: { -----
9522:   Random numbers
9523:   -----
9524: procedure SetRNG(RNG : RNG_Type); external 'dmath';
9525: { Select generator }
9526: procedure InitGen(Seed : RNG_IntType); external 'dmath';
9527: { Initialize generator }
9528: function IRanGen : RNG_IntType; external 'dmath';
9529: { 32-bit random integer in [-2^31 .. 2^31 - 1] }
9530: function IRanGen31 : RNG_IntType; external 'dmath';
9531: { 31-bit random integer in [0 .. 2^31 - 1] }
9532: function RanGen1 : Float; external 'dmath';
9533: { 32-bit random real in [0,1] }
9534: function RanGen2 : Float; external 'dmath';
9535: { 32-bit random real in [0,1] }
9536: function RanGen3 : Float; external 'dmath';
9537: { 32-bit random real in (0,1) }
9538: function RanGen53 : Float; external 'dmath';
9539: { 53-bit random real in [0,1) }
9540: procedure InitMWC(Seed : RNG_IntType); external 'dmath';
9541: { Initializes the 'Multiply with carry' random number generator }
9542: function IRanMWC : RNG_IntType; external 'dmath';
9543: { Returns a 32 bit random number in [-2^31 ; 2^31-1] }
9544: procedure InitMT(Seed : RNG_IntType); external 'dmath';
9545: { Initializes Mersenne Twister generator with a seed }
9546: procedure InitMTbyArray(InitKey : array of RNG_LongType;
9547:                           KeyLength : Word); external 'dmath';
9548: { Initialize MT generator with an array InitKey[0..(KeyLength - 1)] }
9549: function IRanMT : RNG_IntType; external 'dmath';
9550: { Random integer from MT generator }
9551: procedure InitUVAGbyString(KeyPhrase : string); external 'dmath';
9552: { Initializes the UVAG generator with a string }
9553: procedure InitUVAG(Seed : RNG_IntType); external 'dmath';
9554: { Initializes the UVAG generator with an integer }
9555: function IRanUVAG : RNG_IntType; external 'dmath';
9556: { Random integer from UVAG generator }
9557: function RanGaussStd : Float; external 'dmath';
9558: { Random number from standard normal distribution }
9559: function RanGauss(Mu, Sigma : Float) : Float; external 'dmath';
9560: { Random number from normal distrib. with mean Mu and S. D. Sigma }
9561: procedure RanMult(M : TVector; L : TMATRIX;
9562:                      Lb, Ub : Integer;
9563:                      X : TVector); external 'dmath';
9564: { Random vector from multinormal distribution (correlated) }
9565: procedure RanMultIndep(M, S : TVector;
9566:                          Lb, Ub : Integer;
9567:                          X : TVector); external 'dmath';
9568: { Random vector from multinormal distribution (uncorrelated) }
9569: procedure InitMHParams(NCycles, MaxSim, SavedSim : Integer); external 'dmath';
9570: { Initializes Metropolis-Hastings parameters }
9571: procedure GetMHParams(var NCycles, MaxSim, SavedSim:Integer); external 'dmath';
9572: { Returns Metropolis-Hastings parameters }
9573: procedure Hastings(Func : TFUNCNVAR;
9574:                        T : Float;
9575:                        X : TVector;
9576:                        V : TMATRIX;
9577:                        Lb, Ub : Integer;
9578:                        Xmat : TMATRIX;
9579:                        X_min : TVector;
9580:                        var F_min : Float); external 'dmath';
9581: { Simulation of a probability density function by Metropolis-Hastings }
9582: procedure InitSAParams(NT, NS, NCycles : Integer; RT : Float); external 'dmath';
9583: { Initializes Simulated Annealing parameters }
9584: procedure SA_CreateLogFile(FileName : String); external 'dmath';
9585: { Initializes log file }
9586: procedure SimAnn(Func : TFUNCNVAR;
9587:                      X, Xmin, Xmax : TVector;
9588:                      Lb, Ub : Integer;
9589:                      var F_min : Float); external 'dmath';
9590: { Minimization of a function of several var. by simulated annealing }
9591: procedure InitGAParams(NP, NG : Integer; SR, MR, HR : Float); external 'dmath';
9592: { Initializes Genetic Algorithm parameters }
9593: procedure GA_CreateLogFile(FileName : String); external 'dmath';
9594: { Initializes log file }
9595: procedure GenAlg(Func : TFUNCNVAR;
9596:                      X, Xmin, Xmax : TVector;
9597:                      Lb, Ub : Integer;
9598:                      var F_min : Float); external 'dmath';
9599: { Minimization of a function of several var. by genetic algorithm }
9600: { -----
9601:   Statistics
9602:   -----
9603: function Mean(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9604: { Mean of sample X }
9605: function Min(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9606: { Minimum of sample X }
9607: function Max(X : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9608: { Maximum of sample X }

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9609: function Median(X : TVector; Lb, Ub : Integer; Sorted : Boolean) : Float; external 'dmath';
9610: { Median of sample X }
9611: function StDev(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9612: { Standard deviation estimated from sample X }
9613: function StDevP(X : TVector; Lb, Ub : Integer; M : Float) : Float; external 'dmath';
9614: { Standard deviation of population }
9615: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float; external 'dmath';
9616: { Correlation coefficient }
9617: function Skewness(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9618: { Skewness of sample X }
9619: function Kurtosis(X : TVector; Lb, Ub : Integer; M,Sigma: Float): Float; external 'dmath';
9620: { Kurtosis of sample X }
9621: procedure QSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9622: { Quick sort (ascending order) }
9623: procedure DQSort(X : TVector; Lb, Ub : Integer); external 'dmath';
9624: { Quick sort (descending order) }
9625: procedure Interval(X1, X2 : Float;
9626:                         MinDiv, MaxDiv : Integer;
9627:                         var Min, Max, Step : Float); external 'dmath';
9628: { Determines an interval for a set of values }
9629: procedure AutoScale(X : TVector; Lb, Ub : Integer; Scale : TScale;
9630:                         var XMin, XMax, XStep : Float); external 'dmath';
9631: { Finds an appropriate scale for plotting the data in X[Lb..Ub] }
9632: procedure StudIndep(N1, N2 : Integer;
9633:                         M1, M2, S1, S2 : Float;
9634:                         var T : Float;
9635:                         var DoF : Integer); external 'dmath';
9636: { Student t-test for independent samples }
9637: procedure StudPaired(X, Y : TVector;
9638:                         Lb, Ub : Integer;
9639:                         var T : Float;
9640:                         var DoF : Integer); external 'dmath';
9641: { Student t-test for paired samples }
9642: procedure AnOVal(Ns : Integer;
9643:                         N : TIntVector;
9644:                         M, S : TVector;
9645:                         var V_f, V_r, F : Float;
9646:                         var DoF_f, DoF_r : Integer); external 'dmath';
9647: { One-way analysis of variance }
9648: procedure AnOva2(NA, NB, Nobs : Integer;
9649:                         M, S : TMatrix;
9650:                         V, F : TVector;
9651:                         DoF : TIntVector); external 'dmath';
9652: { Two-way analysis of variance }
9653: procedure Snedecor(N1, N2 : Integer;
9654:                         S1, S2 : Float;
9655:                         var F : Float;
9656:                         var DoF1, DoF2 : Integer); external 'dmath';
9657: { Snedecor's F-test (comparison of two variances) }
9658: procedure Bartlett(Ns : Integer;
9659:                         N : TIntVector;
9660:                         S : TVector;
9661:                         var Khi2 : Float;
9662:                         var DoF : Integer); external 'dmath';
9663: { Bartlett's test (comparison of several variances) }
9664: procedure Mann_Whitney(N1, N2 : Integer;
9665:                         X1, X2 : TVector;
9666:                         var U, Eps : Float); external 'dmath';
9667: { Mann-Whitney test }
9668: procedure Wilcoxon(X, Y : TVector;
9669:                         Lb, Ub : Integer;
9670:                         var Ndiff : Integer;
9671:                         var T, Eps : Float); external 'dmath';
9672: { Wilcoxon test }
9673: procedure Kruskal_Wallis(Ns : Integer;
9674:                         N : TIntVector;
9675:                         X : TMatrix;
9676:                         var H : Float;
9677:                         var DoF : Integer); external 'dmath';
9678: { Kruskal-Wallis test }
9679: procedure Khi2_Conform(N_cls : Integer;
9680:                         N_estim : Integer;
9681:                         Obs : TIntVector;
9682:                         Calc : TVector;
9683:                         var Khi2 : Float;
9684:                         var DoF : Integer); external 'dmath';
9685: { Khi-2 test for conformity }
9686: procedure Khi2_Indep(N_lin : Integer;
9687:                         N_col : Integer;
9688:                         Obs : TIntMatrix;
9689:                         var Khi2 : Float;
9690:                         var DoF : Integer); external 'dmath';
9691: { Khi-2 test for independence }
9692: procedure Woolf_Conform(N_cls : Integer;
9693:                         N_estim : Integer;
9694:                         Obs : TIntVector;
9695:                         Calc : TVector;
9696:                         var G : Float;
9697:                         var DoF : Integer); external 'dmath';

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9698: { Woolf's test for conformity }
9699: procedure Woolf_Indep(N_lin : Integer;
9700:                           N_col : Integer;
9701:                           Obs : TIntMatrix;
9702:                           var G : Float;
9703:                           var DoF : Integer); external 'dmath';
9704: { Woolf's test for independence }
9705: procedure DimStatClassVector(var C : TStatClassVector;
9706:                                 Ub : Integer); external 'dmath';
9707: { Allocates an array of statistical classes: C[0..Ub] }
9708: procedure Distrib(X : TVector;
9709:                      Lb, Ub : Integer;
9710:                      A, B, H : Float;
9711:                      C : TStatClassVector); external 'dmath';
9712: { Distributes an array X[Lb..Ub] into statistical classes }
9713: { -----
9714:   Linear / polynomial regression
9715: -----
9716: procedure LinFit(X, Y : TVector;
9717:                     Lb, Ub : Integer;
9718:                     B : TVector;
9719:                     V : TMatrix); external 'dmath';
9720: { Linear regression :  $Y = B(0) + B(1) * X$  }
9721: procedure WLinFit(X, Y, S : TVector;
9722:                      Lb, Ub : Integer;
9723:                      B : TVector;
9724:                      V : TMatrix); external 'dmath';
9725: { Weighted linear regression :  $Y = B(0) + B(1) * X$  }
9726: procedure SVDDlinFit(X, Y : TVector;
9727:                        Lb, Ub : Integer;
9728:                        SVDTol : Float;
9729:                        B : TVector;
9730:                        V : TMatrix); external 'dmath';
9731: { Unweighted linear regression by singular value decomposition }
9732: procedure WSVDDlinFit(X, Y, S : TVector;
9733:                          Lb, Ub : Integer;
9734:                          SVDTol : Float;
9735:                          B : TVector;
9736:                          V : TMatrix); external 'dmath';
9737: { Weighted linear regression by singular value decomposition }
9738: procedure MulFit(X : TMatrix;
9739:                     Y : TVector;
9740:                     Lb, Ub, Nvar : Integer;
9741:                     ConsTerm : Boolean;
9742:                     B : TVector;
9743:                     V : TMatrix); external 'dmath';
9744: { Multiple linear regression by Gauss-Jordan method }
9745: procedure WMulFit(X : TMatrix;
9746:                     Y, S : TVector;
9747:                     Lb, Ub, Nvar : Integer;
9748:                     ConsTerm : Boolean;
9749:                     B : TVector;
9750:                     V : TMatrix); external 'dmath';
9751: { Weighted multiple linear regression by Gauss-Jordan method }
9752: procedure SVDFit(X : TMatrix;
9753:                     Y : TVector;
9754:                     Lb, Ub, Nvar : Integer;
9755:                     ConsTerm : Boolean;
9756:                     SVDTol : Float;
9757:                     B : TVector;
9758:                     V : TMatrix); external 'dmath';
9759: { Multiple linear regression by singular value decomposition }
9760: procedure WSVDFit(X : TMatrix;
9761:                      Y, S : TVector;
9762:                      Lb, Ub, Nvar : Integer;
9763:                      ConsTerm : Boolean;
9764:                      SVDTol : Float;
9765:                      B : TVector;
9766:                      V : TMatrix); external 'dmath';
9767: { Weighted multiple linear regression by singular value decomposition }
9768: procedure PolFit(X, Y : TVector;
9769:                     Lb, Ub, Deg : Integer;
9770:                     B : TVector;
9771:                     V : TMatrix); external 'dmath';
9772: { Polynomial regression by Gauss-Jordan method }
9773: procedure WPolFit(X, Y : TVector;
9774:                     Lb, Ub, Deg : Integer;
9775:                     B : TVector;
9776:                     V : TMatrix); external 'dmath';
9777: { Weighted polynomial regression by Gauss-Jordan method }
9778: procedure SVDPolFit(X, Y : TVector;
9779:                       Lb, Ub, Deg : Integer;
9780:                       SVDTol : Float;
9781:                       B : TVector;
9782:                       V : TMatrix); external 'dmath';
9783: { Unweighted polynomial regression by singular value decomposition }
9784: procedure WSVDPolFit(X, Y, S : TVector;
9785:                         Lb, Ub, Deg : Integer;
9786:                         SVDTol : Float;

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

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9876:           V      : TMatrix); external 'dmath';
9877: { Weighted fit of rational fraction }
9878:
9879: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9880: { Returns the value of the rational fraction at point X }
9881: procedure ExpFit(X, Y      : TVector;
9882:                      Lb, Ub, Nexp : Integer;
9883:                      ConsTerm   : Boolean;
9884:                      MaxIter    : Integer;
9885:                      Tol        : Float;
9886:                      B          : TVector;
9887:                      V          : TMatrix); external 'dmath';
9888: { Unweighted fit of sum of exponentials }
9889: procedure WExpFit(X, Y, S      : TVector;
9890:                      Lb, Ub, Nexp : Integer;
9891:                      ConsTerm   : Boolean;
9892:                      MaxIter    : Integer;
9893:                      Tol        : Float;
9894:                      B          : TVector;
9895:                      V          : TMatrix); external 'dmath';
9896: { Weighted fit of sum of exponentials }
9897: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9898: { Returns the value of the regression function at point X }
9899: procedure IncExpFit(X, Y      : TVector;
9900:                      Lb, Ub      : Integer;
9901:                      ConsTerm   : Boolean;
9902:                      MaxIter    : Integer;
9903:                      Tol        : Float;
9904:                      B          : TVector;
9905:                      V          : TMatrix); external 'dmath';
9906: { Unweighted fit of model of increasing exponential }
9907: procedure WIIncExpFit(X, Y, S      : TVector;
9908:                      Lb, Ub      : Integer;
9909:                      ConsTerm   : Boolean;
9910:                      MaxIter    : Integer;
9911:                      Tol        : Float;
9912:                      B          : TVector;
9913:                      V          : TMatrix); external 'dmath';
9914: { Weighted fit of increasing exponential }
9915: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9916: { Returns the value of the regression function at point X }
9917: procedure ExpLinFit(X, Y      : TVector;
9918:                      Lb, Ub      : Integer;
9919:                      MaxIter    : Integer;
9920:                      Tol        : Float;
9921:                      B          : TVector;
9922:                      V          : TMatrix); external 'dmath';
9923: { Unweighted fit of the "exponential + linear" model }
9924: procedure WExpLinFit(X, Y, S      : TVector;
9925:                      Lb, Ub      : Integer;
9926:                      MaxIter    : Integer;
9927:                      Tol        : Float;
9928:                      B          : TVector;
9929:                      V          : TMatrix); external 'dmath';
9930: { Weighted fit of the "exponential + linear" model }
9931:
9932: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9933: { Returns the value of the regression function at point X }
9934: procedure MichFit(X, Y      : TVector;
9935:                      Lb, Ub      : Integer;
9936:                      MaxIter    : Integer;
9937:                      Tol        : Float;
9938:                      B          : TVector;
9939:                      V          : TMatrix); external 'dmath';
9940: { Unweighted fit of Michaelis equation }
9941: procedure WMichFit(X, Y, S      : TVector;
9942:                      Lb, Ub      : Integer;
9943:                      MaxIter    : Integer;
9944:                      Tol        : Float;
9945:                      B          : TVector;
9946:                      V          : TMatrix); external 'dmath';
9947: { Weighted fit of Michaelis equation }
9948: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9949: { Returns the value of the Michaelis equation at point X }
9950: procedure MintFit(X, Y      : TVector;
9951:                      Lb, Ub      : Integer;
9952:                      MintVar    : TMintVar;
9953:                      Fit_S0     : Boolean;
9954:                      MaxIter    : Integer;
9955:                      Tol        : Float;
9956:                      B          : TVector;
9957:                      V          : TMatrix); external 'dmath';
9958: { Unweighted fit of the integrated Michaelis equation }
9959: procedure WMintFit(X, Y, S      : TVector;
9960:                      Lb, Ub      : Integer;
9961:                      MintVar    : TMintVar;
9962:                      Fit_S0     : Boolean;
9963:                      MaxIter    : Integer;
9964:                      Tol        : Float;

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9965:           B      : TVector;
9966:           V      : TMatrix); external 'dmath';
9967: { Weighted fit of the integrated Michaelis equation }
9968: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9969: { Returns the value of the integrated Michaelis equation at point X }
9970: procedure HillFit(X, Y      : TVector;
9971:           Lb, Ub   : Integer;
9972:           MaxIter : Integer;
9973:           Tol    : Float;
9974:           B      : TVector;
9975:           V      : TMatrix); external 'dmath';
9976: { Unweighted fit of Hill equation }
9977: procedure WHillFit(X, Y, S : TVector;
9978:           Lb, Ub   : Integer;
9979:           MaxIter : Integer;
9980:           Tol    : Float;
9981:           B      : TVector;
9982:           V      : TMatrix); external 'dmath';
9983: { Weighted fit of Hill equation }
9984: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9985: { Returns the value of the Hill equation at point X }
9986: procedure LogiFit(X, Y      : TVector;
9987:           Lb, Ub   : Integer;
9988:           ConsTerm : Boolean;
9989:           General  : Boolean;
9990:           MaxIter  : Integer;
9991:           Tol    : Float;
9992:           B      : TVector;
9993:           V      : TMatrix); external 'dmath';
9994: { Unweighted fit of logistic function }
9995: procedure WLogiFit(X, Y, S : TVector;
9996:           Lb, Ub   : Integer;
9997:           ConsTerm : Boolean;
9998:           General  : Boolean;
9999:           MaxIter  : Integer;
10000:          Tol    : Float;
10001:          B      : TVector;
10002:          V      : TMatrix); external 'dmath';
10003: { Weighted fit of logistic function }
10004: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10005: { Returns the value of the logistic function at point X }
10006: procedure PKFit(X, Y      : TVector;
10007:           Lb, Ub   : Integer;
10008:           MaxIter : Integer;
10009:           Tol    : Float;
10010:          B      : TVector;
10011:          V      : TMatrix); external 'dmath';
10012: { Unweighted fit of the acid-base titration curve }
10013: procedure WPKFit(X, Y, S : TVector;
10014:           Lb, Ub   : Integer;
10015:           MaxIter : Integer;
10016:           Tol    : Float;
10017:           B      : TVector;
10018:           V      : TMatrix); external 'dmath';
10019: { Weighted fit of the acid-base titration curve }
10020: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10021: { Returns the value of the acid-base titration function at point X }
10022: procedure PowFit(X, Y      : TVector;
10023:           Lb, Ub   : Integer;
10024:           MaxIter : Integer;
10025:           Tol    : Float;
10026:          B      : TVector;
10027:          V      : TMatrix); external 'dmath';
10028: { Unweighted fit of power function }
10029: procedure WPowFit(X, Y, S : TVector;
10030:           Lb, Ub   : Integer;
10031:           MaxIter : Integer;
10032:           Tol    : Float;
10033:           B      : TVector;
10034:           V      : TMatrix); external 'dmath';
10035: { Weighted fit of power function }
10036:
10037: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10038: { Returns the value of the power function at point X }
10039: procedure GammaFit(X, Y      : TVector;
10040:           Lb, Ub   : Integer;
10041:           MaxIter : Integer;
10042:           Tol    : Float;
10043:           B      : TVector;
10044:           V      : TMatrix); external 'dmath';
10045: { Unweighted fit of gamma distribution function }
10046: procedure WGammaFit(X, Y, S : TVector;
10047:           Lb, Ub   : Integer;
10048:           MaxIter : Integer;
10049:           Tol    : Float;
10050:           B      : TVector;
10051:           V      : TMatrix); external 'dmath';
10052: { Weighted fit of gamma distribution function }
10053: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';

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10054: { Returns the value of the gamma distribution function at point X }
10055: { -----
10056:   Principal component analysis
10057:   -----
10058: procedure VecMean(X          : TMatrix;
10059:                      Lb, Ub, Nvar : Integer;
10060:                      M      : TVector); external 'dmath';
10061: { Computes the mean vector M from matrix X }
10062: procedure VecSD(X          : TMatrix;
10063:                      Lb, Ub, Nvar : Integer;
10064:                      M, S      : TVector); external 'dmath';
10065: { Computes the vector of standard deviations S from matrix X }
10066: procedure MatVarCov(X       : TMatrix;
10067:                        Lb, Ub, Nvar : Integer;
10068:                        M      : TVector;
10069:                        V      : TMatrix); external 'dmath';
10070: { Computes the variance-covariance matrix V from matrix X }
10071: procedure MatCorrel(V     : TMatrix;
10072:                        Nvar : Integer;
10073:                        R      : TMatrix); external 'dmath';
10074: { Computes the correlation matrix R from the var-cov matrix V }
10075: procedure PCA(R        : TMatrix;
10076:                      Nvar : Integer;
10077:                      Lambda : TVector;
10078:                      C, Rc : TMatrix); external 'dmath';
10079: { Performs a principal component analysis of the correlation matrix R }
10080: procedure ScaleVar(X       : TMatrix;
10081:                        Lb, Ub, Nvar : Integer;
10082:                        M, S      : TVector;
10083:                        Z      : TMatrix); external 'dmath';
10084: { Scales a set of variables by subtracting means and dividing by SD's }
10085: procedure PrinFac(Z     : TMatrix;
10086:                        Lb, Ub, Nvar : Integer;
10087:                        C, F      : TMatrix); external 'dmath';
10088: { Computes principal factors }
10089: { -----
10090:   Strings
10091:   -----
10092: function LTrim(S : String) : String; external 'dmath';
10093: { Removes leading blanks }
10094: function RTrim(S : String) : String; external 'dmath';
10095: { Removes trailing blanks }
10096: function Trim(S : String) : String; external 'dmath';
10097: { Removes leading and trailing blanks }
10098: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10099: { Returns a string made of character C repeated N times }
10100: function RFill(S : String; L : Byte) : String; external 'dmath';
10101: { Completes string S with trailing blanks for a total length L }
10102: function LFill(S : String; L : Byte) : String; external 'dmath';
10103: { Completes string S with leading blanks for a total length L }
10104: function CFill(S : String; L : Byte) : String; external 'dmath';
10105: { Centers string S on a total length L }
10106: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10107: { Replaces in string S all the occurrences of C1 by C2 }
10108: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10109: { Extracts a field from a string }
10110: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10111: { Parses a string into its constitutive fields }
10112: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10113: { Sets the numeric format }
10114: function FloatStr(X : Float) : String; external 'dmath';
10115: { Converts a real to a string according to the numeric format }
10116: function IntStr(N : LongInt) : String; external 'dmath';
10117: { Converts an integer to a string }
10118: function CompStr(Z : Complex) : String; external 'dmath';
10119: { Converts a complex number to a string }
10120: {$IFDEF DELPHI}
10121: function StrDec(S : String) : String; external 'dmath';
10122: { Set decimal separator to the symbol defined in SysUtils }
10123: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10124: { Test if a string represents a number and returns it in X }
10125: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10126: { Reads a floating point number from an Edit control }
10127: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10128: { Writes a floating point number in a text file }
10129: {$ENDIF}
10130: { -----
10131:   BGI / Delphi graphics
10132:   -----
10133: function InitGraphics
10134: {$IFDEF DELPHI}
10135: (Width, Height : Integer) : Boolean;
10136: {$ELSE}
10137: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10138: { Enters graphic mode }
10139: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10140:                        X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10141: { Sets the graphic window }
10142: procedure SetOxScale(Scale           : TScale;

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10143:           OxMin, OxMax, OxStep : Float); external 'dmath';
10144: { Sets the scale on the Ox axis }
10145: procedure SetOxScale(Scale : TScale;
10146:                           OyMin, OyMax, OyStep : Float); external 'dmath';
10147: { Sets the scale on the Oy axis }
10148: procedure GetOxScale(var Scale : TScale;
10149:                         var OxMin, OxMax, OxStep : Float); external 'dmath';
10150: { Returns the scale on the Ox axis }
10151: procedure GetOyScale(var Scale : TScale;
10152:                         var OyMin, OyMax, OyStep : Float); external 'dmath';
10153: { Returns the scale on the Oy axis }
10154: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10155: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10156: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10157: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10158: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10159: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10160: {$IFDEF DELPHI}
10161: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10162: { Sets the font for the main graph title }
10163: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10164: { Sets the font for the Ox axis (title and labels) }
10165: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10166: { Sets the font for the Oy axis (title and labels) }
10167: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10168: { Sets the font for the legends }
10169: procedure SetClipping(Clip : Boolean); external 'dmath';
10170: { Determines whether drawings are clipped at the current viewport
10171:   boundaries, according to the value of the Boolean parameter Clip }
10172: {$ENDIF}
10173: procedure PlotOxAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10174: { Plots the horizontal axis }
10175: procedure PlotOyAxis{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10176: { Plots the vertical axis }
10177: procedure PlotGrid{$IFDEF DELPHI}(Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10178: { Plots a grid on the graph }
10179: procedure WriteGraphTitle{$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10180: { Writes the title of the graph }
10181: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10182: { Sets the maximum number of curves and re-initializes their parameters }
10183: procedure SetPointParam
10184: {$IFDEF DELPHI}
10185: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10186: {$ELSE}
10187: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10188: { Sets the point parameters for curve # CurvIndex }
10189: procedure SetLineParam
10190: {$IFDEF DELPHI}
10191: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10192: {$ELSE}
10193: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10194: { Sets the line parameters for curve # CurvIndex }
10195: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10196: { Sets the legend for curve # CurvIndex }
10197: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10198: { Sets the step for curve # CurvIndex }
10199: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10200: procedure GetPointParam
10201: {$IFDEF DELPHI}
10202: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10203: {$ELSE}
10204: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10205: { Returns the point parameters for curve # CurvIndex }
10206: procedure GetLineParam
10207: {$IFDEF DELPHI}
10208: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10209: {$ELSE}
10210: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10211: { Returns the line parameters for curve # CurvIndex }
10212: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10213: { Returns the legend for curve # CurvIndex }
10214: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10215: { Returns the step for curve # CurvIndex }
10216: {$IFDEF DELPHI}
10217: procedure PlotPoint(Canvas : TCanvas;
10218:                         X, Y : Float; CurvIndex : Integer); external 'dmath';
10219: {$ELSE}
10220: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10221: {$ENDIF}
10222: { Plots a point on the screen }
10223: procedure PlotCurve{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10224:                           X, Y : TVector;
10225:                           Lb, Ub, CurvIndex : Integer); external 'dmath';
10226: { Plots a curve }
10227: procedure PlotCurveWithErrorBars{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10228:                           X, Y, S : TVector;
10229:                           Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10230: { Plots a curve with error bars }
10231: procedure PlotFunc{$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
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10232:           Func          : TFunc;
10233:           Xmin, Xmax      : Float;
10234:           {$IFDEF DELPHI}Npt   : Integer;{$ENDIF}
10235:           CurvIndex     : Integer); external 'dmath';
10236: { Plots a function }
10237: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10238:                           NCurv       : Integer;
10239:                           ShowPoints, ShowLines : Boolean); external 'dmath';
10240: { Writes the legends for the plotted curves }
10241: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10242:                      Nx, Ny, Nc    : Integer;
10243:                      X, Y, Z       : TVector;
10244:                      F             : TMatrix); external 'dmath';
10245: { Contour plot }
10246: function Xpixel(X : Float): Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10247: function Ypixel(Y : Float): Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10248: function Xuser(X : Integer):Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10249: function Yuser(Y : Integer):Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10250: {$IFDEF DELPHI}
10251: procedure LeaveGraphics; external 'dmath';
10252: { Quits graphic mode }
10253: {$ENDIF}
10254: { -----
10255:   LaTeX graphics
10256:   ----- }
10257: function TeX_InitGraphics(FileName      : String; PgWidth, PgHeight : Integer;
10258:                             Header        : Boolean) : Boolean; external 'dmath';
10259: { Initializes the LaTeX file }
10260: procedure TeX_SetWindow(Xl, X2, Yl, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10261: { Sets the graphic window }
10262: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10263: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10264: { Sets the scale on the Ox axis }
10265: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10266: { Sets the scale on the Oy axis }
10267: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10268: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10269: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10270: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10271: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10272: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10273: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph
10274: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10275: { Sets the maximum number of curves and re-initializes their parameters }
10276: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10277: { Sets the point parameters for curve # CurvIndex }
10278: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10279:                             Width : Float; Smooth : Boolean); external 'dmath';
10280: { Sets the line parameters for curve # CurvIndex }
10281: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10282: { Sets the legend for curve # CurvIndex }
10283: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10284: { Sets the step for curve # CurvIndex }
10285: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10286: { Plots a curve }
10287: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10288:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10289: { Plots a curve with error bars }
10290: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10291:                          Npt : Integer; CurvIndex : Integer); external 'dmath';
10292: { Plots a function }
10293: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10294: { Writes the legends for the plotted curves }
10295: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10296: { Contour plot }
10297: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10298: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10299:
10300: //*****unit uPSI_SynPdf;
10301: Function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10302: Function _DateToString( ADate : TDateTime ) : TPdfDate
10303: Function _PDFDateToString( const AText : TPdfDate ) : TDateTime
10304: Function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10305: Function PdfRect1( const Box : TPdfBox ) : TPdfRect;
10306: Function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10307: //Function _GetCharCount( Text : PAnsiChar ) : integer
10308: //Procedure L2R( W : PWideChar; L : integer )
10309: Function PdfCoord( MM : single ) : integer
10310: Function CurrentPrinterPageSize : TPDFPaperSize
10311: Function CurrentPrinterRes : TPoint
10312: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 );
10313: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10314: Procedure GDICommentLink( MetaHandle:HDC; const aBookmarkName:RawUTF8; const aRect : TRect )
10315: Const ('Uspl0','String 'uspl0.dll
10316: AddTypes('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10317: fCharShape, fDisplaySubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10318: AddTypes('TScriptState_set', 'set of TScriptState_enum
10319: //*****
```

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10321: procedure SIRегистер_PMrand(CL: TPSPascalCompiler); //ParkMiller
10322: begin
10323:   Procedure PMrandomize( I : word)
10324:   Function PMrandom : longint
10325:   Function Rrand : extended
10326:   Function Irand( N : word) : word
10327:   Function Brand( P : extended) : boolean
10328:   Function Nrand : extended
10329: end;
10330:
10331: procedure SIRегистер_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10332: begin
10333:   Function Endian( x : LongWord) : LongWord
10334:   Function Endian64( x : Int64) : Int64
10335:   Function spRol( x : LongWord; y : Byte) : LongWord
10336:   Function spRor( x : LongWord; y : Byte) : LongWord
10337:   Function Ror64( x : Int64; y : Byte) : Int64
10338: end;
10339:
10340: procedure SIRегистер_MapReader(CL: TPSPascalCompiler);
10341: begin
10342:   Procedure ClearModules
10343:   Procedure ReadMapFile( Fname : string)
10344:   Function AddressInfo( Address : dword) : string
10345: end;
10346:
10347: procedure SIRегистер_LibTar(CL: TPSPascalCompiler);
10348: begin
10349:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwner'
10350:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWrite'
10351:   +'teByOther, tpExecuteByOther )
10352:   TTarPermissions', 'set of TTarPermission
10353:   TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10354:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader';
10355:   TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10356:   TTarModes', 'set of TTarMode
10357:   TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDa'
10358:   +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10359:   +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING;'
10360:   +' ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10361:   +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10362:   SIRегистер_TTarArchive(CL);
10363:   SIRегистер_TTarWriter(CL);
10364:   Function PermissionString( Permissions : TTarPermissions) : STRING
10365:   Function ConvertFilename( Filename : STRING) : STRING
10366:   Function FileTimeGMT( FileName : STRING) : TDateTime;
10367:   Function FileTimeGMT1( SearchRec : TSearchRec) : TDateTime;
10368:   Procedure ClearDirRec( var DirRec : TTarDirRec)
10369: end;
10370:
10371:
10372: //*****unit uPSI_TlHelp32;
10373: procedure SIRегистер_TlHelp32(CL: TPSPascalCompiler);
10374: begin
10375:   Const ('MAX_MODULE_NAME32','LongInt'( 255);
10376:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD) : THandle
10377:   Const ('TH32CS_SNAPHEAPLIST','LongWord( $00000001);
10378:   Const ('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002);
10379:   Const ('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004);
10380:   Const ('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008);
10381:   Const ('TH32CS_INHERIT','LongWord').SetUInt( $80000000);
10382:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10383:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10384:   AddTypeS('THeapList32', 'tagHEAPLIST32
10385:   Const ('HF32_DEFAULT','LongInt'( 1);
10386:   Const ('HF32_SHARED','LongInt'( 2);
10387:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10388:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10389:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAd'
10390:   +'dress : DWORD; dwBlockSize : WORD; dwFlags : WORD; dwLockCount : WORD; '
10391:   +'dwResvd : WORD; th32ProcessID : WORD; th32HeapID : WORD; end
10392:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10393:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10394:   Const ('LF32_FIXED','LongWord').SetUInt( $00000001);
10395:   Const ('LF32_FREE','LongWord').SetUInt( $00000002);
10396:   Const ('LF32_MOVEABLE','LongWord').SetUInt( $00000004);
10397:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD) : BOOL
10398:   Function Heap32Next( var lphe : THeapEntry32) : BOOL
10399:   DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10400:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10401:   +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10402:   +'aPri : Longint; dwFlags : DWORD; end
10403:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32
10404:   AddTypeS('TThreadEntry32', 'tagTHREADENTRY32
10405:   Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32) : BOOL
10406:   Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32) : BOOL
10407: end;
10408: Const ('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042);
10409: Const ('EW_REBOOTSYSTEM','LongWord( $0043);

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10410: Const('EW_EXITANDEXECAPP','LongWord($0044);
10411: Const('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD($80000000));
10412: Const('EWX_LOGOFF','LongInt(0);
10413: Const('EWX_SHUTDOWN','LongInt(1);
10414: Const('EWX_REBOOT','LongInt(2);
10415: Const('EWX_FORCE','LongInt(4);
10416: Const('EWX_POWEROFF','LongInt(8);
10417: Const('EWX_FORCEIFHUNG','LongWord').SetUInt($10);
10418: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint;
10419: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word;
10420: Function GET_MOUSEORKEY_LPARAM( const lParam : LongInt ) : Word;
10421: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word;
10422: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word;
10423: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word;
10424: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word;
10425: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint;
10426: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint;
10427: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word;
10428: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word;
10429: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD;
10430: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD;
10431: Function GetDesktopWindow : HWND;
10432: Function GetParent( hWnd : HWND ) : HWND;
10433: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND;
10434: Function GetTopWindow( hWnd : HWND ) : HWND;
10435: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND;
10436: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND;
10437: //Delphi DFM
10438: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer;
10439: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string ) : integer;
10440: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10441: function GetHighlightersFilter(AHighlighters: TStringList): string;
10442: function GetHighlighterFromFileExt(AHighlighters: TStringList; Extension: string): TSynCustomHighlighter;
10443: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL;
10444: Function OpenIcon( hWnd : HWND ) : BOOL;
10445: Function CloseWindow( hWnd : HWND ) : BOOL;
10446: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL;
10447: Function SetWindowPos(hWnd:HWND;hWndInsertAfter:HWND;X,Y,cx,cy : Integer; uFlags : UInt) : BOOL;
10448: Function IsWindowVisible( hWnd : HWND ) : BOOL;
10449: Function IsIconic( hWnd : HWND ) : BOOL;
10450: Function AnyPopup : BOOL;
10451: Function BringWindowToTop( hWnd : HWND ) : BOOL;
10452: Function IsZoomed( hWnd : HWND ) : BOOL;
10453: Function IsWindow( hWnd : HWND ) : BOOL;
10454: Function IsMenu( hMenu : HMENU ) : BOOL;
10455: Function IsChild( hWndParent, hWnd : HWND ) : BOOL;
10456: Function DestroyWindow( hWnd : HWND ) : BOOL;
10457: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL;
10458: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL;
10459: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL;
10460: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL;
10461: Function IsWindowUnicode( hWnd : HWND ) : BOOL;
10462: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL;
10463: Function IsWindowEnabled( hWnd : HWND ) : BOOL;
10464:
10465: procedure SIRegister_IDECmdLine(CL: TPSPascalCompiler);
10466: begin
10467:   const('ShowSetupDialogOptLong','String' '--setup
10468: PrimaryConfPathOptLong','String' '--primary-config-path=
10469: PrimaryConfPathOptShort','String' '--pcp=
10470: SecondaryConfPathOptLong','String' '--secondary-config-path=
10471: SecondaryConfPathOptShort','String' '--scp=
10472: NoSplashScreenOptLong','String' '--no-splash-screen
10473: NoSplashScreenOptShort','String' '--nsc
10474: StartedByStartLazarusOpt','String' '--started-by-startlazarus
10475: SkipLastProjectOpt','String' '--skip-last-project
10476: DebugLogOpt','String' '--debug-log=
10477: DebugLogOptEnable','String' '--debug-enable=
10478: LanguageOpt','String' '--language=
10479: LazarusDirOpt','String' '--lazarusdir=
10480: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10481: Function GetCommandLineParameters(aCmdLineParams : TStrings; isStartLazarus:Boolean) : string;
10482: Function ExtractPrimaryConfigPath(aCmdLineParams : TStrings) : string;
10483: Function IsHelpRequested : Boolean;
10484: Function IsVersionRequested : boolean;
10485: Function GetLanguageSpecified : string;
10486: Function ParamIsOption(ParamIndex : integer; const Option : string) : boolean;
10487: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10488: Procedure ParseNoGuiCmdLineParams;
10489: Function ExtractCmdLineFilenames : TStrings;
10490: end;
10491:
10492:
10493: procedure SIRegister_LazFileUtils(CL: TPSPascalCompiler);
10494: begin
10495:   Function CompareFilenames( const Filename1, Filename2 : string ) : integer;
10496:   Function CompareFilenamesIgnoreCase( const Filename1, Filename2 : string ) : integer;
10497:   Function CompareFileExt( const Filename, Ext : string; CaseSensitive : boolean ) : integer;
10498:   Function CompareFileExt1( const Filename, Ext : string ) : integer;

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10499: Function CompareFilenameStarts( const Filename1, Filename2 : string ) : integer
10500: Function CompareFilenames(Filename1:PChar;Len1:integer; Filename2:PChar;Len2:integer):integer
10501: Function CompareFilenamesP( Filename1, Filename2 : PChar; IgnoreCase : boolean ) : integer
10502: Function DirPathExists( DirectoryName : string ) : boolean
10503: Function DirectoryIsWritable( const DirectoryName : string ) : boolean
10504: Function ExtractFileNameOnly( const AFilename : string ) : string
10505: Function FilenameIsAbsolute( const TheFilename : string ) : boolean
10506: Function FilenameIsWinAbsolute( const TheFilename : string ) : boolean
10507: Function FilenameIsUnixAbsolute( const TheFilename : string ) : boolean
10508: Function ForceDirectory( DirectoryName : string ) : boolean
10509: Procedure CheckIfFileIsExecutable( const AFilename : string )
10510: Procedure CheckIfFileIsSymbolicLink( const AFilename : string )
10511: Function FileIsText( const AFilename : string ) : boolean
10512: Function FileIsText2( const AFilename : string; out FileReadable : boolean ) : boolean
10513: Function FilenameIsTrimmed( const TheFilename : string ) : boolean
10514: Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer ) : boolean
10515: Function TrimFilename( const AFilename : string ) : string
10516: Function ResolveDots( const AFilename : string ) : string
10517: Procedure ForcePathDelims( var FileName : string )
10518: Function GetForcePathDelims( const FileName : string ) : String
10519: Function CleanAndExpandfilename( const Filename : string ) : string
10520: Function CleanAndExpandDirectory( const Filename : string ) : string
10521: Function TrimAndExpandfilename( const Filename : string; const BaseDir : string ) : string
10522: Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string ) : string
10523: Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String) : Boolean
10524: Function CreateRelativePath( const Filename,BaseDirectory:string; UsePointDirectory:boolean;
AlwaysRequireSharedBaseFolder : Boolean ) : string
10525: Function FileIsInPath( const Filename, Path : string ) : boolean
10526: Function AppendPathDelim( const Path : string ) : string
10527: Function ChompPathDelim( const Path : string ) : string
10528: Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
10529: Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string ) : string
10530: Function MinimizeSearchPath( const SearchPath : string ) : string
10531: Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
(*Function FileExistsUTF8( const FileName : string ) : boolean
10532: Function FileAgeUTF8( const FileName : string ) : Longint
10533: Function DirectoryExistsUTF8( const Directory : string ) : Boolean
10534: Function ExpandFileNameUTF8( const FileName : string; BaseDir : string ) : string
10535: Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10536: Function FindNextUTF8( var Rslt : TSearchRec ) : Longint
10537: Procedure FindCloseUTF8( var F : TSearchrec )
10538: Function FileSetDateUTF8( const FileName : String; Age : Longint ) : Longint
10539: Function FileGetAttrUTF8( const FileName : String ) : Longint
10540: Function FileSetAttrUTF8( const FileName : String; Attr : longint ) : Longint
10541: Function DeleteFileUTF8( const FileName : String ) : Boolean
10542: Function RenameFileUTF8( const OldName, NewName : String ) : Boolean
10543: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean ) : String
10544: Function FileIsReadOnlyUTF8( const FileName : String ) : Boolean
10545: Function GetCurrentDirUTF8 : String
10546: Function SetCurrentDirUTF8( const NewDir : String ) : Boolean
10547: Function CreateDirUTF8( const NewDir : String ) : Boolean
10548: Function RemoveDirUTF8( const Dir : String ) : Boolean
10549: Function ForceDirectoriesUTF8( const Dir : string ) : Boolean
10550: Function FileOpenUTF8( const FileName : string; Mode : Integer ) : THandle
10551: Function FileCreateUTF8( const FileName : string ) : THandle;
10552: Function FileCreateUTF81( const FileName : string; Rights : Cardinal ) : THandle;
10553: Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal ) : THandle;
10554: Function FileSizeUTF8( const FileName : string ) : int64
10555: Function GetFileDescription( const AFilename : string ) : string
10556: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean ) : string
10557: Function GetTempFileNameUTF8( const Dir, Prefix : String ) : String*
10558: Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean ) : string
10559: Function IsUNCPath( const Path : String ) : Boolean
10560: Function ExtractUNCVolume( const Path : String ) : String
10561: Function ExtractFileRoot( FileName : String ) : String
10562: Function GetDarwinSystemFilename( Filename : string ) : string
10563: Procedure SplitCmdLineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean )
10564: Function StrToCmdLineParam( const Param : string ) : string
10565: Function MergeCmdlineParams( ParamList : TStrings ) : string
10566: Procedure InvalidateFileStateCache( const Filename : string )
10567: Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10568: Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
10569: Function ReadFileToString( const Filename : string ) : string
10570: type
10571:   TCopyFileFlag = ( cffOverwriteFile,
10572:                     cffCreateDestDirectory, cffPreserveTime );
10573:   TCopyFileFlags = set of TCopyFileFlag;*)
10574:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10575:   TCopyFileFlags', 'set of TCopyFileFlag
10576:   TCopyFileFlags', 'set of TCopyFileFlag
10577:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags ) : Boolean
10578: end;
10579:
10580: procedure SIRegister_lazMasks(CL: TPSPascalCompiler);
10581: begin
10582:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10583:   SIRegister_TMask(CL);
10584:   SIRegister_TParseStringList(CL);
10585:   SIRegister_TMaskList(CL);

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10586: Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Boolean
10587: Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Bool;
10588: Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10589: Function MatchesWindowsMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Bool;
10590: end;
10591;
10592: procedure SIRегистer_JvShellHook(CL: TPSPPascalCompiler);
10593: begin
10594:   //PShellHookInfo', '^TShellHookInfo // will not work
10595:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10596:   SHELLHOOKINFO', 'TShellHookInfo
10597:   LPSHELLHOOKINFO', 'PShellHookInfo
10598:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10599:   SIRегистer_TJvShellHook(CL);
10600:   Function InitJvShellHooks : Boolean
10601:   Procedure UninitJvShellHooks
10602: end;
10603;
10604: procedure SIRегистer_JvExControls(CL: TPSPPascalCompiler);
10605: begin
10606:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10607:   +', dcHasSel, dcWantTab, dcNative )
10608:   TDlgCodes', 'set of TDlgCode
10609:   'dcWantMessage',' dcWantAllKeys);
10610:   SIRегистer_IJvExControl(CL);
10611:   SIRегистer_IJvDenySubClassing(CL);
10612:   SIRегистer_TStructPtrMessage(CL);
10613:   Procedure SetDotNetBarColors( FocusedColor, UnfocusedColor : TColor)
10614:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10615:   Procedure DrawDotNetBar( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10616:   Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10617:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10618:   Function CreateWMMessagel( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10619:   Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10620:   Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10621:   Function GetFocusedControl( AControl : TControl ) : TWinControl
10622:   Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10623:   Function DlgCodesToDlcg( Value : TDlgCodes ) : Longint
10624:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10625:   Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10626:   SIRегистer_TJvExControl(CL);
10627:   SIRегистer_TJvExWinControl(CL);
10628:   SIRегистer_TJvExCustomControl(CL);
10629:   SIRегистer_TJvExGraphicControl(CL);
10630:   SIRегистer_TJvExHintWindow(CL);
10631:   SIRегистer_TJvExPubGraphicControl(CL);
10632: end;
10633;
10634: (*-----*)
10635: procedure SIRегистer_EncDecd(CL: TPSPPascalCompiler);
10636: begin
10637:   Procedure EncodeStream( Input, Output : TStream)
10638:   Procedure DecodeStream( Input, Output : TStream)
10639:   Function EncodeString1( const Input : string ) : string
10640:   Function DecodeString1( const Input : string ) : string
10641: end;
10642;
10643: (*-----*)
10644: procedure SIRегистer_SockAppReg(CL: TPSPPascalCompiler);
10645: begin
10646:   SIRегистer_TWebAppRegInfo(CL);
10647:   SIRегистer_TWebAppRegList(CL);
10648:   Procedure GetRegisteredWebApps( Alist : TWebAppRegList)
10649:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10650:   Procedure UnregisterWebApp( const AProgID : string)
10651:   Function FindRegisteredWebApp( const AProgID : string ) : string
10652:   Function CreateRegistry( InitializeNewFile : Boolean ) : TCustomIniFile
10653:   'sUDPPort','String 'UDPPort
10654: end;
10655;
10656: procedure SIRегистer_PJEnvVars(CL: TPSPPascalCompiler);
10657: begin
10658:   // TStringDynArray', 'array of string
10659:   Function GetEnvVarValue( const VarName : string ) : string
10660:   Function SetEnvVarValue( const VarName, VarValue : string ) : Integer
10661:   Function DeleteEnvVar( const VarName : string ) : Integer
10662:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int):Int;
10663:   Function ExpandEnvVars( const Str : string ) : string
10664:   Function GetAllEnvVars( const Vars : TStrings ) : Integer
10665:   Procedure GetAllEnvVarNames( const Names : TStrings );
10666:   Function GetAllEnvVarNames1 : TStringDynArray;
10667:   Function EnvBlockSize : Integer
10668:   TPJEnvVarsEnum', 'Procedure ( const VarName : string; Data : TObject)
10669:   SIRегистer_TPJEnvVarsEnumerator(CL);
10670:   SIRегистer_TPJEnvVars(CL);
10671:   FindClass('TOBJECT'), 'EPJEnvVars
10672:   FindClass('TOBJECT'), 'EPJEnvVars
10673:   //Procedure Register

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10674: end;
10675:
10676: (*-----*)
10677: procedure SIRегистр_PJConsoleApp(CL: TPPascalCompiler);
10678: begin
10679:   'cOneSecInMS', 'LongInt'( 1000);
10680:   //'cDefTimeSlice', 'LongInt'( 50);
10681:   //'cDefMaxExecTime', 'cOneMinInMS';
10682:   'cAppErrorMask', 'LongInt'( 1 shl 29);
10683:   Function IsApplicationError( const ErrCode : LongWord ) : Boolean
10684:     TPJConsoleAppPriority', '( cpDefault, cpHigh, cpNormal, cpIdle, cpRealTime )
10685:     TPJConsoleColors', 'record Foreground : TPJConsoleColor; Background:TPJConsoleColor; end;
10686:   Function MakeConsoleColors( const AForeground, ABackground : TPJConsoleColor):TPJConsoleColors;
10687:   Function MakeConsoleColors1( const AForeground, ABackground : TColor ) : TPJConsoleColors;
10688:   Function MakeConsoleColors2( const AForeground, ABackground : TAlphaColor ) : TPJConsoleColors;
10689:   Function Makesize( const ACX, ACY : LongInt ) : TSize
10690:   SIRегистр_TPJCustomConsoleApp(CL);
10691:   SIRегистр_TPJConsoleApp(CL);
10692: end;
10693:
10694: procedure SIRегистр_ip_misc(CL: TPPascalCompiler);
10695: begin
10696:   INVALID_IP_ADDRESS', 'LongWord').SetUInt( $ffffffff );
10697:   t_encoding', '( uuencode, base64, mime )
10698:   Function internet_date( date : TDateTime ) : string
10699:   Function lookup_hostname( const hostname : string ) : longint
10700:   Function my_hostname : string
10701:   Function my_ip_address : longint
10702:   Function ip2string( ip_address : longint ) : string
10703:   Function resolve_hostname( ip : longint ) : string
10704:   Function address_from( const s : string; count : integer ) : string
10705:   Function encode_base64( data : TStream ) : TStringList
10706:   Function decode_base64( source : TStringList ) : TMemoryStream
10707:   Function posn( const s, t : string; count : integer ) : integer
10708:   Function poscn( c : char; const s : string; n : integer ) : integer
10709:   Function filename_of( const s : string ) : string
10710:   //Function trim( const s : string ) : string
10711:   //Procedure setlength( var s : string; l : byte)
10712:   Function TimeZoneBias : longint
10713:   Function eight2seven_quoteprint( const s : string ) : string
10714:   Function eight2seven_german( const s : string ) : string
10715:   Function seven2eight_quoteprint( const s : string ) : string end;
10716:   type in_addr', 'record s_bytes : array[1..4] of byte; end;
10717:   Function socketerror : cint
10718:   Function fpsocket( domain : cint; xtype : cint; protocol : cint ) : cint
10719:   Function frecv( s : cint; buf : __pointer; len : size_t; flags : cint ) : ssize_t
10720:   Function fpsend( s : cint; msg : __pointer; len : size_t; flags : cint ) : ssize_t
10721:   //Function fpbind( s : cint; addrx : psockaddr; addrlen : tsocklen ) : cint
10722:   Function fplisten( s : cint; backlog : cint ) : cint
10723:   //Function fpaccept( s : cint; addrx : psockaddr; addrlen : plongint ) : cint
10724:   //Function fpconnect( s : cint; name : psockaddr; namelen : tsocklen ) : cint
10725:   //Function fpgetsockname( s : cint; name : psockaddr; namelen : psocklen ) : cint
10726:   Function NetAddrToStr( Entry : in_addr ) : String
10727:   Function HostAddrToStr( Entry : in_addr ) : String
10728:   Function StrToHostAddr( IP : String ) : in_addr
10729:   Function StrToNetAddr( IP : String ) : in_addr
10730:   SOL_SOCKET', 'LongWord').SetUInt( $ffff );
10731:   cint8', 'shortint
10732:   cuint8', 'byte
10733:   cchar', 'cint8
10734:   cschar', 'cint8
10735:   uchar', 'cuint8
10736:   cint16', 'smallint
10737:   cuint16', 'word
10738:   cshort', 'cint16
10739:   cshort', 'cint16
10740:   cushort', 'cuint16
10741:   cint32', 'longint
10742:   cuint32', 'longword
10743:   cint', 'cint32
10744:   csint', 'cint32
10745:   cuint', 'cuint32
10746:   csigned', 'cint
10747:   cunsigned', 'cuint
10748:   cint64', 'int64
10749:   clonglong', 'cint64
10750:   cslonglong', 'cint64
10751:   cbool', 'longbool
10752:   cfloat', 'single
10753:   cdouble', 'double
10754:   clongdouble', 'extended
10755:
10756: procedure SIRегистр_uLkJSON(CL: TPPascalCompiler);
10757: begin
10758:   TlkJSONTypes', '( jsBase, jsNumber, jsString, jsBoolean, jsNull, jsList, jsObject )
10759:   SIRегистр_TlkJSONdotnetclass(CL);
10760:   SIRегистр_TlkJSONbase(CL);
10761:   SIRегистр_TlkJSONnumber(CL);
10762:   SIRегистр_TlkJSONstring(CL);

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10763: SIRegister_TlkJSONboolean(CL);
10764: SIRegister_TlkJSONnull(CL);
10765: TlkJSONFuncEnum', 'Procedure ( ElName : string; Ele : TlkJSONba'
10766: +'se; data : TObject; var Continue : Boolean)
10767: SIRegister_TlkJSONcustomlist(CL);
10768: SIRegister_TlkJSONList(CL);
10769: SIRegister_TlkJSONobjectmethod(CL);
10770: TlkHashItem', 'record hash : cardinal; index : Integer; end
10771: TlkHashFunction', 'Function ( const ws : WideString ) : cardinal
10772: SIRegister_TlkHashTable(CL);
10773: SIRegister_TlkBalTree(CL);
10774: SIRegister_TlkJSONobject(CL);
10775: SIRegister_TlkJSON(CL);
10776: SIRegister_TlkJSONstreamed(CL);
10777: Function GenerateReadableText( vObj : TlkJSONbase; var vLevel : Integer): string
10778: end;
10779:
10780: procedure SIRegister_ZSysUtils(CL: TPPascalCompiler);
10781: begin
10782:   TZListSortCompare', 'Function (Item1, Item2 : TObject): Integer
10783:   SIRegister_TZSortedlist(CL);
10784:   Function zFirstDelimiter( const Delimiters, Str : string) : Integer
10785:   Function zLastDelimiter( const Delimiters, Str : string) : Integer
10786:   //Function MemLCompUnicode( P1, P2 : PWideChar; Len : Integer) : Boolean
10787:   //Function MemLCompAansi( P1, P2 : PAnsiChar; Len : Integer) : Boolean
10788:   Function zStartsWith( const Str, SubStr : WideString) : Boolean;
10789:   Function StartsWith1( const Str, SubStr : RawByteString) : Boolean;
10790:   Function EndsWith1( const Str, SubStr : WideString) : Boolean;
10791:   Function EndsWith1( const Str, SubStr : RawByteString) : Boolean;
10792:   Function SQLStrToFloatDef( Str : RawByteString; Def : Extended) : Extended;
10793:   Function SQLStrToFloatDef1( Str : string; Def : Extended) : Extended;
10794:   Function SQLStrToFloat( const Str : AnsiString) : Extended
10795:   //Function BufferToStr( Buffer : PWideChar; Length : LongInt) : string;
10796:   //Function BufferToStr1( Buffer : PAnsiChar; Length : LongInt) : string;
10797:   Function BufferToBytes( Buffer : TObject; Length : LongInt) : TByteDynArray
10798:   Function StrToBoolEx( Str : string) : Boolean
10799:   Function BoolToStrEx( Bool : Boolean) : String
10800:   Function IsIpAddr( const Str : string) : Boolean
10801:   Function zSplitString( const Str, Delimiters : string) : TStrings
10802:   Procedure PutSplitString( List : TStrings; const Str, Delimiters : string)
10803:   Procedure AppendSplitString( List : TStrings; const Str, Delimiters : string)
10804:   Function ComposeString( List : TStrings; const Delimiter : string) : string
10805:   Function FloatToSQLStr( Value : Extended) : string
10806:   Procedure PutSplitStringEx( List : TStrings; const Str, Delimiter : string)
10807:   Function SplitStringEx( const Str, Delimiter : string) : TStrings
10808:   Procedure AppendSplitStringEx( List : TStrings; const Str, Delimiter : string)
10809:   Function zBytesToStr( const Value : TByteDynArray) : AnsiString
10810:   Function zStrToBytes( const Value : AnsiString) : TByteDynArray;
10811:   Function StrToBytes1( const Value : UTF8String) : TByteDynArray;
10812:   Function StrToBytes2( const Value : RawByteString) : TByteDynArray;
10813:   Function StrToBytes3( const Value : WideString) : TByteDynArray;
10814:   Function StrToBytes4( const Value : UnicodeString) : TByteDynArray;
10815:   Function BytesToVar( const Value : TByteDynArray) : Variant
10816:   Function VarToBytes( const Value : Variant) : TByteDynArray
10817:   Function AnsiSQLDateToDateTime( const Value : string) : TDateTime
10818:   Function TimestampStrToDateTime( const Value : string) : TDateTime
10819:   Function DateTimeToAnsiSQLDate( Value : TDateTime; WithMMSec : Boolean) : string
10820:   Function EncodeCString( const Value : string) : string
10821:   Function DecodeCString( const Value : string) : string
10822:   Function zReplaceChar( const Source, Target : Char; const Str : string) : string
10823:   Function MemPas( Buffer : PChar; Length : LongInt) : string
10824:   Procedure DecodeSQLVersioning(const FullVersion:Int;out MajorVersion:Int;out MinorVersion:Int;out
SubVersion:Int);
10825:   Function EncodeSQLVersioning(const MajorVersion:Integer;const MinorVersion:Integer;const
SubVersion:Integer):Int;
10826:   Function FormatSQLVersion( const SQLVersion : Integer) : String
10827:   Function ZStrToFloat( Value : AnsiChar) : Extended;
10828:   Function ZStrToFloat1( Value : AnsiString) : Extended;
10829:   Procedure ZSetString( const Src : AnsiChar; var Dest : AnsiString);
10830:   Procedure ZSetString1( const Src : AnsiChar; const Len : Cardinal; var Dest : AnsiString);
10831:   Procedure ZSetString2( const Src : AnsiChar; var Dest : UTF8String);
10832:   Procedure ZSetString3( const Src : AnsiChar; const Len : Cardinal; var Dest : UTF8String);
10833:   Procedure ZSetString4( const Src : AnsiChar; const Len : Cardinal; var Dest : WideString);
10834:   Procedure ZSetString5( const Src : AnsiChar; var Dest : RawByteString);
10835:   Procedure ZSetString6( const Src : AnsiChar; const Len : Cardinal; var Dest : RawByteString);
10836: end;
10837:
10838: unit UPSI_ZEncoding;
10839:   Function StringToAnsiEx( const s : String; const FromCP, ToCP : Word) : RawByteString
10840:   Function AnsiToStringEx( const s : RawByteString; const FromCP, ToCP : Word) : String
10841:   Function ZRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10842:   Function ZUnicodeToRaw( const US : WideString; CP : Word) : RawByteString
10843:   Function ZConvertAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10844:   Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10845:   Function ZConvertAnsiToUTF8( const Src : AnsiString) : UTF8String
10846:   Function ZConvertUTF8ToAnsi( const Src : UTF8String) : AnsiString
10847:   Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10848:   Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10849:   Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String

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10850: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word ) : RawByteString;
10851: Function ZConvertStringToRawWithAutoEncode( const Src: String; const StringCP, RawCP:Word ):RawByteString;
10852: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word ) : String;
10853: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word ) : UTF8String;
10854: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP: Word): UTF8String;
10855: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word ) : AnsiString;
10856: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP: Word): AnsiString;
10857: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word) : String;
10858: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word) : String;
10859: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word) : String;
10860: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word) : WideString;
10861: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word) : WideString;
10862: Function ZConvertStringToUnicodeWithAutoEncode( const Src: String; const StringCP:Word):WideString;
10863: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString;
10864: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString;
10865: Function ZMoveAnsiToUTF8( const Src : AnsiString) : UTF8String;
10866: Function ZMoveUTF8ToAnsi( const Src : UTF8String ) : AnsiString;
10867: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String;
10868: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString;
10869: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word) : AnsiString;
10870: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word) : String;
10871: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String;
10872: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString;
10873: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word) : String;
10874: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word) : UTF8String;
10875: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word) : WideString;
10876: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word) : WideString;
10877: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word) : RawByteString;
10878: Function ZDefaultSystemCodePage : Word;
10879: Function ZCompatibleCodePages( const CP1, CP2 : Word) : Boolean;
10880:
10881:
10882: procedure SIRegister_BoldComUtils(CL: TPSpascalCompiler);
10883: begin
10884:   ('RPC_C_AUTHN_LEVEL_DEFAULT','LongInt'( 0 );
10885:   ('RPC_C_AUTHN_LEVEL_NONE','LongInt'( 1 );
10886:   ('RPC_C_AUTHN_LEVEL_CONNECT','LongInt'( 2 );
10887:   ('RPC_C_AUTHN_LEVEL_CALL','LongInt'( 3 );
10888:   ('RPC_C_AUTHN_LEVEL_PKT','LongInt'( 4 );
10889:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY','LongInt'( 5 );
10890:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY','LongInt'( 6 );
10891:   {'alDefault','1 RPC_C_AUTHN_LEVEL_DEFAULT';
10892:   ('alNone','2 RPC_C_AUTHN_LEVEL_NONE';
10893:   ('alConnect','3 RPC_C_AUTHN_LEVEL_CONNECT';
10894:   ('alCall','4 RPC_C_AUTHN_LEVEL_CALL;
10895:   ('alPacket','5 RPC_C_AUTHN_LEVEL_PKT;
10896:   ('alPacketIntegrity','6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY;
10897:   ('alPacketPrivacy','7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY);
10898:   ('RPC_C_IMP_LEVEL_DEFAULT','LongInt'( 0 );
10899:   ('RPC_C_IMP_LEVEL_ANONYMOUS','LongInt'( 1 );
10900:   ('RPC_C_IMP_LEVEL_IDENTIFY','LongInt'( 2 );
10901:   ('RPC_C_IMP_LEVEL_IMPERSONATE','LongInt'( 3 );
10902:   ('RPC_C_IMP_LEVEL_DELEGATE','LongInt'( 4 );
10903:   {'ilDefault','0 RPC_C_IMP_LEVEL_DEFAULT';
10904:   ('ilAnonymous','1 RPC_C_IMP_LEVEL_ANONYMOUS';
10905:   ('ilIdentiry','2 RPC_C_IMP_LEVEL_IDENTIFY;
10906:   ('ilImpersonate','3 RPC_C_IMP_LEVEL_IMPERSONATE;
10907:   ('ilDelegate','4 RPC_C_IMP_LEVEL_DELEGATE);
10908:   ('EOAC_NONE','LongWord').SetUInt( $0 );
10909:   ('EOAC_DEFAULT','LongWord').SetUInt( $800 );
10910:   ('EOAC_MUTUAL_AUTH','LongWord').SetUInt( $1 );
10911:   ('EOAC_STATIC_CLOACKING','LongWord').SetUInt( $20 );
10912:   ('EOAC_DYNAMIC_CLOACKING','LongWord').SetUInt( $40 );
10913:   ('EOAC_ANY_AUTHORITY','LongWord').SetUInt( $80 );
10914:   ('RPC_C_AUTHN_WINNT','LongInt'( 10 );
10915:   ('RPC_C_AUTHNZ_NONE','LongInt'( 0 );
10916:   ('RPC_C_AUTHNZ_NAME','LongInt'( 1 );
10917:   ('RPC_C_AUTHNZ_DCE','LongInt'( 2 );
10918:   FindClass('TOBJECT'),'EBoldCom
10919: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer ) : Boolean;
10920: Function BoldMemoryToVariant( const Buffer, BufSize : Integer ) : OleVariant;
10921: Function BoldStreamToVariant( Stream : TStream ) : OleVariant;
10922: Function BoldStringsToVariant( Strings : TStrings ) : OleVariant;
10923: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer ) : Integer;
10924: Function BoldVariantToStream( V : OleVariant; Stream : TStream ) : Integer;
10925: Function BoldVariantArrayOfArraysOfStringToStrings( V : OleVariant; Strings : TStrings ) : Integer;
10926: Function BoldVariantIsNamedValues( V : OleVariant ) : Boolean;
10927: Function BoldCreateNamedValues(const Names:array of string;const Values:array of OleVariant):OleVariant;
10928: Function BoldGetNamedValue( Data : OleVariant; const Name : string) : OleVariant;
10929: Procedure BoldSetValue( Data : OleVariant; const Name : string; Value : OleVariant );
10930: Function BoldCreateGUID : TGUID;
10931: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult ) : Boolean;
10932: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out Res:HRES):Bool;
10933: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint );
10934: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown );
10935: end;
10936:
10937: (*-----*)

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10938: procedure SIRegister_BoldIsoDateTime(CL: TPSPPascalCompiler);
10939: begin
10940:   Function ParseISODate( s : string ) : TDateTime
10941:   Function ParseISODateTime( s : string ) : TDateTime
10942:   Function ParseISOTime( str : string ) : TDateTime
10943: end;
10944:
10945: (*-----*)
10946: procedure SIRegister_BoldGUIDUtils(CL: TPSPPascalCompiler);
10947: begin
10948:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
10949:   Function BoldCreateGUIDWithBracketsAsString : string
10950: end;
10951:
10952: procedure SIRegister_BoldFileHandler(CL: TPSPPascalCompiler);
10953: begin
10954:   FindClass('TOBJECT','TBoldFileHandler'
10955:   FindClass('TOBJECT','TBoldDiskFileHandler'
10956:   //TBoldFileHandlerClass', 'class of TBoldFileHandler
10957:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
10958:   SIRegister_TBoldfileHandler(CL);
10959:   SIRegister_TBoldDiskFileHandler(CL);
10960:   Procedure BoldCloseAllFileHandlers
10961:   Procedure BoldRemoveUnchangedFilesFromEditor
10962:   Function BoldFileHandlerList : TBoldObjectArray
10963:   Function BoldFileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
10964:   OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
10965: end;
10965:
10966: procedure SIRegister_BoldWinINet(CL: TPSPPascalCompiler);
10967: begin
10968:   PCharArr', 'array of PChar
10969:   Function BoldInternetOpen(Agent:String;
10970:   AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
10971:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags:cardinal):Pointer
10972:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
10973:   NumberOfBytesRead:Card):LongBool;
10974:   Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
10975:   Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
10976:   Cardinal; Reserved : Cardinal ) : LongBool
10977:   Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
10978:   : PCharArr; Flags, Context : Cardinal ) : Pointer
10979:   Function BoldHttpSendRequest(hRequest:Ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
10980:   Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
10981:   Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
10982:   Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
10983:   Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
10984:   Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
10985: end;
10985:
10986: procedure SIRegister_BoldQueryUserDlg(CL: TPSPPascalCompiler);
10987: begin
10988:   SIRegister_TfrmBoldQueryUser(CL);
10989:   Function QueryUser( const Title, Query : string ) : TBoldQueryResult
10990: (*-----*)
10991: procedure SIRegister_BoldQueue(CL: TPSPPascalCompiler);
10992: begin
10993:   //('befIsInDisplayList',' BoldElementFlag0 );
10994:   //('befStronglyDependedOfPrioritized',' BoldElementFlag1 );
10995:   //('befFollowerSelected',' BoldElementFlag2 );
10996:   FindClass('TOBJECT','TBoldQueue
10997:   FindClass('TOBJECT','TBoldQueueable
10998:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
10999:   SIRegister_TBoldQueueable(CL);
11000:   SIRegister_TBoldQueue(CL);
11001:   Function BoldQueueFinalized : Boolean
11002:   Function BoldinstalledQueue : TBoldQueue
11003: end;
11004:
11005: procedure SIRegister_Barcode(CL: TPSPPascalCompiler);
11006: begin
11007:   const mmPerInch,'Extended').setExtended( 25.4 );
11008:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
11009:   + bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
11010:   +'Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
11011:   +'bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
11012:   +'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
11013:   TBarLineType', '( white, black, black_half )
11014:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )
11015:   TShowTextPosition', '( stpTopLeft, stpTopRight, stpTopCenter, st'
11016:   +'pBottomLeft, stpBottomRight, stpBottomCenter )
11017:   TCheckSumMethod', '( csmNone, csmModulo10 )
11018:   SIRegister_TAsBarcode(CL);
11019:   Function CheckSumModulo10( const data : string ) : string

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11020: Function ConvertMmToPixelsX( const Value : Double ) : Integer
11021: Function ConvertMmToPixelsY( const Value : Double ) : Integer
11022: Function ConvertInchToPixelsX( const Value : Double ) : Integer
11023: Function ConvertInchToPixelsY( const Value : Double ) : Integer
11024: end;
11025:
11026: procedure SIRegister_Geometry(CL: TPSPascalCompiler); //OpenGL
11027: begin
11028:   THomogeneousByteVector', 'array[0..3] of Byte
11029:   THomogeneousWordVector', 'array[0..3] of Word
11030:   THomogeneousIntVector', 'array[0..3] of Integer
11031:   THomogeneousFltVector', 'array[0..3] of single
11032:   THomogeneousDblVector', 'array[0..3] of double
11033:   THomogeneousExtVector', 'array[0..3] of extended
11034:   TAffineByteVector', 'array[0..2] of Byte
11035:   TAffineWordVector', 'array[0..2] of Word
11036:   TAffineIntVector', 'array[0..2] of Integer
11037:   TAffineFltVector', 'array[0..2] of single
11038:   TAffineDblVector', 'array[0..2] of double
11039:   TAffineExtVector', 'array[0..2] of extended
11040:   THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11041:   THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11042:   THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11043:   THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11044:   THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11045:   THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11046:   TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11047:   TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11048:   TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11049:   TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11050:   TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11051:   TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11052: TMatrix4b', 'THomogeneousByteMatrix
11053: TMatrix4w', 'THomogeneousWordMatrix
11054: TMatrix4i', 'THomogeneousIntMatrix
11055: TMatrix4f', 'THomogeneousFltMatrix
11056: TMatrix4d', 'THomogeneousDblMatrix
11057: TMatrix4e', 'THomogeneousExtMatrix
11058: TMatrix3b', 'TAffineByteMatrix
11059: TMatrix3w', 'TAffineWordMatrix
11060: TMatrix3i', 'TAffineIntMatrix
11061: TMatrix3f', 'TAffineFltMatrix
11062: TMatrix3d', 'TAffineDblMatrix
11063: TMatrix3e', 'TAffineExtMatrix
11064: //^PMatrix', '^TMatrix // will not work
11065: TMatrixGL', 'THomogeneousFltMatrix
11066: THomogeneousMatrix', 'THomogeneousFltMatrix
11067: TAffineMatrix', 'TAffineFltMatrix
11068: TQuaternion', 'record Vector : TVector4f; end
11069: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11070: +'ger; Height : Integer; end
11071: TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11072: +'XZ, ttShearYZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11073: +' , ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11074: 'EPSILON', 'Extended').setExtended( 1E-100 );
11075: 'EPSILON2', 'Extended').setExtended( 1E-50 );
11076: Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11077: Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11078: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11079: Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11080: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single ) : TAffineVector
11081: Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11082: Function VectorAngle( V1, V2 : TAffineVector ) : Single
11083: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11084: Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11085: Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11086: Function VectorLength( V : array of Single ) : Single
11087: Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11088: Procedure VectorNegate( V : array of Single )
11089: Function VectorNorm( V : array of Single ) : Single
11090: Function VectorNormalize( V : array of Single ) : Single
11091: Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11092: Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11093: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single )
11094: Procedure VectorScale( V : array of Single; Factor : Single )
11095: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11096: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11097: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11098: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11099: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11100: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11101: Procedure MatrixAdjoint( var M : TMatrixGL )
11102: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11103: Procedure MatrixAffineTranspose( var M : TAffineMatrix )
11104: Function MatrixDeterminant( M : TMatrixGL ) : Single
11105: Procedure MatrixInvert( var M : TMatrixGL )
11106: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11107: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11108: Procedure MatrixTranspose( var M : TMatrixGL )

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11109: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11110: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion
11111: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11112: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11113: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11114: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
11115: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11116: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11117: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11118: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11119: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11120: Function VectorTransformI( V : TVector3f; M : TMatrixGL ) : TVector3f;
11121: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11122: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11123: Function MakeAffineVector( V : array of Single ) : TAffineVector
11124: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11125: Function MakeVector( V : array of Single ) : TVectorGL
11126: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11127: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11128: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11129: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11130: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11131: Function ArcCosGL( X : Extended ) : Extended
11132: Function ArcSinGL( X : Extended ) : Extended
11133: Function ArcTan2GL( Y, X : Extended ) : Extended
11134: Function CoTanGL( X : Extended ) : Extended
11135: Function DegToRadGL( Degrees : Extended ) : Extended
11136: Function RadToDegGL( Radians : Extended ) : Extended
11137: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11138: Function TanGL( X : Extended ) : Extended
11139: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11140: Function TurnI( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11141: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11142: Function PitchI( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11143: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11144: Function RollI( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11145: end;
11146:
11147:
11148: procedure SIRegister_JclRegistry(CL: TPSPascalCompiler);
11149: begin
11150: Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11151: Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11152: Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11153: Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11154: Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11155: Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11156: Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11157: Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11158: Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11159: Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11160: Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11161: Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11162: Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11163: Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11164: Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11165: Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11166: Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11167: Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11168: Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11169: AddTypeS('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser
11170: +'RunOnce, ekServiceRun, ekServiceRunOnce )'
11171: AddClassN(FindClass('TOBJECT'),'EJclRegistryError'
11172: Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11173: Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11174: Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
Items:TStrings):Bool;
11175: Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
SaveTo:TStrings):Bool;
11176: Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11177: end;
11178:
11179: procedure SIRegister_JclCOM(CL: TPSPascalCompiler);
11180: begin
11181: CLSID_StdComponentCategoriesMgr', 'TGUID '{0002E005-0000-0000-C000-000000000046}
11182: CATID_SafeForInitializing', 'TGUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11183: CATID_SafeForScripting', 'TGUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11184: icMAX_CATEGORY_DESC_LEN','LongInt'( 128 );
11185: FindClass('TOBJECT'), EInvalidParam
11186: Function IsDCOMInstalled : Boolean
11187: Function IsDCOMEnabled : Boolean
11188: Function GetDCOMVersion : string
11189: Function GetMDACVersion : string
11190: Function GetMDACVersion2 : string
11191: Function MarshalInterThreadInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;
11192: Function MarshalInterProcessInterfaceInStream(const iid:TIID;unk:IUnknown;var stm:IStream):HResult;
11193: Function MarshalInterProcessInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HResult;

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11194: Function MarshalInterMachineInterfaceInStream( const iid:TIID;unk:IUnknown;var stm:IStream):HRESULT;
11195: Function MarshalInterMachineInterfaceInVarArray(const iid:TIID;unk:IUnknown;var
VarArray:OleVariant):HRESULT;
11196: Function CreateComponentCategory( const CatID : TGUID; const sDescription : string ) : HRESULT
11197: Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HRESULT
11198: Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID ) : HRESULT
11199: Function ResetIStreamToStart( Stream : IStream ) : Boolean
11200: Function SizeOfIStreamContents( Stream : IStream ) : Largeint
11201: Function StreamToVariantArray( Stream : TStream ) : OleVariant;
11202: Function StreamToVariantArray1( Stream : IStream ) : OleVariant;
11203: Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream );
11204: Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream );
11205: end;
11206:
11207:
11208: procedure SIRegister_JclUnitConv_mX2(CL: TPSPascalCompiler);
11209: begin
11210:   Const ('CelsiusFreezingPoint','Extended').setExtended( 0.0 );
11211:   FahrenheitFreezingPoint,'Extended').setExtended( 32.0 );
11212:   KelvinFreezingPoint,'Extended').setExtended( 273.15 );
11213:   CelsiusAbsoluteZero','Extended').setExtended( - 273.15 );
11214:   FahrenheitAbsoluteZero','Extended').setExtended( - 459.67 );
11215:   KelvinAbsoluteZero','Extended').setExtended( 0.0 );
11216:   DegPerCycle','Extended').setExtended( 360.0 );
11217:   DegPerGrad','Extended').setExtended( 0.9 );
11218:   DegPerRad','Extended').setExtended( 57.295779513082320876798154814105 );
11219:   GradPerCycle ','Extended').setExtended( 400.0 );
11220:   GradPerDeg ','Extended').setExtended( 1.11111111111111111111111111111111 );
11221:   GradPerRad ','Extended').setExtended( 63.661977236758134307553505349006 );
11222:   RadPerCycle ','Extended').setExtended( 6.283185307179586476925286766559 );
11223:   RadPerDeg ','Extended').setExtended( 0.017453292519943295769236907684886 );
11224:   RadPerGrad ','Extended').setExtended( 0.015707963267948966192313216916398 );
11225:   CyclePerDeg ','Extended').setExtended( 0.0027777777777777777777777777777777 );
11226:   CyclePerGrad ','Extended').setExtended( 0.0025 );
11227:   CyclePerRad ','Extended').setExtended( 0.15915494309189533576888376337251 );
11228:   ArcMinutesPerDeg ','Extended').setExtended( 60.0 );
11229:   ArcSecondsPerArcMinute ','Extended').setExtended( 60.0 );
11230:   Function HowAOneLinerCanBiteYou( const Step, Max : Longint ) : Longint
11231:   Function MakePercentage( const Step, Max : Longint ) : Longint
11232:   Function CelsiusToKelvin( const T : double ) : double
11233:   Function CelsiusToFahrenheit( const T : double ) : double
11234:   Function KelvinToCelsius( const T : double ) : double
11235:   Function KelvinToFahrenheit( const T : double ) : double
11236:   Function FahrenheitToCelsius( const T : double ) : double
11237:   Function FahrenheitToKelvin( const T : double ) : double
11238:   Function CycleToDeg( const Cycles : double ) : double
11239:   Function CycleToGrad( const Cycles : double ) : double
11240:   Function CycleToRad( const Cycles : double ) : double
11241:   Function DegToCycle( const Degrees : double ) : double
11242:   Function DegToGrad( const Degrees : double ) : double
11243:   Function DegToRad( const Degrees : double ) : double
11244:   Function GradToCycle( const Grads : double ) : double
11245:   Function GradToDeg( const Grads : double ) : double
11246:   Function GradToRad( const Grads : double ) : double
11247:   Function RadToCycle( const Radians : double ) : double
11248:   Function RadToDeg( const Radians : double ) : double
11249:   Function RadToGrad( const Radians : double ) : double
11250:   Function DmsToDeg( const D, M : Integer; const S : double ) : double
11251:   Function DmsToRad( const D, M : Integer; const S : double ) : double
11252:   Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double )
11253:   Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal ) : string
11254:   Procedure CartesianToPolar( const X, Y : double; out R, Phi : double )
11255:   Procedure PolarToCartesian( const R, Phi : double; out X, Y : double )
11256:   Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double )
11257:   Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double )
11258:   Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double )
11259:   Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double )
11260:   Function CmToInch( const Cm : double ) : double
11261:   Function InchToCm( const Inch : double ) : double
11262:   Function FeetToMetre( const Feet : double ) : double
11263:   Function MetreToFeet( const Metre : double ) : double
11264:   Function YardToMetre( const Yard : double ) : double
11265:   Function MetreToYard( const Metre : double ) : double
11266:   Function NmToKm( const Nm : double ) : double
11267:   Function KmToNm( const Km : double ) : double
11268:   Function KmToSm( const Km : double ) : double
11269:   Function SmToKm( const Sm : double ) : double
11270:   Function LitreToGalUs( const Litre : double ) : double
11271:   Function GalUsToLitrel( const GalUs : double ) : double
11272:   Function GalUsToGalCan( const GalUs : double ) : double
11273:   Function GalCanToGalUs( const GalCan : double ) : double
11274:   Function GalUsToGalUk( const GalUs : double ) : double
11275:   Function GalUkToGalUs( const GalUk : double ) : double
11276:   Function LitreToGalCan( const Litre : double ) : double
11277:   Function GalCanToLitre( const GalCan : double ) : double
11278:   Function LitreToGalUk( const Litre : double ) : double
11279:   Function GalUkToLitrel( const GalUk : double ) : double
11280:   Function KgToLb( const Kg : double ) : double
11281:   Function LbToKg( const Lb : double ) : double

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11282: Function KgToOz( const Kg : double) : double
11283: Function OzToKg( const Oz : double) : double
11284: Function CwtUsToKg( const Cwt : double) : double
11285: Function CwtUsToKg( const Cwt : double) : double
11286: Function KaratToKg( const Karat : double) : double
11287: Function KgToCwtUs( const Kg : double) : double
11288: Function KgToCwtUs( const Kg : double) : double
11289: Function KgToKarat( const Kg : double) : double
11290: Function KgToSton( const Kg : double) : double
11291: Function KgToLton( const Kg : double) : double
11292: Function StonToKg( const STon : double) : double
11293: Function LtonToKg( const Lton : double) : double
11294: Function QrUsToKg( const Qr : double) : double
11295: Function QrUKToKg( const Qr : double) : double
11296: Function KgToQrUs( const Kg : double) : double
11297: Function KgToQrUk( const Kg : double) : double
11298: Function PascalToBar( const Pa : double) : double
11299: Function PascalToAt( const Pa : double) : double
11300: Function PascalToTorr( const Pa : double) : double
11301: Function BarToPascal( const Bar : double) : double
11302: Function AtToPascal( const At : double) : double
11303: Function TorrToPascal( const Torr : double) : double
11304: Function KnotToMs( const Knot : double) : double
11305: Function HpElectricToWatt( const HpE : double) : double
11306: Function HpMetricToWatt( const HpM : double) : double
11307: Function MsToKnot( const ms : double) : double
11308: Function WattToHpElectric( const W : double) : double
11309: Function WattToHpMetric( const W : double) : double
11310: function getBigPI: string; //PI of 1000 numbers
11311:
11312: procedure SIRegister_devutils(CL: TPSPPascalCompiler);
11313: begin
11314:   Function CDExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11315:   Procedure CDCopyFile( const FileName, DestName : string)
11316:   Procedure CDMoveFile( const FileName, DestName : string)
11317:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11318:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11319:   Function CDGetTempDir : string
11320:   Function CDGetFileSize( FileName : string) : longint
11321:   Function GetFileTime( FileName : string) : longint
11322:   Function GetShortName( FileName : string) : string
11323:   Function GetFullName( FileName : string) : string
11324:   Function WinReboot : boolean
11325:   Function WinDir : String
11326:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11327:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11328:   Function devExecutor : TdevExecutor
11329: end;
11330:
11331: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11332: begin
11333:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7);
11334:   Procedure Associate( Index : integer)
11335:   Procedure UnAssociate( Index : integer)
11336:   Function IsAssociated( Index : integer) : boolean
11337:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11338:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string)
11339:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11340:   procedure RefreshIcons;
11341:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11342:   function MergColor(Colors: Array of TColor): TColor;
11343:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11344:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11345:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11346:   function GetInverseColor(AColor: TColor): TColor;
11347:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11348:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer; ShadowColor: TColor);
11349:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11350:   Procedure GetSystemMenuFont(Font: TFont);
11351: end;
11352:
11353: //*****unit uPSI_JvHLParse;*****
11354: function IsStringConstant(const St: string): Boolean;
11355: function IsIntConstant(const St: string): Boolean;
11356: function IsRealConstant(const St: string): Boolean;
11357: function IsIdentifier(const ID: string): Boolean;
11358: function GetStringValue(const St: string): string;
11359: procedure ParseString(const S: string; Ss: TStrings);
11360: function IsStringConstantW(const St: WideString): Boolean;
11361: function IsIntConstantW(const St: WideString): Boolean;
11362: function IsRealConstantW(const St: WideString): Boolean;
11363: function IsIdentifierW(const ID: WideString): Boolean;
11364: function GetStringValueW(const St: WideString): WideString;
11365: procedure ParseStringW(const S: WideString; Ss: TStrings);
11366:
11367:
11368: //*****unit uPSI_JclMapi;*****
11369:
11370: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWND) : Boolean

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11371: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment : 
11372:   TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11373: Function JclSimpleBringUpSendMailDialog( const ASubject, ABody : string; const 
11374:   AAttach : TFileName; AParentWND : HWnd ) : Bool
11375: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11376: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11377: begin
11378:   //'Pdes_key_schedule', '^des_key_schedule // will not work
11379:   Function BuildType1Message( ADomain, AHost : String ) : String
11380:   Function BuildType3Message( ADomain, AHost, AUsername : WideString; APassword, ANonce : String ) : String
11381:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIaAuthenticationClass )
11382:   Function FindAuthClass( AuthName : String ) : TIaAuthenticationClass
11383: GBase64CodeTable', 'string'ABCDEFGHJKLMNOPQRSTUVWXYZabcdefg hijjklmnopqrstuvwxyz0123456789+
11384: GXECODETable', 'string'+0123456789ABCDEFGHJKLMNOPQRSTUVWXYZabcdefg hijjklmnopqrstuvwxyz
11385: GUUECodeTable', 'string`^!"#$%&''()**,-./0123456789:;<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_
11386: end;
11387:
11388: procedure SIRegister_WDOSocketUtils(CL: TPSPascalCompiler);
11389: begin
11390: ('IpAny', 'LongWord').SetUInt( $00000000 );
11391: IpLoopBack', 'LongWord').SetUInt( $7F000001 );
11392: IpBroadcast', 'LongWord').SetUInt( $FFFFFF );
11393: IpNone', 'LongWord').SetUInt( $FFFFFF );
11394: PortAny', 'LongWord( $0000 );
11395: SocketMaxConnections', 'LongInt'( 5 );
11396: TIpAddr', 'LongWord
11397: TIpRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11398: Function HostToNetLong( HostLong : LongWord ) : LongWord
11399: Function HostToNetShort( HostShort : Word ) : Word
11400: Function NetToHostLong( NetLong : LongWord ) : LongWord
11401: Function NetToHostShort( NetShort : Word ) : Word
11402: Function StrToIp( Ip : string ) : TIpAddr
11403: Function IpToStr( Ip : TIpAddr ) : string
11404: end;
11405:
11406: (*-----*)
11407: procedure SIRegister_ALSMTPClient(CL: TPSPascalCompiler);
11408: begin
11409:   TAISmtpClientAuthType', '( AlsmtpClientAuthNone, alsmtpClientAuth'
11410:     +'hPlain, AlsmtpClientAuthLogin, AlsmtpClientAuthCramMD5, AlsmtpClientAuthCr'
11411:     +'amShal, AlsmtpClientAuthAutoSelect )
11412:   TAISmtpClientAuthTypeSet', 'set of TAISmtpClientAuthType
11413:   SIRegister_TAISmtpClient(CL);
11414: end;
11415:
11416: procedure SIRegister_WDOSPlcUtils(CL: TPSPascalCompiler);
11417: begin
11418: 'TBitNo', 'Integer
11419: TStByteNo', 'Integer
11420: TStationNo', 'Integer
11421: TInOutNo', 'Integer
11422: TIO', '( EE, AA, NE, NA )
11423: TBitSet', 'set of TBitNo
11424: TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11425: TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11426: TBitAddr', 'LongInt
11427: TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11428: TByteAddr', 'SmallInt
11429: TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11430: Function BitAddr(aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11431: Function BusByteAddr(aIo : TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStByteNo:TStByteNo;aBitNo:TBitNo):TBitAddr;
11432: Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var
11433: aBitNo:TBitNo);
11434: Function BitAddrToStr( Value : TBitAddr ) : string
11435: Function StrToBitAddr( const Value : string ) : TBitAddr
11436: Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11437: Function BusByteAddr(aIo:TIO;aInOutNo:TInOutNo;aStation:TStatNo;aStByteNo: TStByteNo):TByteAddr
11438: Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11439: Function ByteAddrToStr( Value : TByteAddr ) : string
11440: Function StrToByteAddr( const Value : string ) : TByteAddr
11441: Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11442: Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11443: Function InOutStateToStr( State : TInOutState ) : string
11444: Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11445: Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11446:
11447: procedure SIRegister_WDOSTimers(CL: TPSPascalCompiler);
11448: begin
11449: TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11450:   +'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )
11451: DpmiPmVector', 'Int64
11452: 'DInterval', 'LongInt'( 1000 );
11453: //'DEnabled', 'Boolean')BoolToStr( True );
11454: 'DIntFreq', 'string' if64
11455: //'DMessages', 'Boolean if64';
11456: SIRegister_TwdxCustomTimer(CL);

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

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11546: Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11547: Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean
11548: Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11549: Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11550: Function SHFreeMem( var P : Pointer ) : Boolean
11551: Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PIItemIdList
11552: Function PathToPidl( const Path : string; Folder : IShellFolder ) : PIItemIdList
11553: Function PathToPidlBind( const FileName : string; out Folder : IShellFolder ) : PIItemIdList
11554: Function PidlBindToParent( const IdList:PIItemIdList;out Folder:IShellFolder;out Last:PIItemIdList):Bool;
11555: Function PidlCompare( const Pidl1, Pidl2 : PIItemIdList ) : Boolean
11556: Function PidlCopy( const Source : PIItemIdList; out Dest : PIItemIdList ) : Boolean
11557: Function PidlFree( var IdList : PIItemIdList ) : Boolean
11558: Function PidlGetDepth( const Pidl : PIItemIdList ) : Integer
11559: Function PidlGetLength( const Pidl : PIItemIdList ) : Integer
11560: Function PidlGetNext( const Pidl : PIItemIdList ) : PIItemIdList
11561: Function PidlToPath( Idlist : PIItemIdList ) : string
11562: Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11563: Function StrRetToString( IdList : PIItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11564: PShellLink', '^TShellLink // will not work
11565: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11566: +'ingDirectory : string; IdList : PIItemIdList; Target : string; Description '
11567: +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11568: Procedure ShellLinkFree( var Link : TShellLink )
11569: Function ShellLinkResolve( const FileName : string; var Link : TShellLink ) : HRESULT
11570: Function ShellLinkCreate( const Link : TShellLink; const FileName : string ) : HRESULT
11571: Function ShellLinkCreateSystem( const Link:TShellLink;const Folder:Integer; const FileName:string ):HRESULT;
11572: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon ) : Boolean
11573: Function SHDllGetVersion( const FileName : string; var Version : TDllVersionInfo ) : Boolean
11574: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal ) : HICON
11575: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean ) : Boolean
11576: Function OverlayIconShortCut( var Large, Small : HICON ) : Boolean
11577: Function OverlayIconShared( var Large, Small : HICON ) : Boolean
11578: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PIItemIdList ) : string
11579: Function ShellExecEx( const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int ):Bool;
11580: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int ):Bool;
11581: Function ShellExecAndWait( const FileName:string;const Params:string;const Verb:string;CmdShow:Int ):Bool;
11582: Function ShellOpenAs( const FileName : string ) : Boolean
11583: Function ShellRasDial( const EntryName : string ) : Boolean
11584: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer ):Boolean
11585: Function GetFileNameIcon( const FileName : string; Flags : Cardinal ) : HICON
11586: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11587: Function GetFileExeType( const FileName : TFileName ) : TJclFileExeType
11588: Function ShellFindExecutable( const FileName, DefaultDir : string ) : string
11589: Procedure keybd_event( bvK : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD )
11590: Function OemKeyScan( wOemChar : Word ) : DWORD
11591: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD )
11592: end;
11593:
11594: procedure SIRRegister_cXMLFunctions(CL: TPPascalCompiler);
11595: begin
11596: xmlVersion', 'String '1.0 FindClass('TOBJECT'), 'Exml
11597: //Function xmlValidChar( const Ch : AnsiChar ) : Boolean;
11598: Function xmlValidChar1( const Ch : UCS4Char ) : Boolean;
11599: Function xmlValidChar2( const Ch : WideChar ) : Boolean;
11600: Function xmlIsSpaceChar( const Ch : WideChar ) : Boolean
11601: Function xmlIsLetter( const Ch : WideChar ) : Boolean
11602: Function xmlIsDigit( const Ch : WideChar ) : Boolean
11603: Function xmlIsNameStartChar( const Ch : WideChar ) : Boolean
11604: Function xmlIsNameChar( const Ch : WideChar ) : Boolean
11605: Function xmlIsPubidChar( const Ch : WideChar ) : Boolean
11606: Function xmlValidName( const Text : UnicodeString ) : Boolean
11607: //xmlSpace', 'Char #$20 or #$9 or #$D or #$A);
11608: //Function xmlSkipSpace( var P : PWideChar ) : Boolean
11609: //Function xmlSkipEq( var P : PWideChar ) : Boolean
11610: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString ) : Boolean
11611: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer )
11612: : TUnicodeCodecClass
11612: Function xmlResolveEntityReference( const RefName : UnicodeString ) : WideChar
11613: Function xmlTag( const Tag : UnicodeString ) : UnicodeString
11614: Function xmlEndTag( const Tag : UnicodeString ) : UnicodeString
11615: Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString ) : UnicodeString
11616: Function xmlEmptyTag( const Tag, Attr : UnicodeString ) : UnicodeString
11617: Procedure xmlSafeTextInPlace( var Txt : UnicodeString )
11618: Function xmlSafeText( const Txt : UnicodeString ) : UnicodeString
11619: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer ):UnicodeString
11620: Function xmlTabIndent( const IndentLevel : Integer ) : UnicodeString
11621: Function xmlComment( const Comment : UnicodeString ) : UnicodeString
11622: Procedure SelfTestcXMLFunctions
11623: end;
11624:
11625: (*-----*)
11626: procedure SIRRegister_DepWalkUtils(CL: TPPascalCompiler);
11627: begin
11628: Function AWaitCursor : IUnknown
11629: Function ChangeCursor( NewCursor : TCursor ) : IUnknown
11630: Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean )
11631: Function YesNo( const ACaption, AMsg : string ) : boolean
11632: Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings )
11633: Function GetBorlandLibPath( Version : integer; ForDelphi : boolean ) : string

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11634: Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean ) : string
11635: Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings )
11636: Procedure GetSystemPaths( Strings : TStrings )
11637: Procedure MakeEditNumeric( EditHandle : integer )
11638: end;
11639:
11640: procedure SIRegister_yuvconverts(CL: TPSPascalCompiler);
11641: begin
11642:   AddTypeS('TVideoCodec','(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11643:   'BI_YUY2','LongWord( $32595559 );
11644:   'BI_UYVY','LongWord').SetUInt( $59565955 );
11645:   'BI_BTUV','LongWord').SetUInt( $50313459 );
11646:   'BI_YVU9','LongWord').SetUInt( $39555659 );
11647:   'BI_YUV12','LongWord( $30323449 );
11648:   'BI_Y8','LongWord').SetUInt( $20203859 );
11649:   'BI_Y211','LongWord').SetUInt( $31313259 );
11650: Function BICompressionToVideoCodec( Value : DWord ) : TVideoCodec
11651: Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11652: end;
11653:
11654: (*-----*)
11655: procedure SIRegister_AviCap(CL: TPSPascalCompiler);
11656: begin
11657:   'WM_USER','LongWord').SetUInt( $0400 );
11658:   'WM_CAP_START','LongWord').SetUInt($0400 );
11659:   'WM_CAP_END','longword').SetUInt($0400+85);
11660: //WM_CAP_START+ 85
11661: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11662: Function capSetCallbackOnErrorHandler( hwnd : THandle; fpProc : LongInt ) : LongInt
11663: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt ) : LongInt
11664: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt ) : LongInt
11665: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt ) : LongInt
11666: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11667: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt ) : LongInt
11668: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt ) : LongInt
11669: Function capSetUserData( hwnd : THandle; lUser : LongInt ) : Longint
11670: Function capGetUserData( hwnd : THandle ) : LongInt
11671: Function capDriverConnect( hwnd : THandle; I : Word ) : LongInt
11672: Function capDriverDisconnect( hwnd : THandle ) : LongInt
11673: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word ) : LongInt
11674: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word ) : LongInt
11675: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11676: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt ) : LongInt
11677: Function capFileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11678: Function capFileAlloc( hwnd : THandle; dwSize : LongInt ) : Longint
11679: Function capFileSaveAs( hwnd : THandle; szName : LongInt ) : LongInt
11680: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : Longint ) : LongInt
11681: Function capFileSaveDIB( hwnd : THandle; szName : LongInt ) : LongInt
11682: Function capEditCopy( hwnd : THandle ) : LongInt
11683: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11684: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11685: Function capGetAudioFormatSize( hwnd : THandle ) : LongInt
11686: Function capDlgVideoFormat( hwnd : THandle ) : LongInt
11687: Function capDlgVideoSource( hwnd : THandle ) : LongInt
11688: Function capDlgVideoDisplay( hwnd : THandle ) : LongInt
11689: Function capDlgVideoCompression( hwnd : THandle ) : LongInt
11690: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11691: Function capGetVideoFormatSize( hwnd : THandle ) : LongInt
11692: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11693: Function capPreview( hwnd : THandle; f : Word ) : LongInt
11694: Function capPreviewRate( hwnd : THandle; wMS : Word ) : LongInt
11695: Function capOverlay( hwnd : THandle; f : Word ) : LongInt
11696: Function capOverwriteScale( hwnd : THandle; f : Word ) : LongInt
11697: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11698: Function capSetScrollPos( hwnd : THandle; lpP : LongInt ) : LongInt
11699: Function capGrabFrame( hwnd : THandle ) : LongInt
11700: Function capGrabFrameNoStop( hwnd : THandle ) : LongInt
11701: Function capCaptureSequence( hwnd : THandle ) : LongInt
11702: Function capCaptureSequenceNoFile( hwnd : THandle ) : LongInt
11703: Function capCaptureStop( hwnd : THandle ) : LongInt
11704: Function capCaptureAbort( hwnd : THandle ) : LongInt
11705: Function capCaptureSingleFrameOpen( hwnd : THandle ) : LongInt
11706: Function capCaptureSingleFrameClose( hwnd : THandle ) : LongInt
11707: Function capCaptureSingleFrame( hwnd : THandle ) : LongInt
11708: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word ) : LongInt
11709: Function capCaptureSetSetup( hwnd : THandle; s : Longint; wSize : Word ) : LongInt
11710: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt ) : LongInt
11711: Function capGetMCIDeviceName( hwnd : THandle; szName : Longint; wSize : Word ) : LongInt
11712: Function capPaletteOpen( hwnd : THandle; szName : LongInt ) : LongInt
11713: Function capPaletteSave( hwnd : THandle; szName : LongInt ) : LongInt
11714: Function capPalettePaste( hwnd : THandle ) : LongInt
11715: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt ) : LongInt
11716: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt ) : LongInt
11717: //PCapDriverCaps', '^TCapDriverCaps // will not work
11718: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11719: +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11720: +' y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hVid'
11721: +'eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11722: //PCapStatus', '^TCapStatus // will not work

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11723: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11724: +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT'
11725: +'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11726: +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11727: +'rrentWaveSamples : WORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11728: +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD; '
11729: +' wNumAudioAllocated : WORD; end
11730: //PCaptureParms', '^TCaptureParms // will not work
11731: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11732: +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fYield : BOOL; dwI'
11733: +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11734: +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11735: +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11736: +'ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11737: +'wMCISearchBar : DWORD; dwMCISearchTime : DWORD; fStepCaptureAt2x : BOOL; wSt'
11738: +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11739: +'he : BOOL; AVStreamMaster : WORD; end
11740: // PCapInfoChunk', '^TCapInfoChunk // will not work
11741: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11742: 'CONTROLCALLBACK_PREROLL','LongInt'( 1);
11743: 'CONTROLCALLBACK_CAPTURING','LongInt'( 2);
11744: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer ) : THandle
11745: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11746: 'IDS_CAP_BEGIN','LongInt'( 300);
11747: 'IDS_CAP_END','LongInt'( 301);
11748: 'IDS_CAP_INFO','LongInt'( 401);
11749: 'IDS_CAP_OUTOFMEM','LongInt'( 402);
11750: 'IDS_CAP_FILEEXISTS','LongInt'( 403);
11751: 'IDS_CAP_ERRORPALOPEN','LongInt'( 404);
11752: 'IDS_CAP_ERRORPALSAVE','LongInt'( 405);
11753: 'IDS_CAP_ERRORDIBSAVE','LongInt'( 406);
11754: 'IDS_CAP_DEFAVIEEXT','LongInt'( 407);
11755: 'IDS_CAP_DEFPALEXT','LongInt'( 408);
11756: 'IDS_CAP_CANTOPEN','LongInt'( 409);
11757: 'IDS_CAP_SEQ_MSGSTART','LongInt'( 410);
11758: 'IDS_CAP_SEQ_MSGSTOP','LongInt'( 411);
11759: 'IDS_CAP_VIDEODITERR','LongInt'( 412);
11760: 'IDS_CAP_READONLYFILE','LongInt'( 413);
11761: 'IDS_CAP_WRITEERROR','LongInt'( 414);
11762: 'IDS_CAP_NODISKSPACE','LongInt'( 415);
11763: 'IDS_CAP_SETFILESIZE','LongInt'( 416);
11764: 'IDS_CAP_SAVEASPERCENT','LongInt'( 417);
11765: 'IDS_CAP_DRIVER_ERROR','LongInt'( 418);
11766: 'IDS_CAP_WAVE_OPEN_ERROR','LongInt'( 419);
11767: 'IDS_CAP_WAVE_ALLOC_ERROR','LongInt'( 420);
11768: 'IDS_CAP_WAVE_PREPARE_ERROR','LongInt'( 421);
11769: 'IDS_CAP_WAVE_ADD_ERROR','LongInt'( 422);
11770: 'IDS_CAP_WAVE_SIZE_ERROR','LongInt'( 423);
11771: 'IDS_CAP_VIDEO_OPEN_ERROR','LongInt'( 424);
11772: 'IDS_CAP_VIDEO_ALLOC_ERROR','LongInt'( 425);
11773: 'IDS_CAP_VIDEO_PREPARE_ERROR','LongInt'( 426);
11774: 'IDS_CAP_VIDEO_ADD_ERROR','LongInt'( 427);
11775: 'IDS_CAP_VIDEO_SIZE_ERROR','LongInt'( 428);
11776: 'IDS_CAP_FILE_OPEN_ERROR','LongInt'( 429);
11777: 'IDS_CAP_FILE_WRITE_ERROR','LongInt'( 430);
11778: 'IDS_CAP_RECORDING_ERROR','LongInt'( 431);
11779: 'IDS_CAP_RECORDING_ERROR2','LongInt'( 432);
11780: 'IDS_CAP_AVI_INIT_ERROR','LongInt'( 433);
11781: 'IDS_CAP_NO_FRAME_CAP_ERROR','LongInt'( 434);
11782: 'IDS_CAP_NO_PALETTE_WARN','LongInt'( 435);
11783: 'IDS_CAP_MCI_CONTROL_ERROR','LongInt'( 436);
11784: 'IDS_CAP_MCI_CANT_STEP_ERROR','LongInt'( 437);
11785: 'IDS_CAP_NO_AUDIO_CAP_ERROR','LongInt'( 438);
11786: 'IDS_CAP_AVI_DRAWDIB_ERROR','LongInt'( 439);
11787: 'IDS_CAP_COMPRESSOR_ERROR','LongInt'( 440);
11788: 'IDS_CAP_AUDIO_DROP_ERROR','LongInt'( 441);
11789: 'IDS_CAP_STAT_LIVE_MODE','LongInt'( 500);
11790: 'IDS_CAP_STAT_OVERLAY_MODE','LongInt'( 501);
11791: 'IDS_CAP_STAT_CAP_INIT','LongInt'( 502);
11792: 'IDS_CAP_STAT_CAP_FINI','LongInt'( 503);
11793: 'IDS_CAP_STAT_PALETTE_BUILD','LongInt'( 504);
11794: 'IDS_CAP_STAT_OPTPAL_BUILD','LongInt'( 505);
11795: 'IDS_CAP_STAT_I_FRAMES','LongInt'( 506);
11796: 'IDS_CAP_STAT_L_FRAMES','LongInt'( 507);
11797: 'IDS_CAP_STAT_CAP_L_FRAMES','LongInt'( 508);
11798: 'IDS_CAP_STAT_CAP_AUDIO','LongInt'( 509);
11799: 'IDS_CAP_STAT_VIDEOCURRENT','LongInt'( 510);
11800: 'IDS_CAP_STAT_VIDEOAUDIO','LongInt'( 511);
11801: 'IDS_CAP_STAT_VIDEOONLY','LongInt'( 512);
11802: 'IDS_CAP_STAT_FRAMESDROPPED','LongInt'( 513);
11803: 'AVICAP32','String 'AVICAP32.dll
11804: end;
11805:
11806: procedure SIRegister_ALFcnMisc(CL: TPSPascalCompiler);
11807: begin
11808:   Function AlBoolToInt( Value : Boolean ) : Integer
11809:   Function ALMediumPos( LTotal, LBorder, LObject : integer ) : Integer

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11810: Function AlIsValidEmail( const Value : AnsiString ) : boolean
11811: Function AlLocalDateTimeToGMTDateTime( const aLocalDateTime : TDateTime ) : TdateTime
11812: Function ALInc( var x : integer; Count : integer ) : Integer
11813: function ALCopyStr(const aSourceString: AnsiString; aStart, aLength: Integer): AnsiString
11814: function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11815: procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11816: Function ALIsInteger(const S: AnsiString): Boolean;
11817: function ALIsDecimal(const S: AnsiString): boolean;
11818: Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11819: function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11820: function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11821: function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11822: function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11823: Function ALRandomStrL(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11824: Function ALRandomStr(const aLength: Longint): AnsiString;
11825: Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11826: Function ALRandomStrU(const aLength: Longint): String;
11827: end;
11828:
11829: procedure SIRegister_ALJSONDoc(CL: TPSPascalCompiler);
11830: begin
11831: Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const
11832: aTrueStr: AnsiString; const aFalseStr : AnsiString)
11833:
11834: procedure SIRegister_ALWindows(CL: TPSPascalCompiler);
11835: begin
11836:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11837:   +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11838:   +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11839:   +'; ullAvailExtendedVirtual : Int64; end
11840: TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11841: Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11842: Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11843: 'INVALID_SET_FILE_POINTER','LongInt'( DWORD ( - 1 ) );
11844: 'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2);
11845: 'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1);
11846: 'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8);
11847: 'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4);
11848: end;
11849:
11850: procedure SIRegister_IPCThrd(CL: TPSPascalCompiler);
11851: begin
11852:   SIRegister_THandledObject(CL);
11853:   SIRegister_TEvent(CL);
11854:   SIRegister_TMutex(CL);
11855:   SIRegister_TSharedMem(CL);
11856:   'TRACE_BUF_SIZE','LongInt'( 200 * 1024 );
11857:   'TRACE_BUFFER','String 'TRACE_BUFFER
11858:   'TRACE_MUTEX','String 'TRACE_MUTEX
11859:   //PTraceEntry', '^TTraceEntry // will not work
11860:   SIRegister_TIPCTracer(CL);
11861:   'MAX_CLIENTS','LongInt'( 6 );
11862:   'IPCTIMEOUT','LongInt'( 2000 );
11863:   'IPCBUFFER_NAME','String 'BUFFER_NAME
11864:   'BUFFER_MUTEX_NAME','String 'BUFFER_MUTEX
11865:   'MONITOR_EVENT_NAME','String 'MONITOR_EVENT
11866:   'CLIENT_EVENT_NAME','String 'CLIENT_EVENT
11867:   'CONNECT_EVENT_NAME','String 'CONNECT_EVENT
11868:   'CLIENT_DIR_NAME','String 'CLIENT_DIRECTORY
11869:   'CLIENT_DIR_MUTEX','String 'DIRECTORY_MUTEX
11870:   FindClass('TOBJECT'),'EMonitorActive
11871:   FindClass('TOBJECT'),'TIPCThread
11872:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSigna'
11873:   +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11874:   +'ach, evClientSwitch, evClientSignal, evClientExit )
11875:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11876:   TClientFlags', 'set of TClientFlag
11877:   //PEventData', '^TEventData // will not work
11878:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11879:   +'lag; Flags : TClientFlags; end
11880:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11881:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11882:   TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11883:   //PICEEventInfo', '^TIPCEEventInfo // will not work
11884:   TIPCEEventInfo', 'record FID:Integer;FKind:TEventKind;FData:TEventData;end
11885:   SIRegister_TIPCEEvent(CL);
11886:   //PCClientDirRecords', '^TClientDirRecords // will not work
11887:   SIRegister_TClientDirectory(CL);
11888:   TIPCState', '( stInactive, stDisconnected, stConnected )
11889:   SIRegister_TIPCThread(CL);
11890:   SIRegister_TIPCMonitor(CL);
11891:   SIRegister_TIPCCClient(CL);
11892:   Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11893:   end;
11894:
11895: (*-----*)
11896: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11897: begin

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11898:  SIRegister_TALGSMComm(CL);
11899:  Function AlGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11900:  Procedure AlGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
AMessage:AnsiString);
11901:  Function AlGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11902:  Function AlGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
UseGreekAlphabet:Bool):Widestring;
11903:  function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11904:  end;
11905:
11906: procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11907: begin
11908:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyInfo:Integer;
11909:   TALHTTPProtocolVersion', '( HTTPPpv_1_0, HTTPPpv_1_1 )
11910:   TALHTTPMethod', '(HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete);
11911:   TIInternetScheme', 'integer
11912:   TALIPv6Binary', 'array[1..16] of Char;
11913: // TALIPv6Binary = array[1..16] of ansiChar;
11914: // TIInternetScheme = Integer;
11915:  SIRegister_TALHTTPRequestHeader(CL);
11916:  SIRegister_TALHTTPCookie(CL);
11917:  SIRegister_TALHTTPCookieCollection(CL);
11918:  SIRegister_TALHTTPResponseHeader(CL);
11919:  Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11920:  Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11921: // Procedure ALEExtractHTTPFields(Separators,WhiteSpace, Quotes:TSysCharSet;
Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11922: // Procedure ALEExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11923: // Procedure ALEExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11924:  Function AlRemoveShemeFromUrl( aUrl : AnsiString ) : AnsiString
11925:  Function AlExtractShemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11926:  Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11927:  Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11928:  Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11929:  Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11930:  Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11931:  Function AlInternetCrackUrl2(var Url:AnsiString;var Anchor:AnsiString;Query:TALStrings):Boolean;
11932:  Function AlRemoveAnchorFromUrl( aUrl : AnsiString; var aAnchor : AnsiString ) : AnsiString;
11933:  Function AlRemoveAnchorFromUrl1( aUrl : AnsiString ) : AnsiString;
11934:  Function AlCombineUrl( RelativeUrl, BaseUrl : AnsiString ) : AnsiString;
11935:  Function AlCombineUrl1(RelativeUrl, BaseUrl, Anchor : AnsiString; Query:TALStrings) : AnsiString;
11936:  Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11937:  Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11938:  Function ALTryRfc822StrToGMTDateTime( const S : AnsiString; out Value : TDateTime ) : Boolean
11939:  Function ALRfc822StrToGMTDateTime( const s : AnsiString ) : TDateTime
11940:  Function ALTryIPV4StrToNumeric( aIPV4Str : ansiString; var aIPV4Num : Cardinal ) : Boolean
11941:  Function ALIPV4StrToNumeric( aIPV4 : ansiString ) : Cardinal
11942:  Function ALNumericToIPV4Str( aIPV4 : Cardinal ) : ansiString
11943:  Function ALZeroIpV6 : TALIPv6Binary
11944:  Function ALTryIPV6StrToBinary( aIPV6Str : ansiString; var aIPV6Bin : TALIPv6Binary ) : Boolean
11945:  Function ALIPV6StrToBinary( aIPV6 : ansiString ) : TALIPv6Binary
11946:  Function ALBinaryToIPV6Str( aIPV6 : TALIPv6Binary ) : ansiString
11947:  Function ALBinaryStrToIPV6Binary( aIPV6BinaryStr : ansiString ) : TALIPv6Binary
11948: end;
11949:
11950: procedure SIRegister_ALFcnsHTML(CL: TPSPascalCompiler);
11951: begin
11952:  Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
DecodeHTMLText:Bool;
11953:  Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11954:  Function ALXMLCDataElementEncode( Src : AnsiString ) : AnsiString
11955:  Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
11956:  Function ALUTF8XMLTextElementDecode( const Src : AnsiString ) : AnsiString
11957:  Function ALUTF8HTMLEncode(const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
useNumRef:bool):AnsiString;
11958:  Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11959:  Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean ) : AnsiString
11960:  Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
11961:  Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11962:  Procedure ALCompactHtmlTagParams( TagParams : TALStrings )
11963: end;
11964:
11965: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
11966: begin
11967:  SIRegister_TALEMailHeader(CL);
11968:  SIRegister_TALNewsArticleHeader(CL);
11969:  Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
decodeRealName:Bool):AnsiString;
11970:  Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11971:  Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
11972:  Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11973:  Function AlGenerateInternetMessageID : AnsiString;
11974:  Function AlGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11975:  Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString

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11976: Function AlDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11977: end;
11978: (*-----*)
11980: procedure SIRegister_ALFcnsWinSock(CL: TPSPPascalCompiler);
11981: begin
11982:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11983:   Function ALIPAddrToName( IPAddr : AnsiString) : AnsiString
11984:   Function ALgetLocalIPs : TALStrings
11985:   Function ALgetLocalHostName : AnsiString
11986: end;
11987:
11988: procedure SIRegister_ALFcnsCGI(CL: TPSPPascalCompiler);
11989: begin
11990:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest(WebRequest :
11991:     TALWebRequest;ServerVariables:TALStrings);
11991:   Procedure AlCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables :
11992:     TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11992:   Procedure AlCGIInitDefaultServerVariables( ServerVariables : TALStrings);
11993:   Procedure AlCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
11993:     ScriptFileName:AnsiString;Url:AnsiStr;
11994:   Procedure AlCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
11994:     ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11995:   Procedure AlCGIExec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
11995:     : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
11996:   Procedure AlCGIExec1( ScriptName,ScriptFileName, Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
11996:     WebRequest : TALIsapiRequest;
11996:     overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;
11997:     +'overloadedRequestContentStream:Tstream;var
11997:     ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
11998:   Procedure AlCGIExec2( ScriptName,ScriptFileName,Url,X_REWRITE_URL,
11998:     InterpreterFilename:AnsiString;WebRequest : TALIsapiRequest; var ResponseContentString : AnsiString;
11998:     ResponseHeader : TALHTTPResponseHeader);
11999: end;
12000:
12001: procedure SIRegister_ALFcnsExecute(CL: TPSPPascalCompiler);
12002: begin
12003:   TStartupInfoA', 'TStartupInfo
12004:   'SE_CREATE_TOKEN_NAME','String'( 'SeCreateTokenPrivilege
12005:   SE_ASSIGNPRIMARYTOKEN_NAME','String 'SeAssignPrimaryTokenPrivilege
12006:   SE_LOCK_MEMORY_NAME','String)( 'SeLockMemoryPrivilege
12007:   SE_INCREASE_QUOTA_NAME','String 'SeIncreaseQuotaPrivilege
12008:   SE_UNSOLICITED_INPUT_NAME','String 'SeUnsolicitedInputPrivilege
12009:   SE_MACHINE_ACCOUNT_NAME','String 'SeMachineAccountPrivilege
12010:   SE_TCB_NAME','String 'SeTcbPrivilege
12011:   SE_SECURITY_NAME','String 'SeSecurityPrivilege
12012:   SE_TAKE_OWNERSHIP_NAME','String 'SeTakeOwnershipPrivilege
12013:   SE_LOAD_DRIVER_NAME','String 'SeLoadDriverPrivilege
12014:   SE_SYSTEM_PROFILE_NAME','String 'SeSystemProfilePrivilege
12015:   SE_SYSTEMTIME_NAME','String 'SeSystemtimePrivilege
12016:   SE_PROF_SINGLE_PROCESS_NAME','String 'SeProfileSingleProcessPrivilege
12017:   SE_INC_BASE_PRIORITY_NAME','String 'SeIncreaseBasePriorityPrivilege
12018:   SE_CREATE_PAGEFILE_NAME','String 'SeCreatePagefilePrivilege
12019:   SE_CREATE_PERMANENT_NAME','String 'SeCreatePermanentPrivilege
12020:   SE_BACKUP_NAME','String 'SeBackupPrivilege
12021:   SE_RESTORE_NAME','String 'SeRestorePrivilege
12022:   SE_SHUTDOWN_NAME','String 'SeShutdownPrivilege
12023:   SE_DEBUG_NAME','String 'SeDebugPrivilege
12024:   SE_AUDIT_NAME','String 'SeAuditPrivilege
12025:   SE_SYSTEM_ENVIRONMENT_NAME','String 'SeSystemEnvironmentPrivilege
12026:   SE_CHANGE_NOTIFY_NAME','String 'SeChangeNotifyPrivilege
12027:   SE_REMOTE_SHUTDOWN_NAME','String 'SeRemoteShutdownPrivilege
12028:   SE_UNDOCK_NAME','String 'SeUndockPrivilege
12029:   SE_SYNC_AGENT_NAME','String 'SeSyncAgentPrivilege
12030:   SE_ENABLE_DELEGATION_NAME','String 'SeEnableDelegationPrivilege
12031:   SE_MANAGE_VOLUME_NAME','String 'SeManageVolumePrivilege
12032:   Function AlGetEnvironmentString : AnsiString
12033:   Function ALWinExec32(const FileName,CurrentDir,
12033:     Environment:AnsiString;InStream:Tstream;OutStream:TStream):Dword;
12034:   Function ALWinExec321(const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream):Dword;
12035:   Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer ) : DWORD
12036:   Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer ) : DWORD
12037:   Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean ) : Boolean
12038: end;
12039:
12040: procedure SIRegister_ALFcnsFile(CL: TPSPPascalCompiler);
12041: begin
12042:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
12042:     RemoveEmptySubDirectory : Boolean; const FileNameMask : ansiString; const MinFileAge : TdateTime):Boolean;
12043:   Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
12043:     RemoveEmptySubdirectory:Bool; const FileNameMask : ansiString; const MinFileAge : TdateTime ) : Boolean;
12044:   Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
12044:     FileNameMask : ansiString; const FailIfExists : Boolean) : Boolean
12045:   Function ALGetModuleName : ansistring
12046:   Function ALGetModuleFileNameWithoutExtension : ansistring
12047:   Function ALGetModulePath : ansistring
12048:   Function AlGetFileSize( const AFileName : ansistring ) : int64
12049:   Function AlGetFileVersion( const AFileName : ansistring ) : ansistring
12050:   Function ALGetFileCreationDateTime( const aFileName : Ansistring ) : TDate

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12051: Function ALGetFileLastWriteDateTime( const aFileName : Ansistring ) : TDateTime
12052: Function ALGetFileLastAccessDateTime( const aFileName : Ansistring ) : TDateTime
12053: Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime )
12054: Function ALIsDirectoryEmpty( const directory : ansiString ) : boolean
12055: Function ALFileExists( const Path : ansistring ) : boolean
12056: Function ALDirectoryExists( const Directory : Ansistring ) : Boolean
12057: Function ALCreateDir( const Dir : Ansistring ) : Boolean
12058: Function ALRemoveDir( const Dir : Ansistring ) : Boolean
12059: Function ALDeleteFile( const FileName : Ansistring ) : Boolean
12060: Function ALRenameFile( const OldName, NewName : ansistring ) : Boolean
12061: end;
12062:
12063: procedure SIRegister_ALFcnMime(CL: TPPSPascalCompiler);
12064: begin
12065:   NativeInt', 'Integer
12066:   NativeUInt', 'Cardinal
12067:   Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12068:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12069:   Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12070:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12071:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12072:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12073:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12074:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12075:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12076:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt ) : NativeInt;
12077:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt );
12078:   + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12079:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal ) : NativeInt;
12080:   Procedure ALMimeBase64Encode( const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray );
12081:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray );
12082:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray );
12083:   Function ALMimeBase64Decode( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray ):NativeInt;
12084:   Function ALMimeBase64DecodePartial( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : NativeInt;
12085:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal ):NativeInt;
12086:   Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName )
12087:   Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName )
12088:   Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName )
12089:   Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream )
12090:   Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream )
12091:   Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream )
12092:   +'cALMimeBase64_ENCODED_LINE_BREAK','LongInt'( 76 );
12093:   +'cALMimeBase64_DECODED_LINE_BREAK','LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3 );
12094:   +'cALMimeBase64_BUFFER_SIZE','LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4 );
12095:   Procedure ALFillMimeContentTypeByExtList( AMIMELIST : TALStrings )
12096:   Procedure ALFillExtByMimeTypeList( AMIMELIST : TALStrings )
12097:   Function ALGetDefaultFileExtFromMimeType( aContentType : AnsiString ) : AnsiString
12098:   Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString ) : AnsiString
12099: end;
12100:
12101: procedure SIRegister_ALXmlDoc(CL: TPPSPascalCompiler);
12102: begin
12103:   'cALXMLNodeMaxListSize','LongInt'( Maxint div 16 );
12104:   FindClass( 'TOBJECT' ), 'TALXMLNode
12105:   FindClass( 'TOBJECT' ), 'TALXMLNodeList
12106:   FindClass( 'TOBJECT' ), 'TALXMLDocument
12107:   TALXMLParseProcessingInstructionEvent', 'Procedure ( Sender:TObject; const Target,Data:Ansistring )
12108:   TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: Ansistring )
12109:   TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co'
12110:   +'nst Name : AnsiString; const Attributes : TALStrings )
12111:   TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString )
12112:   TALXMLNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '
12113:   +'ntCDATA, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12114:   +'ntDocType, ntDocFragment, ntNotation )
12115:   TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12116:   TALXMLDocOptions', 'set of TALXMLDocOption
12117:   TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12118:   TALXMLParseOptions', 'set of TALXMLParseOption
12119:   TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12120:   PALPointerXMLNodeList', '^PALPointerXMLNodeList // will not work
12121:   SIRegister_PALXMLDocError(CL);
12122:   SIRegister_TALXMLNodeList(CL);
12123:   SIRegister_TALXMLNode(CL);
12124:   SIRegister_TALXmlElementNode(CL);
12125:   SIRegister_TALXmlAttributeNode(CL);
12126:   SIRegister_TALXmlTextNode(CL);
12127:   SIRegister_TALXmlDocumentNode(CL);

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12128: SIRегистrier_TALXmlCommentNode(CL);
12129: SIRегистrier_TALXmlProcessingInstrNode(CL);
12130: SIRегистrier_TALXmlCDataNode(CL);
12131: SIRегистrier_TALXmlEntityRefNode(CL);
12132: SIRегистrier_TALXmlEntityNode(CL);
12133: SIRегистrier_TALXmlDocTypeNode(CL);
12134: SIRегистrier_TALXmlDocFragmentNode(CL);
12135: SIRегистrier_TALXmlNotationNode(CL);
12136: SIRегистrier_TALXMLDocument(CL);
12137: cALXMLUTF8EncodingStr', 'String 'UTF-8
12138: cALXMLUTF8HeaderStr', 'String '<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' + #13#10);
12139: CALNSDelim', 'String ': 
12140: CALXML', 'String 'xml
12141: CALVersion', 'String 'version
12142: CALEncoding', 'String 'encoding
12143: CALStandalone', 'String 'standalone
12144: CALDefaultNodeIndent', 'String '
12145: CALXmlDocument', 'String 'DOCUMENT
12146: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TalXMLDocument
12147: Procedure ALClearXMLDocument( const rootname:AnsiString;xmldoc:TalXMLDocument;const
EncodingStr:AnsiString );
12148: Function ALFindXmlNodeByChildNodeValue(xmlrec:TalxmlNode;const ChildNodeName,
ChildNodeValue:AnsiString;const Recurse: Boolean) : TalxmlNode
12149: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TalxmlNode; const NodeName : ansiString; const
ChildNodeName, ChildNodeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12150: Function ALFindXmlNodeByAttribute(xmlrec:TalxmlNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean):TalxmlNode
12151: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TalxmlNode; const NodeName : ansiString; const
AttributeName,AttributeValue : AnsiString; const Recurse : Boolean) : TalxmlNode
12152: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString ) :
AnsiString
12153: end;
12154:
12155: procedure SIRегистrier_TeCanvas(CL: TPSPascalCompiler);
12156: //based on TEEProc, TeCanvas, TEEEngine, TChart
12157: begin
12158: 'TeePiStep','Double').setExtended( Pi / 180.0 );
12159: 'TeeDefaultPerspective','LongInt'( 100 );
12160: 'TeeMinAngle','LongInt'( 270 );
12161: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12162: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12163: 'teeclCream','LongWord( TColor ( $FOFBFF ) );
12164: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4AOAO ) );
12165: 'teeclMoneyGreen','LongWord').SetUInt( TColor ( $C0DCC0 ) );
12166: 'teeclSkyBlue','LongWord').SetUInt( TColor ( $F0CAA6 ) );
12167: 'teeclCream','LongWord').SetUInt( TColor ( $FOFBFF ) );
12168: 'teeclMedGray','LongWord').SetUInt( TColor ( $A4AOAO ) );
12169: 'TA_LEFT','LongInt'( 0 );
12170: 'TA_RIGHT','LongInt'( 2 );
12171: 'TA_CENTER','LongInt'( 6 );
12172: 'TA_TOP','LongInt'( 0 );
12173: 'TA_BOTTOM','LongInt'( 8 );
12174: 'teePATCOPY','LongInt'( 0 );
12175: 'NumCirclePoints','LongInt'( 64 );
12176: 'teeDEFAULT_CHARSET','LongInt'( 1 );
12177: 'teeANTIALIASED_QUALITY','LongInt'( 4 );
12178: 'TA_LEFT','LongInt'( 0 );
12179: 'bs_Solid','LongInt'( 0 );
12180: 'teepf24Bit','LongInt'( 0 );
12181: 'teepfDevice','LongInt'( 1 );
12182: 'CM_MOUSELEAVE','LongInt'( 10000 );
12183: 'CM_SYSCOLORCHANGE','LongInt'( 10001 );
12184: 'DC_BRUSH','LongInt'( 18 );
12185: 'DC_PEN','LongInt'( 19 );
12186: teeCOLORREF', 'LongWord
12187: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12188: //TNotifyEvent', 'Procedure ( Sender : TObject )
12189: SIRегистrier_TFilterRegion(CL);
12190: SIRегистrier_IFormCreator(CL);
12191: SIRегистrier_TTeeFilter(CL);
12192: //TFilterClass', 'class of TTeeFilter
12193: SIRегистrier_TFilterItems(CL);
12194: SIRегистrier_TConvolveFilter(CL);
12195: SIRегистrier_TBlurFilter(CL);
12196: SIRегистrier_TTeePicture(CL);
12197: TPenEndStyle', '( esRound, esSquare, esFlat )
12198: SIRегистrier_TChartPen(CL);
12199: SIRегистrier_TChartHiddenPen(CL);
12200: SIRегистrier_TDottedGrayPen(CL);
12201: SIRегистrier_TDarkGrayPen(CL);
12202: SIRегистrier_TWhitePen(CL);
12203: SIRегистrier_TChartBrush(CL);
12204: TTeeView3DSrolled', 'Procedure ( IsHoriz : Boolean)
12205: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer)
12206: SIRегистrier_TVew3DOptions(CL);
12207: FindClass('TOBJECT'),TTeeCanvas
12208: TTeeTransparency', 'Integer
12209: SIRегистrier_TTeeBlend(CL);
12210: FindClass('TOBJECT'),TCanvas3D

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12211: SIRegister_TTeeShadow(CL);
12212: teeTGradientDirection', '(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
12213: gdFromBottomLeft, gdRadial, gdDiagonalUp, gdDiagonalDown')
12214: FindClass('TOBJECT'), 'TSubGradient
12215: SIRegister_TCustomTeeGradient(CL);
12216: SIRegister_TSubGradient(CL);
12217: SIRegister_TTeeGradient(CL);
12218: SIRegister_TTeeFontGradient(CL);
12219: TCanvasBackMode', '(cbmNone, cbmTransparent, cbmOpaque)
12220: TCanvasTextAlign', 'Integer
12221: TTeeCanvasHandle', 'HDC
12222: SIRegister_TTeeCanvas(CL);
12223: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12224: SIRegister_TFloatXYZ(CL);
12225: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12226: TRGB', 'record blue: byte; green: byte; red: byte; end
12227: {TRGB=packed record
12228:   Blue : Byte;
12229:   Green : Byte;
12230:   Red : Byte;
12231: //$/IFDEF CLX //Alpha : Byte; // Linux end;}
12232:
12233: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12234:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12235: TTeeCanvasSurfaceStyle', '(tcsSolid, tcsWire, tcsDot )
12236: TCanvas3DPlane', '( cpX, cpY, cpZ )
12237: //IInterface', 'IUnknown
12238: SIRegister_TCanvas3D(CL);
12239: SIRegister_TTeeCanvas3D(CL);
12240: TTrianglePoints', 'Array[0..2] of TPoint;
12241: TFourPoints', 'Array[0..3] of TPoint;
12242: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12243: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12244: Function Point3D( const x, y, z : Integer) : TPoint3D
12245: Procedure SwapDouble( var a, b : Double)
12246: Procedure SwapInteger( var a, b : Integer)
12247: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12248: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12249: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12250: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12251: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12252: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12253: Procedure UnClipCanvas( ACanvas : TCanvas)
12254: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12255: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12256: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12257: 'TeeCharForHeight', 'String 'W
12258: 'DarkerColorQuantity', 'Byte').SetUInt( 128);
12259: 'DarkColorQuantity', 'Byte').SetUInt( 64);
12260: TButtonGetColorProc', 'Function : TColor
12261: SIRegister_TTeeButton(CL);
12262: SIRegister_TButtonColor(CL);
12263: SIRegister_TComboFlat(CL);
12264: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12265: Function TeePoint( const ax, ay : Integer) : TPoint
12266: Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12267: Function PointInRectl( const Rect : TRect; x, y : Integer) : Boolean;
12268: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12269: Function OrientRectangle( const R : TRect) : TRect
12270: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12271: Function PolygonBounds( const P : array of TPoint) : TRect
12272: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12273: Function RGBValue( const Color : TColor) : TRGB
12274: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12275: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12276: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12277: Function TeeCull( const P : TFourPoints) : Boolean;
12278: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12279: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12280: Procedure SmoothStretch( Src, Dst : TBitmap);
12281: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12282: Function TeeDistance( const x, y : Double) : Double
12283: Function TeeLoadLibrary( const FileName : String) : HInst
12284: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12285: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12286: //Procedure TeeCalcLines( var Lines : TRGBArray; Bitmap : TBitmap)
12287: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
12288: Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12289: SIRegister_ICanvasHyperlinks(CL);
12290: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12291: end;
12292:
12293: procedure SIRegister_ovcmisc(CL: TPPSPascalCompiler);
12294: begin
12295:   TOvcHdc', 'Integer
12296:   TOvcHWN'D', 'Cardinal
12297:   TOvcHdc', 'HDC

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12298: TOvcHWNDF', 'HWND
12299: Function LoadBaseBitmap( lpBitmapName : PChar ) : HBITMAP
12300: Function LoadBaseCursor( lpCursorName : PChar ) : HCURSOR
12301: Function ovComStruct( const S1, S2, Size : Cardinal ) : Integer
12302: Function DefaultEpoch : Integer
12303: Function DrawButtonFrame(Canvas:TCanvas;const Client:TRect;IsDown,IsFlat:Bool;Style:TButtonStyle):TRect;
12304: Procedure FixRealPrim( P : PChar; DC : Char )
12305: Function GetDisplayString( Canvas : TCanvas; const S : string; MinChars, MaxWidth : Integer ) : string
12306: Function GetLeftButton : Byte
12307: Function GetNextDlgItem( Ctrl : TOvcHWnd ) : hWnd
12308: Procedure GetRGB( Clr : TColor; var IR, IG, IB : Byte )
12309: Function GetShiftFlags : Byte
12310: Function ovCreateRotatedFont( F : TFont; Angle : Integer ) : hFont
12311: Function GetTopTextMargin(Font:TFont;BorderStyle:TBorderStyle;Height:Integer;Ctl3D:Boolean): Integer
12312: Function ovExtractWord( N : Integer; const S : string; WordDelims : TCharSet ) : string
12313: Function ovIsForegroundTask : Boolean
12314: Function ovTrimLeft( const S : string ) : string
12315: Function ovTrimRight( const S : string ) : string
12316: Function ovQuotedStr( const S : string ) : string
12317: Function ovWordCount( const S : string; const WordDelims : TCharSet ) : Integer
12318: Function ovWordPosition(const N:Integer;const S: string;const WordDelims : TCharSet) : Integer
12319: Function PtrDiff( const P1, P2 : PChar ) : Word
12320: Procedure PtrInc( var P, Delta : Word )
12321: Procedure PtrDec( var P, Delta : Word )
12322: Procedure FixTextBuffer( InBuf, OutBuf : PChar; OutSize : Integer )
12323: Procedure TransStretchBlt( DstDC : TOvcHdc; DstX, DstY, DstW, DstH : Integer; SrcDC : TOvcHdc; SrcX, SrcY,
SrcW, SrcH : Integer; MaskDC : TOvcHdc; MaskX, MaskY : Integer )
12324: Function ovMinI( X, Y : Integer ) : Integer
12325: Function ovMaxI( X, Y : Integer ) : Integer
12326: Function ovMinL( X, Y : LongInt ) : LongInt
12327: Function ovMaxL( X, Y : LongInt ) : LongInt
12328: Function GenerateComponentName( PF : TWinControl; const Root : string ) : string
12329: Function PartialCompare( const S1, S2 : string ) : Boolean
12330: Function PathEllipsis( const S : string; MaxWidth : Integer ) : string
12331: Function ovCreateDisabledBitmap( FOriginal : TBitmap; OutlineColor : TColor ) : TBitmap
12332: Procedure ovCopyParentImage( Control : TControl; Dest : TCanvas )
12333: Procedure ovDrawTransparentBitmap( Dest : TCanvas; X, Y, W, H : Integer; Rect : TRect; Bitmap : TBitmap;
TransparentColor : TColor )
12334: Procedure DrawTransparentBitmapPrim(DC:TOvcHdc;Bitmap:HBitmap;xStart,yStart,Width:Int;Rect:TRect;
TransparentColor : TColorRef)
12335: Function ovWidthOf( const R : TRect ) : Integer
12336: Function ovHeightOf( const R : TRect ) : Integer
12337: Procedure ovDebugOutput( const S : string )
12338: Function GetArrowWidth( Width, Height : Integer ) : Integer
12339: Procedure StripCharSeq( CharSeq : string; var Str : string )
12340: Procedure StripCharFromEnd( aChr : Char; var Str : string )
12341: Procedure StripCharFromFront( aChr : Char; var Str : string )
12342: Function SystemParametersInfo( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12343: Function SystemParametersInfoNCM(uiAction,uiParam:UINT;pvParam:TNonClientMetrics;fWinIni:UINT):BOOL;
12344: Function SystemParametersInfoA( uiAction, uiParam : UINT; pvParam : UINT; fWinIni : UINT ) : BOOL
12345: Function CreateEllipticRgn( p1, p2, p3, p4 : Integer ) : HRGN
12346: Function CreateEllipticRgnIndirect( const p1 : TRect ) : HRGN
12347: Function CreateFontIndirect( const p1 : TLogFont ) : HFONT
12348: Function CreateMetaFile( p1 : PChar ) : HDC
12349: Function DescribePixelFormat(DC: HDC;p2:Int;p3:UINT;var p4:TPixelFormatDescriptor): BOOL
12350: Function DrawText(hdc: HDC;lpString:PChar;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12351: Function DrawTextS(hdc: HDC;lpString:string;nCount:Integer; var lpRect : TRect;uFormat:UINT):Integer
12352: Function SetMapperFlags( DC : HDC; Flag : DWORD ) : DWORD
12353: Function SetGraphicsMode( hdc : HDC; iMode : Integer ) : Integer
12354: Function SetMapMode( DC : HDC; p2 : Integer ) : Integer
12355: Function SetMetaFileBitsEx( Size : UINT; const Data : PChar ) : HMETAFILE
12356: //Function SetPaletteEntries(Palette:HPalette;startIndex,NumEntries:UINT,var PaletteEntries):UINT
12357: Function SetPixel( DC : HDC; X, Y : Integer; Color : COLORREF ) : COLORREF
12358: Function SetPixelV( DC : HDC; X, Y : Integer; Color : COLORREF ) : BOOL
12359: //Function SetPixelFormat( DC : HDC; PixelFormat : Integer; FormatDef : PPixelFormatDescriptor ) : BOOL
12360: Function SetPolyFillMode( DC : HDC; PolyFillMode : Integer ) : Integer
12361: Function StretchBlt(DestDC:HDC;X,Y,Width,Height:Int;SrcDC:HDC;XSrc,YSrc,SrcWidth,
SrcHeight:Int;Rop:DWORD):BOOL
12362: Function SetRectRgn( Rgn : HRgn; X1, Y1, X2, Y2 : Integer ) : BOOL
12363: Function StretchDIBits( DC : HDC; DestX,DestY,DestWidth,DestHeight,SrcX,SrcY,SrcWidth,
SrcHeight:Int;Bits:int; var BitsInfo : TBitmapInfo; Usage : UINT; Rop : DWORD ) : Integer
12364: Function SetROP2( DC : HDC; p2 : Integer ) : Integer
12365: Function SetStretchBltMode( DC : HDC; StretchMode : Integer ) : Integer
12366: Function SetSystemPaletteUse( DC : HDC; p2 : UINT ) : UINT
12367: Function SetTextCharacterExtra( DC : HDC; CharExtra : Integer ) : Integer
12368: Function SetTextColor( DC : HDC; Color : COLORREF ) : COLORREF
12369: Function SetTextAlign( DC : HDC; Flags : UINT ) : UINT
12370: Function SetTextJustification( DC : HDC; BreakExtra, BreakCount : Integer ) : Integer
12371: Function UpdateColors( DC : HDC ) : BOOL
12372: Function GetViewportExtEx( DC : HDC; var Size : TSize ) : BOOL
12373: Function GetViewportOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12374: Function GetWindowExtEx( DC : HDC; var Size : TSize ) : BOOL
12375: Function GetWindowOrgEx( DC : HDC; var Point : TPoint ) : BOOL
12376: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12377: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12378: Function MaskBlt(DestDC:HDC;XDest,YDest,Width,Height:Int;SrcDC : HDC; XScr, YScr : Integer; Mask :
HBITMAP; xMask, yMask : Integer; Rop : DWORD ) : BOOL
12379: Function PlgBlt(DestDC:HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,
yMask:Int):BOOL;

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12380: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12381: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12382: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD ) : BOOL
12383: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12384: Function PlayMetaFile( DC : HDC; MF : HMETAFILE ) : BOOL
12385: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12386: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12387: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12388: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12389: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12390: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12391: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12392: end;
12393:
12394: procedure SIRegister_ovcfiler(CL: TPPascalCompiler);
12395: begin
12396:   SIRegister_TOvcAbstractStore(CL);
12397:   // PExPropInfo', '^TExPropInfo // will not work
12398: //  TExPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12399:   SIRegister_TOvcPropertyList(CL);
12400:   SIRegister_TOvcDataFiler(CL);
12401:   Procedure UpdateStoredList( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean )
12402:   Procedure UpdateStoredList1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean )
12403:   Function CreateStoredItem( const CompName, PropName : string ) : string
12404:   Function ParseStoredItem( const Item : string; var CompName, PropName : string ) : Boolean
12405: //Function GetPropType( PropInfo : PExPropInfo ) : PTypeInfo
12406: end;
12407:
12408: procedure SIRegister_ovccoco(CL: TPPascalCompiler);
12409: begin
12410:   'ovsetsize','LongInt'( 16 );
12411:   'etSyntax','LongInt'( 0 );
12412:   'etSemantic','LongInt'( 1 );
12413:   'chCR','Char #13';
12414:   'chLF','Char #10';
12415:   'chLineSeparator',' chCR';
12416:   SIRegister_TCocoError(CL);
12417:   SIRegister_TCommentItem(CL);
12418:   SIRegister_TCommentList(CL);
12419:   SIRegister_TSymbolPosition(CL);
12420:   TGenListType', '( glNever, glAlways, glOnError )
12421:   TovBitSet', 'set of Integer
12422:   //PStartTable', '^TStartTable // will not work
12423:   'TovCharSet', 'set of AnsiChar
12424:   TAAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean)
12425:   TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList )
12426:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12427:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError )
12428:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP'
12429:     +'osition; const Data : string; ErrorType : integer)
12430:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer )
12431:   TGetCH', 'Function( pos : longint ) : char
12432:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer )
12433:   SIRegister_TCocoRScanner(CL);
12434:   SIRegister_TCocoRGrammar(CL);
12435:   '_EF','Char #0);
12436:   '_TAB','Char').SetString( #09);
12437:   '_CR','Char').SetString( #13);
12438:   '_LF','Char').SetString( #10);
12439:   '_EL','','').SetString( _CR);
12440:   '_EOF','Char').SetString( #26);
12441:   'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12442:   'minErrDist','LongInt'( 2 );
12443:   Function ovPadL( S : string; ch : char; L : integer ) : string
12444: end;
12445:
12446: TFormatSettings = record
12447:   CurrencyFormat: Byte;
12448:   NegCurrFormat: Byte;
12449:   ThousandSeparator: Char;
12450:   DecimalSeparator: Char;
12451:   CurrencyDecimals: Byte;
12452:   DateSeparator: Char;
12453:   TimeSeparator: Char;
12454:   ListSeparator: Char;
12455:   CurrencyString: string;
12456:   ShortDateFormat: string;
12457:   LongDateFormat: string;
12458:   TimeAMString: string;
12459:   TimePMString: string;
12460:   ShortTimeFormat: string;
12461:   LongTimeFormat: string;
12462:   ShortMonthNames: array[1..12] of string;
12463:   LongMonthNames: array[1..12] of string;
12464:   ShortDayNames: array[1..7] of string;
12465:   LongDayNames: array[1..7] of string;
12466:   TwoDigitYearCenturyWindow: Word;
12467: end;
12468:

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12469: procedure SIRegister_OvcFormatSettings(CL: TPPSPascalCompiler);
12470: begin
12471:   Function ovFormatSettings : TFormatSettings
12472: end;
12473:
12474: procedure SIRegister_ovcstr(CL: TPPSPascalCompiler);
12475: begin
12476:   TOvcCharSet', 'set of Char
12477:   ovBTable', 'array[0..255] of Byte
12478:   //BTable = array[0..{$IFDEF UNICODE}{$UNICODE_BMTABLE}{$FFFF}{$ELSE}{$ENDIF}{$ENDIF}] of Byte;
12479:   Function BinaryBPChar( Dest : PChar; B : Byte ) : PChar
12480:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12481:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12482:   Procedure BMMakeTable( MatchString : PChar; var BT : ovBTable )
12483:   Function BMSearch(var Buffer,BufLength:Cardinal;var BT:ovBTable;MatchString:PChar;var Pos:Cardinal):Bool;
12484:   Function BMSearchUC(var Buffer,BufLength:Card; var BT:ovBTable;MatchString:PChar; var Pos: Card):Boolean
12485:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12486:   Function DetabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12487:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12488:   Function HexLPChar( Dest : PChar; L : LongInt ) : PChar
12489:   Function HexPtrPChar( Dest : PChar; P : TObject ) : PChar
12490:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12491:   Function LoCaseChar( C : Char ) : Char
12492:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12493:   Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12494:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos : Cardinal ) : PChar
12495:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12496:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word )
12497:   Function StrStCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12498:   Function StrStDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12499:   Function StrStInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12500:   Function StrStInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12501:   Function StrStPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12502:   Function StrToInt64PChar( S : PChar; var I : LongInt ) : Boolean
12503:   Procedure TrimAllSpacesPChar( P : PChar )
12504:   Function TrimEmbeddedZeros( const S : string ) : string
12505:   Procedure TrimEmbeddedZerosPChar( P : PChar )
12506:   Function TrimTrailPrimPChar( S : PChar ) : PChar
12507:   Function TrimTrailPChar( Dest, S : PChar ) : PChar
12508:   Function TrimTrailingZeros( const S : string ) : string
12509:   Procedure TrimTrailingZerosPChar( P : PChar )
12510:   Function UpCaseChar( C : Char ) : Char
12511:   Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12512:   Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12513:   //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal ) : Boolean;
12514: end;
12515:
12516: procedure SIRegister_AfUtils(CL: TPPSPascalCompiler);
12517: begin
12518:   //PRaiseFrame', '^TRaiseFrame // will not work
12519:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12520:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12521:   Procedure SafeCloseHandle( var Handle : THandle )
12522:   Procedure ExchangeInteger( X1, X2 : Integer )
12523:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12524:   Function LongMulDiv( Multi, Mult2, Divl : Longint ) : Longint
12525:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12526:
12527: FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12528:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12529:   function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12530:     function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12531:                                         HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12532:                                         SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12533:                                         const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12534:                                         var GrantedAccess: DWORD); var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12535:     function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12536:                                             HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12537:                                             SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12538:                                             AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12539:                                             ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12540:                                             var GrantedAccess: DWORD); var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12541:     function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12542:                                                       HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12543:                                                       SecurityDescriptor: PSecurityDescriptor; PrincipalsSelfSid: PSID; DesiredAccess: DWORD;
12544:                                                       AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12545:                                                       ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12546:                                                       var GrantedAccess: DWORD); var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12547:     function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12548:     function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12549:     function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12550:                                 lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;
12551:                                 lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12552:                                 dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLOChar;
12553:                                 const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12554:     function GetCurrentHwProfile(var lphwProfileInfo: THWProfileInfo): BOOL; stdcall;
12555:     function GetFileSecurity(lpFileName: PKOLOChar; RequestedInformation: SECURITY_INFORMATION;
12556:                             pSecurityDescriptor: PSecurityDescriptor;nLength:DWORD;var lpnLengthNeeded: DWORD):BOOL; stdcall;

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

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12645: //Function wCommConfigDialog( lpszName : PKOLChar; hWnd : HWND; var lpCC : TCommConfig) : BOOL
12646: Function wCompareString( Locale : LCID; dwCmpFlags : DWORD; lpString1 : PKOLChar; cchCount1 : Integer;
lpString2 : PKOLChar; cchCount2 : Integer) : Integer
12647: Function wCopyFile( lpExistingFileName, lpNewFileName : PKOLChar; bFailIfExists : BOOL) : BOOL
12648: //Function wCopyFileEx( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TFNProgressRoutine; lpData : Pointer; pbCancel : PBool; dwCopyFlags : DWORD) : BOOL
12649: Function wCreateDirectory( lpPathName : PKOLChar; lpSecurityAttributes : PSecurityAttributes) : BOOL
12650: Function wCreateDirectoryEx(lpTemplateDirectory,
lpNewDirectory:PKOLChar;lpSecAttrib:PSecurityAttributes):BOOL
12651: Function wCreateEvent( lpEventAttributes:PSecurityAttribs:bManualReset,
bInitialState:BOOL;lpName:PKOLChar):THandle
12652: Function wCreateFile( lpFileName : PKOLChar; dwDesiredAccess, dwShareMode : DWORD; lpSecurityAttributes :
PSecurityAttributes; dwCreationDisposition, dwFlagsAndAttributes:DWORD:hTemplateFile:THandle):THandle
12653: Function wCreateFileMapping( hFile : THandle; lpFileMappingAttributes : PSecurityAttributes; flProtect,
dwMaximumSizeHigh, dwMaximumSizeLow : DWORD; lpName : PKOLChar) : THandle
12654: Function wCreateHardLink(lpFileName,
lpExistingFileName:PKOLChar;lpSecurityAttributes:PSecurityAttributes):BOOL
12655: Function CreateMailslot(lpName:PKOLChar;MaxMessSize:DWORD;lReadTimeout:DWORD;lpSecurityAttrib:PSecurityAttributes):THandle;
12656: Function wCreateNamedPipe( lpName : PKOLChar; dwOpenMode, dwPipeMode, nMaxInstances, nOutBufferSize,
nInBufferSize, nDefaultTimeOut : DWORD; lpSecurityAttributes : PSecurityAttributes) : THandle
12657: //Function CreateProcess( lpApplicationName : PKOLChar; lpCommandLine : PKOLChar; lpProcessAttributes,
lpThreadAttributes : PSecurityAttributes; bInheritHandles : BOOL; dwCreationFlags : DWORD; lpEnvironment :
Pointer;lpCurrentDirectory:PKOLChar;const lpStartupInfo:TStartupInfo;var
lpProcessInfo:TProcessInformation):BOOL
12658: Function wCreateSemaphore(lpSemaphoreAttributes: PSecurityAttributes; lInitialCount, lMaximumCount :
Longint; lpName : PKOLChar) : THandle
12659: Function wCreateWaitableTimer(lpTimerAttrbs:PSecurityAttribs;bManualReset:BOOL;lpTimerName:PKOLChar):THandle;
12660: Function wDefineDosDevice( dwFlags : DWORD; lpDeviceName, lpTargetPath : PKOLChar) : BOOL
12661: Function wDeleteFile( lpFileName : PKOLChar) : BOOL
12662: Function wEndUpdateResource( hUpdate : THandle; fDiscard : BOOL) : BOOL
12663: //Function
wEnumCalendarInfo(lpCalInfEnumProc:TFNCalInfEnumProc;Locale:LCID;Calendar:CALID;CalType:CALTYPE):BOOL,
12664: //Function wEnumDateFormats(lpDateFmtEnumProc: TFNDateFmtEnumProc; Locale : LCID; dwFlags : DWORD) : BOOL
12665: //Function
wEnumResourceNames(hModule:HMODULE;lpType:PKOLChar;lpEnumFunc:ENUMRESNAMEPROC;lParam:Longint):BOOL,
12666: //Function wEnumResourceTypes( hModule:HMODULE; lpEnumFunc:ENUMRESTYPEPROC;lParam:Longint):BOOL,
12667: //Function wEnumSystemCodePages( lpCodePageEnumProc : TFNCodepageEnumProc; dwFlags : DWORD) : BOOL
12668: //Function wEnumSystemLocales( lpLocaleEnumProc : TFNLocaleEnumProc; dwFlags : DWORD) : BOOL
12669: //Function wEnumTimeFormats(lpTimeFmtEnumProc:TFNTimeFmtEnumProc;Locale:LCID;dwFlags:DWORD):BOOL,
12670: Function wExpandEnvironmentStrings( lpSrc : PKOLChar; lpDst : PKOLChar; nSize : DWORD) : DWORD
12671: Procedure wFatalAppExit( uAction : UINT; lpMessageText : PKOLChar)
12672: //Function wFillConsoleOutputCharacter( hConsoleOutput : THandle; cCharacter : KOLChar; nLength : DWORD;
dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD) : BOOL
12673: Function wFindAtom( lpString : PKOLChar) : ATOM
12674: Function
wFindFirstChangeNotification(lpPathName:PKOLChar;bWatchSubtree:BOOL;dwNotifyFilter:DWORD):THandle;
12675: Function wFindFirstFile( lpFileName : PKOLChar; var lpFindFileData : TWIN32FindData) : THandle
12676: //Function wFindFirstFileEx( lpFileName : PKOLChar; fInfoLevelId : TFIndexInfoLevels; lpFindFileData :
Pointer; fSearchOp : TFIndexSearchOps; lpSearchFilter : Pointer; dwAdditionalFlags : DWORD) : BOOL
12677: Function wFindNextFile( hFindFile : THandle; var lpFindFileData : TWIN32FindData) : BOOL
12678: Function wFindResource( hModule : HMODULE; lpName, lpType : PKOLChar) : HRSRC
12679: Function wFindResourceEx( hModule : HMODULE; lpType, lpName : PKOLChar; wLanguage : Word) : HRSRC
12680: Function
wFoldString(dwMapFlags:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Integer):Integer;
12681: //Function wFormatMessage( dwFlags : DWORD; lpSource : Pointer; dwMessageId : DWORD; dwLanguageId :
DWORD; lpBuffer : PKOLChar; nSize : DWORD; Arguments : Pointer) : DWORD
12682: Function wFreeEnvironmentStrings( EnvBlock : PKOLChar) : BOOL
12683: Function wGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer) : UINT
12684: Function wGetBinaryType( lpApplicationName : PKOLChar; var lpBinaryType : DWORD) : BOOL
12685: Function wGetCommandLine : PKOLChar
12686: //Function wGetCompressedFileSize( lpFileName : PKOLChar; lpFileSizeHigh : PDWORD) : DWORD
12687: Function wGetComputerName( lpBuffer : PKOLChar; var nSize : DWORD) : BOOL
12688: Function wGetConsoleTitle( lpConsoleTitle : PKOLChar; nSize : DWORD) : DWORD
12689: //Function wGetCurrencyFormat( Locale : LCID; dwFlags : DWORD; lpValue : PKOLChar; lpFormat :
PCurrencyFmt; lpCurrencyStr : PKOLChar; cchCurrency : Integer) : Integer
12690: Function wGetCurrentDirectory( nBufferLength : DWORD; lpBuffer : PKOLChar) : DWORD
12691: //Function wGetDateFormat( Locale : LCID; dwFlags : DWORD; lpDate : PSystemTime; lpFormat : PKOLChar,
lpDateStr : PKOLChar; cchDate : Integer) : Integer
12692: //Function wGetDefaultCommConfig( lpszName:PKOLChar;var lpCC : TCommConfig;var lpdwSize:DWORD):BOOL
12693: Function wGetDiskFreeSpace( lpRootPathName : PKOLChar; var lpSectorsPerCluster, lpBytesPerSector,
lpNumberOfFreeClusters, lpTotalNumberOfClusters : DWORD) : BOOL
12694: //Function wGetDiskFreeSpaceEx( lpDirectoryName : PKOLChar; var lpFreeBytesAvailableToCaller,
lpTotalNumberOfBytes, lpTotalNumberOfFreeBytes : PLargeInteger) : BOOL
12695: Function wGetDriveType( lpRootPathName : PKOLChar) : UINT
12696: Function wGetEnvironmentStrings : PKOLChar
12697: Function wGetEnvironmentVariable( lpName : PKOLChar; lpBuffer : PKOLChar; nSize : DWORD) : DWORD;
12698: Function wGetFileAttributes( lpFileName : PKOLChar) : DWORD
12699: //Function
wGetFileAttributesEx(lpFileName:PKOLChar;fInfoLevelId:TGetFileExInfoLevs;lpFileInform:Pointer):BOOL;
12700: Function wGetFullPathName(lpFileName:PKOLChar;nBufferLeng:WORD;lpBuffer:PKOLChar;var
lpFilePart:PKOLChar):DWORD;
12701: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:LCTYPE;lpLCData:PKOLChar;cchData:Integer): Integer
12702: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar) : DWORD
12703: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD) : DWORD
12704: Function wGetModuleHandle( lpModuleName : PKOLChar) : HMODULE
12705: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
lpCollectDataTimeout : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD) : BOOL

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12706: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt;
12707: lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12708: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;
12709: Function wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12710: Function wGetPrivateProfileString( lpAppName , lpKeyName , lpDefault : PKOLChar;lpReturnedStr : PKOLChar ;
nSize:DWORD;lpFileName : PKOLChar) : DWORD
12711: Function wGetProfileInt( lpAppName , lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12712: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12713: Function wGetProfileString(lpAppName,lpKeyName,
lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD
12714: Function wGetShortPathName( lpszLongPath:PKOLChar;lpszShortPath: PKOLChar; cchBuffer : DWORD ) : DWORD
12715: //Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo)
12716: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer,var
12717: lpCharType):BOOL
12718: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12719: Function wGetTempFileName( lpPathName , lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar):UINT
12720: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12721: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo) : BOOL
12722: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
: DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength , lpFileSystemFlags : DWORD;
lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12723: Function wGetWindowsDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12724: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12725: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12726: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12727: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12728: Function
wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12729: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12730: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12731: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12732: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12733: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
TFNProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12734: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL;lpName:PKOLChar ) : THandle
12735: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName : PKOLChar ):THandle
12736: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12737: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ):THandle
12738: Function wOpenWaitableTimer(dwDesiredAccess:DWORD;bInheritHandle:BOOL;lpTimerName:PKOLChar):THandle
12739: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12740: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
12741: lpNumberOfEventsRead:DWORD):BOOL;
12742: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12743: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12744: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
12745: lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12746: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
12747: lpNumbOfEventsRead:DWORD):BOOL;
12748: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
: TCoord; var lpReadRegion : TSmallRect ) : BOOL
12749: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12750: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12751: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12752: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12753: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12754: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12755: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12756: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12757: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCDData : PKOLChar ) : BOOL
12758: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12759: //Function wUpdateResource(hUpdate:THandle;lpType,
12760: lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12761: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12762: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12763: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsWritten :
DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12764: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
var lpNumberOfEventsWritten : DWORD ) : BOOL
12765: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
12766: TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12767: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12768: DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12769: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12770: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL
12771: Function wlstrcat( lpString1, lpString2 : PKOLChar ) : PKOLChar
12772: Function wlstrcmp( lpString1, lpString2 : PKOLChar ) : Integer
12773: Function wlstrcmpi( lpString1, lpString2 : PKOLChar ) : Integer
12774: Function wlstrcpy( lpString1, lpString2 : PKOLChar ) : PKOLChar

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12773: Function wlstrcpyn( lpString1, lpString2 : PKOLChar; iMaxLength : Integer ) : PKOLChar
12774: Function wlstrlen( lpString : PKOLChar ) : Integer
12775: //Function wMultinetGetConnectionPerformance( lpNetResource : PNetResource; lpNetConnectInfoStruct : PNetConnectInfoStruct ) : DWORD
12776: //Function wWNetAddConnection2(var lpNetResource:TNetResource;lpPassw,
12777: lpUserName:PKOLChar;dwFlags:DWORD):DWORD;
12778: //Function wWNetAddConnection3( hwndOwner : HWND; var lpNetResource:TNetResource;lpPassword,
12779: lpUserName:PKOLChar; dwFlags : DWORD ) : DWORD
12780: Function wWNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PKOLChar ) : DWORD
12781: Function wWNetCancelConnection2( lpName : PKOLChar; dwFlags : DWORD; fForce : BOOL ) : DWORD
12782: Function wWNetCancelConnection( lpName : PKOLChar; fForce : BOOL ) : DWORD
12783: //Function wWNetConnectionDialog1( var lpConnDlgStruct : TConnectDlgStruct ) : DWORD
12784: //Function wWNetDisconnectDialog1( var lpConnDlgStruct : TDiscDlgStruct ) : DWORD
12785: Function wWNetGetConnection(lpLocalName:PKOLChar;lpRemoteName:PKOLChar; var lpnLength:DWORD):DWORD;
12786: Function wWNetGetLastError( var lpError : DWORD; lpErrorBuf : PKOLChar; nErrorBufSize : DWORD; lpNameBuf
12787: : PKOLChar; nNameBufSize : DWORD ) : DWORD
12788: //Function wWNetGetNetworkInformation(lpProvider:PKOLChar;var lpNetInfoStruct:TNetInfoStruct):DWORD;
12789: Function wWNetGetProviderName(dwNetType:DWORD;lpProviderName:PKOLChar;var lpBufferSize:DWORD):DWORD;
12790: //Function wWNetGetResourceParent(lpNetResource:PNetResource;lpBuffer:Pointer;var cbBuffer:DWORD):DWORD;
12791: //Function wWNetGetUniversalName(lpLocalPath:PKOLChar;dwInfoLevel:DWORD;lpBuffer:Ptr;var
12792: lpBufferSize:DWORD):DWORD;
12793: Function wWNet GetUser( lpName : PKOLChar; lpUserName : PKOLChar; var lpnLength : DWORD ) : DWORD
12794: // Function wWNetOpenEnum(dwScope,dwType,dwUsage:DWORD;lpNetResource:PNetRes;var lphEnum:THandle):DWORD;
12795: // Function wWNetSetConnection( lpName : PKOLChar; dwProperties : DWORD; pvValues : Pointer ) : DWORD
12796: //Function wWNetUseConnection(hwndOwner:HWND;var
12797: lpNetResource:TNetResource;lpUserID:PKOLChar;lpPassword:PKOLChar; dwFlags:DWORD;lpAccessName:PKOLChar;var
12798: lpBufferSize:DWORD;var lpResult:DWORD):DWORD
12799: Function wGetFileVersionInfo(lptstrFilename:PKOLChar;dwHandle,dwLen:DWORD;lpData:Pointer):BOOL;
12800: Function wGetFileVersionInfoSize( lptstrFilename : PKOLChar; var lpdwHandle : DWORD ) : DWORD
12801: Function wVerFindfile( uFlags : DWORD; szFileName, szWinDir, szAppDir, szCurDir : PKOLChar; var
12802: lpuCurDirLen : UINT; szDestDir : PKOLChar; var lpuDestDirLen : UINT ) : DWORD
12803: Function wVerInstallFile( uFlags : DWORD; szSrcFileName, szDestFileName, szSrcDir, szDestDir, szCurDir,
12804: szTmpFile : PKOLChar; var lpuTmpFileLen : UINT ) : DWORD
12805: //Function wVerQueryValue(pBlock:Pointer;lpSubBlock:PKOLChar;var lplpBuffer:Ptr;var puLen:UINT):BOOL;
12806: //Function wGetPrivateProfileStruct(lpszSection,
12807: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12808: //Function wWritePrivateProfileStruct(lpszSection,
12809: lpszKey:PKOLChar;lpStruct:Ptr;uSizeStruct:UINT;szFile:PKOLChar):BOOL;
12810: Function wAddFontResource( FileName : PKOLChar ) : Integer
12811: //Function wAddFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : Integer
12812: Function wCopyEnhMetaFile( p1 : HENHMETAFILE; p2 : PKOLChar ) : HENHMETAFILE
12813: Function wCopyMetaFile( p1 : HMETAFILE; p2 : PKOLChar ) : HMETAFILE
12814: //Function wCreateColorSpace( var ColorSpace : TLogColorSpace ) : HCOLORSPACE
12815: //Function wCreateDC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpDvmInit : PDeviceMode ) : HDC
12816: // Function wCreateEnhMetaFile( DC : HDC; FileName : PKOLChar; Rect : PRect; Desc : PKOLChar ) : HDC
12817: Function wCreateFont( nHeight, nWidth, nEscapement, nOrientation, fnWeight : Integer; fdwItalic,
12818: fdwUnderline, fdwStrikeOut, fdwCharSet, fdwOutputPrec, fdwClipPrecision, fdwQualy,
12819: fdwPitchAndFamily:DWORD;lpszFace:PKOLChar):HFONT;
12820: Function wCreateFontIndirect( const p1 : TLogFont ) : HFONT
12821: //Function wCreateFontIndirectEx( const p1 : PEnumLogFontExDV ) : HFONT
12822: // Function wCreateIC( lpszDriver, lpszDevice, lpszOutput : PKOLChar; lpDvmInit : PDeviceMode ) : HDC
12823: Function wCreateMetaFile( p1 : PKOLChar ) : HDC
12824: Function wCreateScalableFontResource( p1 : DWORD; p2, p3, p4 : PKOLChar ) : BOOL
12825: //Function wDeviceCapabilities(pDriverNa,pDeviceNam,
12826: pPort:PKOLChar;iIdx:Int;pOut:PKOLChar;DevMod:PDeviceMode):Int;
12827: // Function wEnumFontFamilies( DC : HDC; p2 : PKOLChar; p3 : TFontEnumProc; p4 : LPARAM ) : BOOL
12828: //Function wEnumFontFamiliesEx(DC:HDC;var p2:TLogFont;p3:TFontEnumProc;p4:LPARAM;p5:DWORD):BOOL;
12829: //Function wEnumFonts(DC:HDC;lpszFace:PKOLChar;fntermprc:TFontEnumProc;lpszData:PKOLChar):Integer;
12830: //Function wEnumICMPProfiles( DC : HDC; ICMPProc : TFNICKMEnumProc; p3 : LPARAM ) : Integer
12831: //Function wExtTextOut(DC:HDC;X,
12832: Y:Int;Options:Longint;Rect:PRect;Str:PKOLChar;Count:Longint;Dx:PInteger:BOOL
12833: //Function wGetCharABCWidths( DC : HDC; FirstChar, LastChar : UINT; const ABCStructs ) : BOOL
12834: //Function wGetCharABCWidthsFloat( DC : HDC; FirstChar, LastChar : UINT; const ABCFloatSturcts ) : BOOL
12835: //Function wGetCharWidth32( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12836: //Function wGetCharWidth( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12837: // Function wGetCharWidthFloat( DC : HDC; FirstChar, LastChar : UINT; const Widths ) : BOOL
12838: // Function wGetCharacterPlacement(DC:HDC;p2:PKOLChar;p3,p4:BOOL;var p5:TGCPResults;p6:DWORD):DWORD
12839: Function wGetEnhMetaFile( p1 : PKOLChar ) : HENHMETAFILE
12840: Function wGetEnhMetaFileDescription( p1 : HENHMETAFILE; p2 : UINT; p3 : PKOLChar ) : UINT
12841: // Function wGetGlyphIndices( DC : HDC; p2 : PKOLChar; p3 : Integer; p4 : PWORD; p5 : DWORD ) : DWORD
12842: // Function wGetGlyphOutline( DC : HDC; uChar, uFormat:UINT;const lpgm:TGlyphMetrics; cbBuffer : DWORD,
12843: lpvBuffer : Pointer; const lpmat2 : TMat2 ) : DWORD
12844: Function wGetICMPProfile( DC : HDC; var Size : DWORD; Name : PKOLChar ) : BOOL
12845: // Function wGetLogColorSpace( p1 : HCOLORSPACE; var ColorSpace : TLogColorSpace; Size : DWORD ) : BOOL
12846: Function wGetMetaFile( p1 : PKOLChar ) : HMETAFILE
12847: // Function wGetObject( p1 : HGDIOBJ; p2 : Integer; p3 : Pointer ) : Integer
12848: //Function wGetOutlineTextMetrics( DC : HDC; p2 : UINT; OTMetricStructs : Pointer ) : UINT
12849: //Function wGetTextExtentExPoint(DC:HDC;p2:PKOLChar; p3,p4:Integer;p5,p6:PInteger;var p7:TSize):BOOL
12850: Function wGetTextExtentPoint32( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12851: Function wGetTextExtentPoint( DC : HDC; Str : PKOLChar; Count : Integer; var Size : TSize ) : BOOL
12852: Function wGetTextFace( DC : HDC; Count : Integer; Buffer : PKOLChar ) : Integer
12853: //Function wGetTextMetrics( DC : HDC; var TM : TTTextMetric ) : BOOL
12854: Function wPolyTextOut( DC : HDC; const PolyTextArray, Strings : Integer ) : BOOL
12855: Function wRemoveFontResource( FileName : PKOLChar ) : BOOL
12856: //Function wRemoveFontResourceEx( p1 : PKOLChar; p2 : DWORD; p3 : PDesignVector ) : BOOL
12857: //Function wResetDC( DC : HDC; const InitData : TDeviceMode ) : HDC
12858: Function wSetICMPProfile( DC : HDC; Name : PKOLChar ) : BOOL
12859: //Function wStartDoc( DC : HDC; const p2 : TDocInfo ) : Integer

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12846: Function wTextOut( DC : HDC; X, Y : Integer; Str : PKOLChar; Count : Integer) : BOOL
12847: Function wUpdateICMRegKey( p1 : DWORD; p2, p3 : PKOLChar; p4 : UINT) : BOOL
12848: Function wwglUseFontBitmaps( DC : HDC; p2, p3, p4 : DWORD) : BOOL
12849: //Function wwglUseFontOutlines(p1:HDC; p2,p3,p4:DWORD;p5,p6:Single;p7:Int;p8:PGlyphMetricsFloat):BOOL
12850: Function wAppendMenu( hMenu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar) : BOOL
12851: Function wCallMsgFilter( var lpMsg : TMsg; nCode : Integer) : BOOL
12852: //Function
12853: wCallWindowProc(lpPrevWndFunc:TFNWndProc;hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT
12854: //Function wChangeDisplaySettings( var lpDevMode : TDeviceMode; dwFlags : DWORD) : Longint
12855: // Function wChangeDisplaySettingsEx( lpszDeviceName:PKOLChar;var lpDevMode: TDeviceMode; wnd : HWND;
12856: dwFlags : DWORD; lParam : Pointer) : Longint
12857: Function wChangeMenu(hMenu:HMENU;cmd:UINT;lpszNewItem:PKOLChar;cmdInsert:UINT;flags:UINT):BOOL
12858: Function wCharLower( lpsz : PKOLChar) : PKOLChar
12859: Function wCharLowerBuff( lpsz : PKOLChar; cchLength : DWORD) : DWORD
12860: Function wCharNext( lpsz : PKOLChar) : PKOLChar
12861: // Function wCharNextEx( CodePage : Word; lpCurrentChar : LPCSTR; dwFlags : DWORD) : LPSTR
12862: Function wCharPrev( lpszStart : PKOLChar; lpszCurrent : PKOLChar) : PKOLChar
12863: // Function wCharPrevEx( CodePage : Word; lpStart, lpCurrentChar : LPCSTR; dwFlags : DWORD) : LPSTR
12864: Function wCharToOem( lpszSrc : PKOLChar; lpszDst : PKOLChar) : BOOL
12865: Function wCharUpperBuff( lpsz : PKOLChar; cchLength : DWORD) : DWORD
12866: Function wCopyAcceleratorTable( hAccelSrc : HACCEL; var lpAccelDst, cAccelEntries : Integer) : Integer
12867: Function wCreateAcceleratorTable( var Accel, Count : Integer) : HACCEL
12868: //Function wCreateDesktop(lpszDesktop,
12869: lpszDevice:PKOLChar;pDevMode:DDeviceMode;dwFlags:DWORD;dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HDESK
12870: //Function wCreateDialogIndirectParam( hInstance : HINST; const lpTemplate : TDlgTemplate; hWndParent :
12871: HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM) : HWND
12872: //Function wCreateDialogParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND;
12873: lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM) : HWND
12874: Function wCreateMDIWindow( lpClassName, lpWindowName:PKOLChar;dwStyle: DWORD; X,Y,nWidth,nHeight:Integer;
12875: hWndParent : HWND; hInstance : HINST; lParam : LPARAM) : HWND
12876: //Function wCreateWindowEx(dwExStyle:DWORD;lpClassName:PKOLChar;lpWindowName:PKOLChar;dwStyle WORD;X,Y,
12877: nWidth, nHeight:Int WndParent:HWND;hMenu:HMENU;hInstance:HINST;lpParam:Pointer):HWND
12878: //Function wCreateWindowStation(lpinsta:PKOLChar;dwReserv,
12879: dwDesiredAccess:DWORD;lpsa:PSecurityAttribs):HWINSTA;
12880: Function wDefDlgProc( hDlg : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
12881: Function wDefFrameProc(hWnd,hWndMDIClient:HWND;uMsg:UINT;wParam:WPARAM;lParam:LPARAM):LRESULT;
12882: Function wDefMDIChildProc( hWnd : HWND; uMsg : UINT; wParam : WPARAM; lParam: LPARAM):LRESULT;
12883: Function wDefWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam: LPARAM) : LRESULT
12884: //Function wDialogBoxIndirectParam( hInstance : HINST; const lpDialogTemplate : TDlgTemplate; hWndParent
12885: : HWND; lpDialogFunc : TFNDlgProc; dwInitParam : LPARAM) : Integer
12886: //Function wDialogBoxParam( hInstance : HINST; lpTemplateName : PKOLChar; hWndParent : HWND; lpDialogFunc
12887: : TFNDlgProc; dwInitParam : LPARAM) : Integer
12888: Function wDispatchMessage( const lpMsg : TMsg) : Longint
12889: Function wDlgDirList(hDlg:HWND;lpPathSpec:PKOLChar;nIDListBox,
12890: nIDStaticPath:Intger;ufileType:UINT):Integer;
12891: Function wDlgDirListComboBox(hDlg:HWND;lpPathSpec:PKOLChar;nIDComboBox,
12892: nIDStaticPath:Int;uFiletype:UINT):Int;
12893: Function wDlgDirSelectComboBoxEx( hDlg : HWND; lpString:PKOLChar;nCount,nIDComboBox:Integer): BOOL
12894: Function wDlgDirSelectEx( hDlg : HWND; lpString : PKOLChar; nCount, nIDListBox : Integer) : BOOL
12895: //Function wDrawState(dc:HDC;Brush:HBRUSH,CBFunc:TFNDrawStateProc;lData:LPARA;wDat:WPARA;x,y,cx,
12896: cy:Int;Flags:UINT):BOOL;
12897: Function wDrawText(hdc:HDC;lpString:PKOLChar;nCount:Integer;var lpRect:TRect;uFormat:UINT):Integer;
12898: Function wFindWindow( lpClassName, lpWindowName : PKOLChar) : HWND
12899: Function wFindWindowEx( Parent, Child : HWND; ClassName, WindowName : PKOLChar) : HWND
12900: //Function wGetAltTabInfo(hwnd:HWND;iItem:Int;var
12901: pati:TAltTabInfo;pszItemText:PKOLChar;cchItemText:UINT):BOOL;
12902: //Function wGetClassInfo( hInstance : HINST; lpClassName : PKOLChar; var lpWndClass : TWndClass) : BOOL
12903: //Function wGetClassInfoEx( Instance : HINST; Classname : PKOLChar; var WndClass : TWndClassEx) : BOOL
12904: Function wGetClassLong( hWnd : HWND; nIndex : Integer) : DWORD
12905: Function wGetClipboardFormatName( format : UINT; lpszFormatName:PKOLChar;cchMaxCount:Integer):Integer;
12906: Function wGetDlgItemText( hDlg: HWND;nIDDlgItem:Integer;lpString:PKOLChar;nMaxCount:Integer):UINT
12907: Function wGetKeyNameText( lParam : Longint; lpString : PKOLChar; nSize : Integer) : Integer
12908: Function wGetKeyboardLayoutName( pwszKLID : PKOLChar) : BOOL
12909: //Function wGetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; var p4 : TMenuItemInfo) : BOOL
12910: Function wGetMenuString(hMenu:HMENU;uIDItem:UINT;lpString:PKOLChar;nMaxCount:Integer;uFlag:UINT):Integer;
12911: Function wGetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT) : BOOL
12912: Function wGetProp( hWnd : HWND; lpString : PKOLChar) : THandle
12913: //Function wGetTabbedTextExtent( hdc : HDC; lpString : PKOLChar; nCount, nTabPositions : Integer; var
12914: lpnTabStopPositions ) : DWORD
12915: //Function wGetUserObjectInform(hObj:THandle;nIndex:Int;pvInfo:Ptr;nLength:DWORD;var
12916: lpLengthNeed:DWORD):BOOL;
12917: Function wGetWindowLong( hWnd : HWND; nIndex : Integer) : Longint
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:LPARA;nCnt,X,Y,nWidt,
12922: nHeight:Int):BOOL;
12923: Function wInsertMenu( hMenu : HMENU; uPosition, uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar) : BOOL
12924: //Function wInsertMenuItem( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo) : BOOL
12925: Function wIsCharAlpha( ch : KOLChar) : BOOL
12926: Function wIsCharAlphaNumeric( ch : KOLChar) : BOOL
12927: Function wIsCharLower( ch : KOLChar) : BOOL
12928: Function wIsCharUpper( ch : KOLChar) : BOOL
12929: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg) : BOOL
12930: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar) : HACCEL
12931: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar) : HBITMAP

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12918: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12919: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12920: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12921: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT) : THandle
12922: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12923: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12924: //Function wLoadMenuIndirect( lpMenuTemplate : Pointer ) : HMENU
12925: Function wLoadString(hInst:HINST;uID: UINT; lpBuffer :PKOLChar;nBufferMax:Integer):Integer
12926: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12927: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhk1 : HKL ) : UINT
12928: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12929: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word) : Integer
12930: //Function wMessageBoxBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12931: Function wModifyMenu( hMnu : HMENU; uFlags, uIDNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12932: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12933: //Function wOemToAnsiBuf( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12934: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12935: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12936: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD):HDESK
12937: Function wOpenWindowStation( lpszWinSta : PKOLChar; finherit : BOOL; dwDesiredAccess : DWORD ) : HWINSTA
12938: Function wPeekMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax, wRemoveMsg:UINT ) : BOOL
12939: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12940: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM) : BOOL
12941: Function wRealGetWindowClass( hWnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
12942: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12943: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12944: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
12945: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12946: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
12947: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THANDLE
12948: Function wSendDlgItemMessage(hDlg:HWND;nIDDlItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12949: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12950: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL
12951: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
lpdwResult:DWORD) : LRESULT
12952: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12953: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12954: Function wSetDlgItemText( hDlg:HWND;nIDDlItem:Integer;lpString : PKOLChar ) : BOOL
12955: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12956: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THANDLE ) : BOOL
12957: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12958: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
12959: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12960: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
12961: //Function wSetWindowsHookEx(idHook:Integer;lpfn:TFNHookProc;hmod:HINST;dwThreadId:DWORD):HHOOK;
12962: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni : UINT):BOOL
12963: Function wTabbedTextOut(hdc:HDC;X,Y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
lpnTabStopPositions,nTabOrigin:Int):Longint;
12964: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12965: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12966: Function wVKeyScan( ch : KOLChar ) : SHORT
12967: Function wVKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
12968: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
12969: Function wvprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12970: Function wvvsprintf( Output : PKOLChar; Format : PKOLchar; arglist : va_list ) : Integer
12971:
12972: //TestDrive!
12973: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL
12974: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString( 'ConvertSidToStringSidA'
12975: Function GetDomainUserSidS(const domainName:String;const userName:String; var foundDomain:String):String
12976: Function GetLocalUserSidStr( const UserName : string ) : string
12977: Function getPid4User( const domain : string; const user : string; var pid : dword ) : boolean
12978: Function Impersonate2User( const domain : string; const user : string ) : boolean
12979: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12980: Function KillProcessbyname( const exename : string; var found : integer ) : integer
12981: Function getWinProcessList : TStringList
12982: end;
12983:
12984: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12985: begin
12986:   'AfMaxSyncSlots','LongInt'( 64 );
12987:   'AfSynchronizeTimeout','LongInt'( 2000 );
12988:   TafSyncSlotID', 'DWORD
12989:   TafSyncStatistics', 'record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end';
12990:   TafSafeSyncEvent', 'Procedure ( ID : TafSyncSlotID )
12991:   TafSafeDirectSyncEvent', 'Procedure
12992:   Function AfNewSyncSlot( const AEvent : TafSafeSyncEvent ) : TafSyncSlotID
12993:   Function AfReleaseSyncSlot( const ID : TafSyncSlotID ) : Boolean
12994:   Function AfEnableSyncSlot( const ID : TafSyncSlotID; Enable : Boolean ) : Boolean
12995:   Function AfValidateSyncSlot( const ID : TafSyncSlotID ) : Boolean
12996:   Function AfSyncEvent( const ID : TafSyncSlotID; Timeout : DWORD ) : Boolean
12997:   Function AfDirectSyncEvent( Event : TafSafeDirectSyncEvent; Timeout : DWORD ) : Boolean
12998:   Function AfIsSyncMethod : Boolean
12999:   Function AfSyncWnd : HWnd
13000:   Function AfSyncStatistics : TafSyncStatistics
13001:   Procedure AfClearSyncStatistics
13002: end;
13003:

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13004: procedure SIRegister_AfComPortCore(CL: TPSCompiler);
13005: begin
13006:   'fBinary', 'LongWord')($00000001);
13007:   'fParity', 'LongWord')($00000002);
13008:   'fOutxCtsFlow', 'LongWord').SetUInt($00000004);
13009:   'fOutxDsrFlow', 'LongWord')($00000008);
13010:   'fDtrControl', 'LongWord')($00000030);
13011:   'fDtrControlDisable', 'LongWord')($00000000);
13012:   'fDtrControlEnable', 'LongWord')($00000010);
13013:   'fDtrControlHandshake', 'LongWord')($00000020);
13014:   'fDsSensitivity', 'LongWord')($00000040);
13015:   'fTxCContinueOnXoff', 'LongWord')($00000080);
13016:   'fOutX', 'LongWord')($00000100);
13017:   'fInX', 'LongWord')($00000200);
13018:   'fErrorChar', 'LongWord')($00000400);
13019:   'fNull', 'LongWord')($00000800);
13020:   'fRtsControl', 'LongWord')($00003000);
13021:   'fRtsControlDisable', 'LongWord')($00000000);
13022:   'fRtsControlEnable', 'LongWord')($00001000);
13023:   'fRtsControlHandshake', 'LongWord')($00002000);
13024:   'fRtsControlToggle', 'LongWord')($00003000);
13025:   'fAbortOnError', 'LongWord')($00004000);
13026:   'fDummy2', 'LongWord')($FFFF8000);
13027:   TAFCoreEvent', '(ceOutFree, ceLineEvent, ceNeedReadData, ceException)
13028:   FindClass('TOBJECT'), 'EAFComPortCoreError
13029:   FindClass('TOBJECT'), 'TAFComPortCore
13030:   TAFComPortCoreEvent', 'Procedure ( Sender : TAFComPortCore; Event'
13031:     +'tKind : TAFCoreEvent; Data : DWORD)
13032:   SIRegister_TAFComPortCoreThread(CL);
13033:   SIRegister_TAFComPortEventThread(CL);
13034:   SIRegister_TAFComPortWriteThread(CL);
13035:   SIRegister_TAFComPortCore(CL);
13036:   Function FormatDeviceName( PortNumber : Integer ) : string
13037: end;
13038:
13039: procedure SIRegister_ApplicationFileIO(CL: TPSCompiler);
13040: begin
13041:   TAFIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13042:   TAFIOFileExistsEvent', 'Function ( const fileName : String ) : Boolean
13043:   SIRegister_TApplicationFileIO(CL);
13044:   TDataFileCapability', '(dfcRead, dfcWrite)
13045:   TDataFileCapabilities', 'set of TDataFileCapability
13046:   SIRegister_TDataFile(CL);
13047:   //TDataFileClass', 'class of TDataFile
13048:   Function ApplicationFileIODefined : Boolean
13049:   Function CreateFileStream(const fileName: String; mode: WordfmShareDenyNone):TStream
13050:   Function FileStreamExists(const fileName: String) : Boolean
13051:   //Procedure Register
13052: end;
13053:
13054: procedure SIRegister_ALFBXLib(CL: TPSCompiler);
13055: begin
13056:   TALFBXFieldType', '(uftUnknown, uftNumeric, uftChar, uftVarchar'
13057:     +', uftCstring, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13058:     +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13059:   TALFBXScale', 'Integer
13060:   FindClass('TOBJECT'), 'EALFBXConvertError
13061:   SIRegister_EALFBXError(CL);
13062:   SIRegister_EALFBXException(CL);
13063:   FindClass('TOBJECT'), 'EALFBXGFixError
13064:   FindClass('TOBJECT'), 'EALFBXDSQLError
13065:   FindClass('TOBJECT'), 'EALFBXDynError
13066:   FindClass('TOBJECT'), 'EALFBXBakError
13067:   FindClass('TOBJECT'), 'EALFBXGSecError
13068:   FindClass('TOBJECT'), 'EALFBXLicenseError
13069:   FindClass('TOBJECT'), 'EALFBXGStatError
13070:   //EALFBXExceptionClass', 'class of EALFBXError
13071:   TALFBXCharacterSet', '(csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13072:     +'37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13073:     +'csEUCL_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13074:     +'TET, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13075:     +'csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13076:     +'sDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13077:     +'4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13078:     +'8859_13, csKOI8R, csWIN1258, csTIS620, csGBK, csCP943C )
13079:   TALFBXTransParam', '(tpConsistency, tpConcurrency, tpShared, tp'
13080:     +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13081:     +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13082:     +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13083:   TALFBXTransParams', 'set of TALFBXTransParam
13084:   Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13085:   Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13086:   Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13087:   'cALFBXMaxParamLength', 'LongInt'( 125 );
13088:   TALFBXParamsFlag', '(pfNotInitialized, pfNotNullable )
13089:   TALFBXParamsFlags', 'set of TALFBXParamsFlag
13090:   //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13091:   //PALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13092:   TALFBXStatementType', '(stSelect, stInsert, stUpdate, stDelete, '

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13093: +' stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stComm'
13094: +'t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13095: SIRegister_TALFBXSQLDA(CL);
13096: //PALFBXPtrArray', '^PALFBXPtrArray // will not work
13097: SIRegister_TALFBXPoolStream(CL);
13098: //PALFBXBlobData', '^PALFBXBlobData // will not work
13099: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13100: //PALFBXArrayDesc', 'TALFBXArrayDesc // will not work
13101: //TALFBXArrayDesc', 'TISCArryDesc
13102: //TALFBXBlobDesc
13103: //PALFBXArrayInfo', '^PALFBXArrayInfo // will not work
13104: //PALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13105: SIRegister_TALFBXSQLResult(CL);
13106: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13107: SIRegister_TALFBXSQLParams(CL);
13108: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13109: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13110: +'atementType : TALFBXStatementType; end
13111: FindClass('TOBJECT'), 'TALFBXLibrary
13112: //PALFBXStatusVector', '^PALFBXStatusVector // will not work
13113: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13114: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13115: +' Excep : EALFBXExceptionClass)
13116: SIRegister_TALFBXLibrary(CL);
13117: 'cALFBXDateOffset', 'LongInt'( 15018 );
13118: 'cALFBXTimeCoeff', 'LongInt'( 864000000 );
13119: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double);
13120: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out TimeStamp : TTimeStamp);
13121: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13122: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word )
13123: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13124: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp );
13125: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp );
13126: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp );
13127: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13128: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord) : Cardinal
13129: TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prLgno )
13130: TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13131: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13132: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13133: end;
13134:
13135: procedure SIRegister_ALFBXClient(CL: TPSPPascalCompiler);
13136: begin
13137:   TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13138:   TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13139:   TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13140:   +'ALFBXClientSQLParams; RowTag: AnsiString; ViewTag: AnsiString; Skip : in'
13141:   +'teger; First : Integer; CacheThreshold : Integer; end
13142:   TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13143:   TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13144:   TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13145:   TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13146:   +'_writes : int64; page_fetches : int64; page_marks : int64; end
13147:   SIRegister_TALFBXClient(CL);
13148:   SIRegister_TALFBXConnectionStatementPoolBinTreeNode(CL);
13149:   SIRegister_TALFBXConnectionStatementPoolBinTree(CL);
13150:   SIRegister_TALFBXConnectionWithStmtPoolContainer(CL);
13151:   SIRegister_TALFBXConnectionWithoutStmtPoolContainer(CL);
13152:   SIRegister_TALFBXReadTransactionPoolContainer(CL);
13153:   SIRegister_TALFBXReadStatementPoolContainer(CL);
13154:   SIRegister_TALFBXStringKeyPoolBinTreeNode(CL);
13155:   SIRegister_TALFBXConnectionPoolClient(CL);
13156:   SIRegister_TALFBXEventThread(CL);
13157:   Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13158: end;
13159:
13160: procedure SIRegister_ovcBidi(CL: TPSPPascalCompiler);
13161: begin
13162:   _OSVERSIONINFOA = record
13163:     dwOSVersionInfoSize: DWORD;
13164:     dwMajorVersion: DWORD;
13165:     dwMinorVersion: DWORD;
13166:     dwBuildNumber: DWORD;
13167:     dwPlatformId: DWORD;
13168:     szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13169:   end;
13170:   TOSVersionInfoA', '_OSVERSIONINFOA
13171:   TOSVersionInfo', 'TOSVersionInfoA
13172:   'WS_EX_RIGHT', 'LongWord')($00001000);
13173:   'WS_EX_LEFT', 'LongWord')($00000000);
13174:   'WS_EX_RTLREADING', 'LongWord')($00002000);
13175:   'WS_EX_LTRREADING', 'LongWord')($00000000);
13176:   'WS_EX_LEFTSCROLLBAR', 'LongWord')($00004000);
13177:   'WS_EX_RIGHTSCROLLBAR', 'LongWord')($00000000);
13178:   Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13179:   'LAYOUTRTL', 'LongWord')($00000001);
13180:   'LAYOUTBTT', 'LongWord')($00000002);
13181:   'LAYOUTVBH', 'LongWord')($00000004);

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13182:   'LAYOUT_BITMAPORIENTATIONPRESERVED','LongWord')( $00000008);
13183:   'NOMIRRORBITMAP','LongWord')( DWORD ( $80000000 ));
13184:   Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13185:   Function GetLayout( dc : hdc ) : DWORD
13186:   Function IsBidi : Boolean
13187:   Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL
13188:   Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13189:   Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13190:   Function GetPriorityClass( hProcess : THandle ) : DWORD
13191:   Function OpenClipboard( hWndNewOwner : HWND ) : BOOL
13192:   Function CloseClipboard : BOOL
13193:   Function GetClipboardSequenceNumber : DWORD
13194:   Function GetClipboardOwner : HWND
13195:   Function SetClipboardViewer( hWndNewViewer : HWND ) : HWND
13196:   Function GetClipboardViewer : HWND
13197:   Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND ) : BOOL
13198:   Function SetClipboardData( uFormat : UINT; hMem : THandle ) : THandle
13199:   Function GetClipboardData( uFormat : UINT ) : THandle
13200:   Function RegisterClipboardFormat( lpszFormat : PChar ) : UINT
13201:   Function CountClipboardFormats : Integer
13202:   Function EnumClipboardFormats( format : UINT ) : UINT
13203:   Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13204:   Function EmptyClipboard : BOOL
13205:   Function IsClipboardFormatAvailable( format : UINT ) : BOOL
13206:   Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer ) : Integer
13207:   Function GetOpenClipboardWindow : HWND
13208:   Function EndDialog( hDlg : HWND; nResult : Integer ) : BOOL
13209:   Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer ) : HWND
13210:   Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UInt; bSigned: BOOL): BOOL
13211:   Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UInt
13212:   Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar ) : BOOL
13213:   Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UInt ) : BOOL
13214:   Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer ) : BOOL
13215:   Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer ) : UInt
13216:   Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13217: end;
13218:
13219: procedure SIRegister_DXPUtils(CL: TPSPascalCompiler);
13220: begin
13221:   Function glExecuteAndWait( cmdLine:string;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool ):Int;
13222:   Function GetTemporaryFilesPath : String
13223:   Function GetTemporaryFileName : String
13224:   Function FindfileInPaths( const fileName, paths : String ) : String
13225:   Function PathsToString( const paths : TStrings ) : String
13226:   Procedure StringToPaths( const pathsString : String; paths : TStrings )
13227: //Function MacroExpandPath( const aPath : String ) : String
13228: end;
13229:
13230: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13231: begin
13232:   SIRegister_TALMultiPartBaseContent(CL);
13233:   SIRegister_TALMultiPartBaseContents(CL);
13234:   SIRegister_TALMultiPartBaseStream(CL);
13235:   SIRegister_TALMultiPartBaseEncoder(CL);
13236:   SIRegister_TALMultiPartBaseDecoder(CL);
13237:   Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString ) : AnsiString
13238:   Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13239:   Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13240: end;
13241:
13242: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13243: begin
13244:   TdriveSize', 'record FreeS : Int64; TotalS : Int64; end
13245:   TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13246:   +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13247:   Function aAllocPadedMem( Size : Cardinal ) : TObject
13248:   Procedure aFreePadedMem( var P : TObject );
13249:   Procedure aFreePadedMem( var P : PChar );
13250:   Function aCheckPadedMem( P : Pointer ) : Byte
13251:   Function aGetPadMemSize( P : Pointer ) : Cardinal
13252:   Function aAllocMem( Size : Cardinal ) : Pointer
13253:   Function aStrLen( const Str : PChar ) : Cardinal
13254:   Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal ) : PChar
13255:   Function aStrECopy( Dest : PChar; const Source : PChar ) : PChar
13256:   Function aStrCopy( Dest : PChar; const Source : PChar ) : PChar
13257:   Function aStrEnd( const Str : PChar ) : PChar
13258:   Function aStrScan( const Str : PChar; aChr : Char ) : PChar
13259:   Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal ) : PChar
13260:   Function aPCharLength( const Str : PChar ) : Cardinal
13261:   Function aPCharUpper( Str : PChar ) : PChar
13262:   Function aPCharLower( Str : PChar ) : PChar
13263:   Function aStrCat( Dest : PChar; const Source : PChar ) : PChar
13264:   Function aLastDelimiter( const Delimiters, S : String ) : Integer
13265:   Function aCopyTail( const S : String; Len : Integer ) : String
13266:   Function aInt2Thos( I : Int64 ) : String
13267:   Function aUpperCase( const S : String ) : String
13268:   Function aLowerCase( const S : string ) : String
13269:   Function aCompareText( const S1, S2 : string ) : Integer
13270:   Function aSameText( const S1, S2 : string ) : Boolean

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13271: Function aInt2Str( Value : Int64 ) : String
13272: Function aStr2Int( const Value : String ) : Int64
13273: Function aStr2IntDef( const S : string; Default : Int64 ) : Int64
13274: Function aGetFileExt( const FileName : String ) : String
13275: Function aGetFilePath( const FileName : String ) : String
13276: Function aGetFileName( const FileName : String ) : String
13277: Function aChangeExt( const FileName, Extension : String ) : String
13278: Function aAdjustLineBreaks( const S : string ) : string
13279: Function aGetWindowStr( WinHandle : HWND ) : String
13280: Function aDiskSpace( Drive : String ) : TdriveSize
13281: Function aFileExists( FileName : String ) : Boolean
13282: Function aFileSize( FileName : String ) : Int64
13283: Function aDirectoryExists( const Name : string ) : Boolean
13284: Function aSysErrorMessage( ErrorCode : Integer ) : string
13285: Function aShortPathName( const LongName : string ) : string
13286: Function aGetWindowVer : TWinVerRec
13287: procedure InitDriveSpacePtr;
13288: end;
13289:
13290: procedure SIRegister_MakeApp(CL: TPSPascalCompiler);
13291: begin
13292:   aZero', 'LongInt'( 0 );
13293:   'makeappDEF', 'LongInt'( - 1 );
13294:   'CS_VREDRAW', 'LongInt'( DWORD( 1 ) );
13295:   'CS_HREDRAW', 'LongInt'( DWORD( 2 ) );
13296:   'CS_KEYCWTWINDOW', 'LongInt'( 4 );
13297:   'CS_DBLCLKS', 'LongInt'( 8 );
13298:   'CS_OWNDC', 'LongWord' )( $20 );
13299:   'CS_CLASSDC', 'LongWord' )( $40 );
13300:   'CS_PARENTDC', 'LongWord' )( $80 );
13301:   'CS_NOKEYCWT', 'LongWord' )( $100 );
13302:   'CS_NOCLOSE', 'LongWord' )( $200 );
13303:   'CS_SAVEBITS', 'LongWord' )( $800 );
13304:   'CS_BYTEALIGNCLIENT', 'LongWord' )( $1000 );
13305:   'CS_BYTEALIGNWINDOW', 'LongWord' )( $2000 );
13306:   'CS_GLOBALCLASS', 'LongWord' )( $4000 );
13307:   'CS_IME', 'LongWord' )( $10000 );
13308:   'CS_DROPSHADOW', 'LongWord' )( $20000 );
13309:   //TPanelFunc', 'TPanelFunc // will not work
13310:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13311:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13312:   TFontLooks', 'set of TFontLook
13313:   TMessagefunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer
13314:   Function SetWinClass( const ClassName:String; pMessFunc: Tmessagefunc; wcStyle : Integer): Word
13315:   Function SetWinClassO( const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13316:   Function SetWinClass( const ClassName : String; pMessFunc : TObject; wcStyle : Integer ) : Word
13317:   Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13318:   Procedure RunMsgLoop( Show : Boolean )
13319:   Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13320:   Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar;hParent,
ID_Number:Cardinal;hFont:Int):Int;
13321:   Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13322:   Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13323:   Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13324:   Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13325:   Function id4menu( a, b : Byte; c : Byte; d : Byte ) : Cardinal
13326:   Procedure DoInitMakeApp //set first to init formclasscontrol!
13327: end;
13328:
13329: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13330: begin
13331:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13332:     +'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13333:   TScreenSaverOptions', 'set of TScreenSaverOption
13334:   'cDefaultScreenSaverOptions', 'LongInt' ).Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection)
13335:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13336:   SIRegister_TScreenSaver(CL);
13337:   //Procedure Register
13338:   Procedure SetScreenSaverPassword
13339: end;
13340:
13341: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13342: begin
13343:   FindClass('TOBJECT'), 'TXCollection
13344:   SIRegister_EFilerException(CL);
13345:   SIRegister_TXCollectionItem(CL);
13346:   //TXCollectionItemClass', 'class of TXCollectionItem
13347:   SIRegister_TXCollection(CL);
13348:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13349:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13350:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )
13351:   Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass )
13352:   Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13353:   Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13354: end;
13355:
13356: procedure SIRegister_XOpenGL(CL: TPSPascalCompiler);

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13357: begin
13358:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary);
13359:   Procedure xglMapTexCoordToNull
13360:   Procedure xglMapTexCoordToMain
13361:   Procedure xglMapTexCoordToSecond
13362:   Procedure xglMapTexCoordToDual
13363:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13364:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13365:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13366:   Procedure xglBeginUpdate
13367:   Procedure xglEndUpdate
13368:   Procedure xglPushState
13369:   Procedure xglPopState
13370:   Procedure xglForbidSecondTextureUnit
13371:   Procedure xglAllowSecondTextureUnit
13372:   Function xglGetBitWiseMapping : Cardinal
13373: end;
13374:
13375: procedure SIRegister_VectorLists(CL: TPSPascalCompiler);
13376: begin
13377:   TBaseListOption', '(
13378:     bloExternalMemory, bloSetCountResetsMemory
13379:   TBaseListOptions', 'set of TBaseListOption
13380:   SIRegister_TBaseList(CL);
13381:   SIRegister_TAffineVectorList(CL);
13382:   SIRegister_TVectorList(CL);
13383:   SIRegister_TTexPointList(CL);
13384:   SIRegister_TXIntegerList(CL);
13385: //PSingleArrayList', '^TSingleArrayList // will not work
13386:   SIRegister_TSingleList(CL);
13387:   SIRegister_TByteList(CL);
13388:   SIRegister_TQuaternionList(CL);
13389:   Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13390:   Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13391:   Procedure FastQuickSortLists(startIndex,
13392:     endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13392: end;
13393:
13394: procedure SIRegister_MeshUtils(CL: TPSPascalCompiler);
13395: begin
13396:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13397:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13398:   Procedure ConvertStripToList2(const strip:TAffineVectorList;const
13399:     indices:TIntegerList;list:TAffineVectorList);
13400:   Function BuildVectorCountOptimizedIndices(const vertices:TAffineVectorList; const
13401:     normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList
13402:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13403:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13404:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList )
13405:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13406:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13407:   Procedure UnifyTrianglesWinding( indices : TIntegerList )
13408:   Procedure InvertTrianglesWinding( indices : TIntegerList )
13409:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13410:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
13411:     edgesTriangles : TIntegerList ) : TIntegerList
13412:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean):
13413:     TPersistentObjectList;
13414:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13415:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList;
13416:     normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13417: end;
13418:
13419: procedure SIRegister_JclSysUtils(CL: TPSPascalCompiler);
13420: begin
13421:   Procedure GetAndFillMem( var P : TObject; const Size : Integer; const Value : Byte )
13422:   Procedure FreeMemAndNil( var P : TObject )
13423:   Function PCharOrNil( const S : string ) : PChar
13424:   SIRegister_TJclReferenceMemoryStream(CL);
13425:   FindClass('TOBJECT'), 'EJclVMTError
13426:   {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13427:   Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13428:   Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer)
13429:     PDYNAMICINDEXLIST', '^TDYNAMICINDEXLIST // will not work
13430:     PDYNAMICADDRESSLIST', '^TDYNAMICADDRESSLIST // will not work
13431:   Function GetDynamicMethodCount( AClass : TClass ) : Integer
13432:   Function GetDynamicAddressList( AClass : TClass ) : PDYNAMICADDRESSLIST
13433:   Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean
13434:   Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13435:   Function GetInitTable( AClass : TClass ) : PTyepInfo
13436:     PFIELDENTRY', '^TFieldEntry // will not work}
13437:   TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13438:   Function JIsClass( Address : Pointer ) : Boolean
13439:   Function JIsObject( Address : Pointer ) : Boolean

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13439: Function GetImplementorOfInterface( const I : IIInterface ) : TObject
13440:   TDigitCount', 'Integer
13441:   SIRegister_TJclNumericFormat(CL);
13442: Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13443:   TTextHandler', 'Procedure ( const Text : string )
13444: // 'ABORT_EXIT_CODE','LongInt'( ERROR_CANCELLED 1223 );
13445: Function JExecute(const
CommandLine:string;OutputLineCallback:TTextHandler;RawOutpt:Bool;AbortPtr:PBool):Cardinal;
13446: Function JExecute(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13447: Function ReadKey : Char //to and from the DOS console !
13448:   TModuleHandle', 'HINST
13449: //TModuleHandle', 'Pointer
13450: 'INVALID_MODULEHANDLE_VALUE','LongInt'( TModuleHandle ( 0 ) );
13451: Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13452: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13453: Procedure UnloadModule( var Module : TModuleHandle )
13454: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13455: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13456: Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size: Cardinal):Boolean;
13457: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13458: FindClass('TOBJECT'),'EJclConversionError
13459: Function JStrToBoolean( const S : string ) : Boolean
13460: Function JBooleanToStr( B : Boolean ) : string
13461: Function JIntToBool( I : Integer ) : Boolean
13462: Function JBoolToInt( B : Boolean ) : Integer
13463: 'ListSeparator','String ';
13464: 'ListSeparator1','String ';
13465: Procedure ListAddItems( var List : string; const Separator, Items : string )
13466: Procedure ListIncludeItems( var List : string; const Separator, Items : string )
13467: Procedure ListRemoveItems( var List : string; const Separator, Items : string )
13468: Procedure ListDeleteItem( var List : string; const Separator : string; const Index : Integer )
13469: Function ListItemCount( const List, Separator : string ) : Integer
13470: Function ListGetItem( const List, Separator : string; const Index : Integer ) : string
13471: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13472: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13473: Function SystemTOBJECTInstance : LongWord
13474: Function IsCompiledWithPackages : Boolean
13475: Function JJclGUIDToString( const GUID : TGUID ) : string
13476: Function JJclStringToGUID( const S : string ) : TGUID
13477: SIRegister_TJclInftCriticalSection(CL);
13478: SIRegister_TJclSimpleLog(CL);
13479: Procedure InitSimpleLog( const ALogFileFileName : string )
13480: end;
13481:
13482: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13483: begin
13484:   FindClass('TOBJECT'),'EJclBorRADError
13485:   TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )
13486:   TJclBorRADToolEdition', '( deOPEN, dePRO, desVR )
13487:   TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )
13488:   TJclBorRADToolPath', 'string
13489: 'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11 );
13490: 'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11 );
13491: 'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5 );
13492: BorRADToolRepositoryPagesSection', 'String 'Repository Pages
13493: BorRADToolRepositoryDialogsPage', 'String 'Dialogs
13494: BorRADToolRepositoryFormsPage', 'String 'Forms
13495: BorRADToolRepositoryProjectsPage', 'String 'Projects
13496: BorRADToolRepositoryDataModulesPage', 'String 'Data Modules
13497: BorRADToolRepositoryObjectType', 'String 'Type
13498: BorRADToolRepositoryFormTemplate', 'String 'FormTemplate
13499: BorRADToolRepositoryProjectTemplate', 'String 'ProjectTemplate
13500: BorRADToolRepositoryObjectName', 'String 'Name
13501: BorRADToolRepositoryObjectPage', 'String 'Page
13502: BorRADToolRepositoryObjectIcon', 'String 'Icon
13503: BorRADToolRepositoryObjectDescr', 'String 'Description
13504: BorRADToolRepositoryObjectAuthor', 'String 'Author
13505: BorRADToolRepositoryObjectAncestor', 'String 'Ancestor
13506: BorRADToolRepositoryObjectDesigner', 'String 'Designer
13507: BorRADToolRepositoryDesignerDfm', 'String 'dfm
13508: BorRADToolRepositoryDesignerXfm', 'String 'xmf
13509: BorRADToolRepositoryObjectNewForm', 'String 'DefaultNewForm
13510: BorRADToolRepositoryObject MainForm', 'String 'Default MainForm
13511: SourceExtensionDelphiPackage', 'String '.dpk
13512: SourceExtensionBCBPackage', 'String '.bpk
13513: SourceExtensionDelphiProject', 'String '.dpr
13514: SourceExtensionBCBProject', 'String '.bpr
13515: SourceExtensionBDSProject', 'String '.bdsproj
13516: SourceExtensionDProject', 'String '.dproj
13517: BinaryExtensionPackage', 'String '.bpl
13518: BinaryExtensionLibrary', 'String '.dll
13519: BinaryExtensionExecutable', 'String '.exe
13520: CompilerExtensionDCP', 'String '.dep
13521: CompilerExtensionBPI', 'String '.bpi
13522: CompilerExtensionLIB', 'String '.lib
13523: CompilerExtensionTDS', 'String '.tds
13524: CompilerExtensionMAP', 'String '.map
13525: CompilerExtensionDRC', 'String '.drc
13526: CompilerExtensionDEF', 'String '.def

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13527: SourceExtensionCPP', 'String '.cpp
13528: SourceExtensionH', 'String '.h
13529: SourceExtensionPAS', 'String '.pas
13530: SourceExtensionDFM', 'String '.dfm
13531: SourceExtensionXFM', 'String '.xfm
13532: SourceDescriptionPAS', 'String 'Pascal source file
13533: SourceDescriptionCPP', 'String 'C++ source file
13534: DesignerVCL', 'String 'VCL
13535: DesignerCLX', 'String 'CLX
13536: ProjectTypePackage', 'String 'package
13537: ProjectTypeLibrary', 'String 'library
13538: ProjectTypeProgram', 'String 'program
13539: Personality32Bit', 'String '32 bit
13540: Personality64bit', 'String '64 bit
13541: PersonalityDelphi', 'String 'Delphi
13542: PersonalityDelphiDotNet', 'String 'Delphi.net
13543: PersonalityBCB', 'String 'C++Builder
13544: PersonalityCSB', 'String 'C#Builder
13545: PersonalityVB', 'String 'Visual Basic
13546: PersonalityDesign', 'String 'Design
13547: PersonalityUnknown', 'String 'Unknown personality
13548: PersonalityBDS', 'String 'Borland Developer Studio
13549: DOFDirectoriesSection', 'String 'Directories
13550: DOFUUnitOutputDirKey', 'String 'UnitOutputDir
13551: DOFSearchPathName', 'String 'SearchPath
13552: DOFConditionals', 'String 'Conditionals
13553: DOFLinkerSection', 'String 'Linker
13554: DOFPackagesKey', 'String 'Packages
13555: DOFCompilerSection', 'String 'Compiler
13556: DOFPackageNoLinkKey', 'String 'PackageNoLink
13557: DOFAdditionalSection', 'String 'Additional
13558: DOFOptionsKey', 'String 'Options
13559: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13560: +'pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13561: +'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13562: TJclBorPersonalities', 'set of TJclBorPersonality
13563: TJclBorDesigner', '( bdVCL, bdCLX )
13564: TJclBorDesigners', 'set of TJclBorDesigner
13565: TJclBorPlatform', '( bp32bit, bp64bit )
13566: FindClass('TOBJECT'), TJclBorRADToolInstallation
13567: SIRegister_TJclBorLandOpenHelp(CL);
13568: SIRegister_TJclBorHelp2Object(CL);
13569: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13570: TJclHelp2Objects', 'set of TJclHelp2Object
13571: SIRegister_TJclHelp2Manager(CL);
13572: SIRegister_TJclBorRADToolIDE(CL);
13573: SIRegister_TJclBorRADToolIDEPackages(CL);
13574: SIRegister_IJclCommandLineTool(CL);
13575: FindClass('TOBJECT'), EJclCommandLineToolError
13576: SIRegister_TJclCommandLineTool(CL);
13577: SIRegister_TJclBorLandCommandLineTool(CL);
13578: SIRegister_TJclBCC32(CL);
13579: SIRegister_TJclDCC32(CL);
13580: TJclDCC', 'TJclDCC32
13581: SIRegister_TJclBpr2Mak(CL);
13582: SIRegister_TJclBorLandMake(CL);
13583: SIRegister_TJclBorRADToolPalette(CL);
13584: SIRegister_TJclBorRADToolRepository(CL);
13585: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13586: TCommandLineTools', 'set of TCommandLineTool
13587: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13588: SIRegister_TJclBorRADToolInstallation(CL);
13589: SIRegister_TJclBCBInstallation(CL);
13590: SIRegister_TJclDelphiInstallation(CL);
13591: SIRegister_TJclDCCL(CL);
13592: SIRegister_TJclBDSInstallation(CL);
13593: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13594: SIRegister_TJclBorRADToolInstallations(CL);
13595: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13596: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13597: Function IsDelphiPackage( const FileName : string ) : Boolean
13598: Function IsDelphiProject( const FileName : string ) : Boolean
13599: Function IsBCBPackage( const FileName : string ) : Boolean
13600: Function IsBCBProject( const FileName : string ) : Boolean
13601: Procedure GetDPRFileInfo( const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString );
13602: Procedure GetBPRFileInfo( const BPRFileName:string;out BinaryFileName:string;const Descript:PString );
13603: Procedure GetDPKFileInfo( const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString );
13604: Procedure GetBPKFileInfo( const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13605: function SamePath(const Path1, Path2: string): Boolean;
13606: end;
13607:
13608: procedure SIRegister_JclFileUtils_max(CL: TPSpascalCompiler);
13609: begin
13610:   'ERROR_NO_MORE_FILES', 'LongInt'( 18 );
13611:   //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13612:   //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13613:   //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer

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13614: 'LPathSeparator','String '/
13615: 'LDirDelimiter','String '/
13616: 'LDirSeparator','String ':'
13617: 'JXPathDevicePrefix','String '\\.\\
13618: 'JXPathSeparator','String '\
13619: 'JXDirDelimiter','String '\
13620: 'JXDirSeparator','String ';
13621: 'JXPathUncPrefix','String '\\\
13622: 'faNormalFile','LongWord')($00000080);
13623: //faUnixSpecific,'faSymLink);
13624: JXTCompactPath', '( cpCenter, cpEnd )
13625:     _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13626:     +'tCreationTime: TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime : '
13627:     +'TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13628: TWIn32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13629: WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13630:
13631: Function jxPathAddSeparator( const Path : string ) : string
13632: Function jxPathAddExtension( const Path, Extension : string ) : string
13633: Function jxPathAppend( const Path, Append : string ) : string
13634: Function jxPathBuildRoot( const Drive : Byte) : string
13635: Function jxPathCanonicalize( const Path : string ) : string
13636: Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13637: Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13638: Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
13639: Function jxPathExtractFileDialogFixed( const S : string ) : string
13640: Function jxPathExtractFileNameNoExt( const Path : string ) : string
13641: Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13642: Function jxPathGetDepth( const Path : string ) : Integer
13643: Function jxPathGetLongName( const Path : string ) : string
13644: Function jxPathGetShortName( const Path : string ) : string
13645: Function jxPathGetLongName( const Path : string ) : string
13646: Function jxPathGetShortName( const Path : string ) : string
13647: Function jxPathGetRelativePath( Origin, Destination : string ) : string
13648: Function jxPathGetTempPath : string
13649: Function jxPathIsAbsolute( const Path : string ) : Boolean
13650: Function jxPathIsChild( const Path, Base : string ) : Boolean
13651: Function jxPathIsDiskDevice( const Path : string ) : Boolean
13652: Function jxPathIsUNC( const Path : string ) : Boolean
13653: Function jxPathRemoveSeparator( const Path : string ) : string
13654: Function jxPathRemoveExtension( const Path : string ) : string
13655: Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13656: Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13657: JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13658: JxTFileListOptions', 'set of TFileListOption
13659: JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13660: TFileHandler', 'Procedure ( const FileName : string )
13661: TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec)
13662: Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13663: //Function AdvBuildFileList( const Path : string; const Attr : Integer; const Files : TStrings; const
13664: AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
13665: FileMatchFunc:TFileMatchFunc):Bool;
13666: Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13667: Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13668: Function jxFileAttributesStr( const FileInfo : TSearchRec ) : string
13669: Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13670: Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
13671: RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13672: Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
13673: IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13674: Procedure jxCreatEmptyFile( const FileName : string)
13675: Function jxCloseVolume( var Volume : THandle ) : Boolean
13676: Function jxDeleteDirectory( const DirectoryName : string; MoveToRecycleBin : Boolean ) : Boolean
13677: Function jxCopyDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13678: Function jxMoveDirectory( ExistingDirectoryName, NewDirectoryName : string ) : Boolean
13679: Function jxDelTree( const Path : string ) : Boolean
13680: //Function DelTreeEx(const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress):Boolean
13681: Function jxDiskInDrive( Drive : Char ) : Boolean
13682: Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13683: Function jxFileCreateTemp( var Prefix : string ) : THandle
13684: Function jxFilBackup( const FileName : string; Move : Boolean ) : Boolean
13685: Function jxFilCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13686: Function jxFilDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13687: Function jxFilExists( const FileName : string ) : Boolean
13688: Function jxFilMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13689: Function jxFilRestore( const FileName : string ) : Boolean
13690: Function jxFilGetBackupFileName( const FileName : string ) : string
13691: Function jxFilIsBackupFileName( const FileName : string ) : Boolean
13692: Function jxFilGetDisplayName( const FileName : string ) : string
13693: Function jxFilGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13694: Function jxFilGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13695: Function jxFilGetSize( const FileName : string ) : Int64
13696: Function jxFilGetTempName( const Prefix : string ) : string
13697: Function jxFilGetType( const FileName : string ) : string
13698: Function jxFilFindUnusedFileName(FileName:string; const FileExt : string; NumberPrefix : string ) : string
13699: Function jxFilForceDirectories( Name : string ) : Boolean
13700: Function jxFilGetDirectorySize( const Path : string ) : Int64
13701: Function jxFilGetDriveTypeStr( const Drive : Char ) : string
13702: Function jxFilGetFileAgeCoherence( const FileName : string ) : Boolean

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13699: Procedure jxGetFileAttributeList( const Items : TStrings; const Attr : Integer)
13700: Procedure jxGetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
13701: Function jxGetFileInfo( const FileName : string; out FileInfo : TSearchRec ) : Boolean;
13702: Function jxGetInformation( const FileName : string ) : TSearchRec;
13703: //Function GetFileStatus(const FileName:string;out StatBuf:TStatBuf64;const
13704:   ResolveSymLinks:Boolean):Integer
13704: Function jxGetFileLastWrite( const FName : string ) : TFileTime;
13705: Function jxGetFileLastWrite1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13706: Function jxGetFileLastAccess( const FName : string ) : TFileTime;
13707: Function jxGetFileLastAccess1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13708: Function jxGetFileCreation( const FName : string ) : TFileTime;
13709: Function jxGetFileCreation1( const FName : string; out LocalTime : TDateTime ) : Boolean;
13710: Function jxGetFileLastWrite( const FName : string; out TimeStamp:Integer;ResolveSymLinks : Bool):Bool;
13711: Function jxGetFileLastWrite1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13712: Function jxGetFileLastWrite2( const FName : string; ResolveSymLinks : Boolean ) : Integer;
13713: Function jxGetFileLastAccess( const FName:string; out TimeStamp:Integer;ResolveSymLinks: Bool): Bool;
13714: Function jxGetFileLastAccess1(const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13715: Function jxGetFileLastAccess2(const FName:string; ResolveSymLinks:Boolean): Integer;
13716: Function jxGetFileLastAttrChange( const FName:string;out TimeStamp:Integer;ResolveSymLinks:Bool): Bool;
13717: Function jxGetFileLastAttrChang1( const FName:string; out LocalTime:TDateTime;ResolveSymLinks:Bool): Bool;
13718: Function jxGetFileLastAttrChange2( const FName : string; ResolveSymLinks: Boolean ): Integer;
13719: Function jxGetModulePath( const Module : HMODULE ) : string;
13720: Function jxGetSizeOfFile( const FileName : string ) : Int64;
13721: Function jxGetSizeOfFile1( const FileInfo : TSearchRec ) : Int64;
13722: Function jxGetSizeOfFile2( Handle : THandle ) : Int64;
13723: Function jxGetStandardFileInfo( const FileName : string ) : TWin32FileAttributeData;
13724: Function jxIsDirectory( const FileName : string; ResolveSymLinks : Boolean ) : Boolean;
13725: Function jxIsRootDirectory( const CanonicalFileName : string ) : Boolean;
13726: Function jxLockVolume( const Volume : string; var Handle : THandle ) : Boolean;
13727: Function jxOpenVolume( const Drive : Char ) : THandle;
13728: Function jxSetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean;
13729: Function jxSetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean;
13730: Function jxSetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean;
13731: Function jxSetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean;
13732: Function jxSetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean;
13733: Function jxSetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean;
13734: Procedure jxShredfile( const FileName : string; Times : Integer );
13735: Function jxUnlockVolume( var Handle : THandle ) : Boolean;
13736: Function jxCreatSymbolicLink( const Name, Target : string ) : Boolean;
13737: Function jxSymbolicLinkTarget( const Name : string ) : string;
13738: TAttributeInterest', '( aiIgnored, aiRejected, aiRequired )';
13739: SIRegister_TJclCustomFileAttrMask(CL);
13740: SIRegister_TJclFileAttributeMask(CL);
13741: TFileSearchOption', '( fsIncludeSubDirectories, fsIncludeHidden$,
13742: + 'ubDirectories, fsLastChangeAfter, fsLastChangeBefore, fsMaxSize, fsMinSize)';
13743: TFileSearchOptions', 'set of TFileSearchOption';
13744: TFileSearchTaskID', 'Integer';
13745: TFileSearchTerminationEvent', 'Procedure ( const ID : TFileSearc';
13746: +'hTaskID; const Aborted : Boolean)';
13747: TFileEnumeratorSyncMode', '( smPerFile, smPerDirectory )';
13748: SIRegister_IJclFileEnumerator(CL);
13749: SIRegister_TJclFileEnumerator(CL);
13750: Function JxFileSearch : IJclFileEnumerator;
13751: JxTFileFlag', '( ffDebug, ffInfoInferred, ffPatched, ffPreRelease, ffPrivateBuild, ffSpecialBuild )';
13752: JxTFileFlags', 'set of TFileFlag';
13753: FindClass('TOBJECT'), 'EJclFileVersionInfoError';
13754: SIRegister_TJclFileVersionInfo(CL);
13755: Function jxOSIdentToString( const OSIdent : DWORD ) : string;
13756: Function jxOSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string;
13757: Function jxVersionResourceAvailable( const FileName : string ) : Boolean;
13758: TFileVersionFormat', '( vfMajorMinor, vfFull )';
13759: Function jxFormatVersionString( const HiV, LoV : Word ) : string;
13760: Function jxFormatVersionString1( const Major, Minor, Build, Revision : Word ) : string;
13761: //Function FormatVersionString2( const FixedInfo : TVSFixedFileInfo;VersionFormat:TFFileVersionFormat):str;
13762: //Procedure VersionExtractFileInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,Revision:Word);
13763: //Procedure VersionExtractProductInfo(const FixedInfo:TVSFixedFileInfo;var Major,Minor,Build,
13764: Revision:Word);
13764: //Function VersionFixedFileInfo( const FileName : string; var FixedInfo : TVSFixedFileInfo ) : Boolean;
13765: Function jxVersionFixedFileInfoString( const FileName : string; VersionFormat : TFileVersionFormat; const
13766: NotAvailableText : string ) : string;
13766: SIRegister_TJclTempFileStream(CL);
13767: FindClass('TOBJECT'), 'TJclCustomFileMapping';
13768: SIRegister_TJclFileMappingView(CL);
13769: TJclFileMappingRoundOffset', '( rvDown, rvUp )';
13770: SIRegister_TJclCustomFileMapping(CL);
13771: SIRegister_TJclFileMapping(CL);
13772: SIRegister_TJclSwapFileMapping(CL);
13773: SIRegister_TJclFileMappingStream(CL);
13774: TJclMappedTextReaderIndex', '( tiNoIndex, tiFull )';
13775: //PPCharArray', '^TPCharArray // will not work
13776: SIRegister_TJclMappedTextReader(CL);
13777: SIRegister_TJclFileMaskComparator(CL);
13778: FindClass('TOBJECT'), 'EJclPathError';
13779: FindClass('TOBJECT'), 'EJclFileUtilsError';
13780: FindClass('TOBJECT'), 'EJclTempFileStreamError';
13781: FindClass('TOBJECT'), 'EJclTempFileStreamError';
13782: FindClass('TOBJECT'), 'EJclFileMappingError';
13783: FindClass('TOBJECT'), 'EJclFileMappingViewError';
13784: Function jxPathGetLongName2( const Path : string ) : string;

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13785: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13786: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean
13787: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13788: Function jxWin32RestoreFile( const FileName : string ) : Boolean
13789: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13790: Procedure jxPathListAddItems( var List : string; const Items : string )
13791: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13792: Procedure jxPathListDelItems( var List : string; const Items : string )
13793: Procedure jxPathListDelItem( var List : string; const Index : Integer )
13794: Function jxPathListItemCount( const List : string ) : Integer
13795: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13796: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13797: Function jxPathListIndex( const List, Item : string ) : Integer
13798: Function jxParamName( Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool):string
13799: Function jxParamValue( Index : Integer; const Separator : string; TrimValue : Boolean ) : string;
13800: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13801: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string ) : Integer
13802: end;
13803:
13804: procedure SIRegister_FileUtil(CL: TPSPascalCompiler);
13805: begin
13806:   'UTF8FileHeader', 'String #$ef#$bb#$bf';
13807:   Function lCompareFilenames( const Filenamel, Filename2 : string ) : integer
13808:   Function lCompareFilenamesIgnoreCase( const Filenamel, Filename2 : string ) : integer
13809:   Function lCompareFilenames( const Filenamel, Filename2 : string; ResolveLinks : boolean ) : integer
13810:   Function lCompareFilenames(Filenamel:PChar;Len1:int;Filename2:PChar;Len2:int;ResolveLinks:boolean):int;
13811:   Function lFilenameIsAbsolute( const TheFilename : string ) : boolean
13812:   Function lFilenameIsWinAbsolute( const Thefilename : string ) : boolean
13813:   Function lFilenameIsUnixAbsolute( const Thefilename : string ) : boolean
13814:   Procedure lCheckIfFileIsExecutable( const AFilename : string )
13815:   Procedure lCheckIfFileIsSymlink( const AFilename : string )
13816:   Function lFileIsReadable( const AFilename : string ) : boolean
13817:   Function lFileIsWritable( const AFilename : string ) : boolean
13818:   Function lFileIsText( const AFilename : string ) : boolean
13819:   Function lFileIsText( const AFilename : string; out FileReadable : boolean ) : boolean
13820:   Function lFileIsExecutable( const AFilename : string ) : boolean
13821:   Function lFileIsSymlink( const AFilename : string ) : boolean
13822:   Function lFileIsHardLink( const AFilename : string ) : boolean
13823:   Function lFileSize( const Filename : string ) : int64;
13824:   Function lGetFileDescription( const AFilename : string ) : string
13825:   Function lReadAllLinks( const Filename : string; ExceptionOnError : boolean ) : string
13826:   Function lTryReadAllLinks( const Filename : string ) : string
13827:   Function lDirPathExists( const FileName : String ) : Boolean
13828:   Function lForceDirectory( DirectoryName : string ) : boolean
13829:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13830:   Function lProgramDirectory : string
13831:   Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13832:   Function lExtractFileNameOnly( const AFilename : string ) : string
13833:   Function lExtractFileNameWithoutExt( const AFilename : string ) : string
13834:   Function lCompareFileExt( const Filename, Ext : string; CaseSensitive : boolean ) : integer;
13835:   Function lCompareFileExt( const Filename, Ext : string ) : integer;
13836:   Function lFilenameIsPascalUnit( const Filename : string ) : boolean
13837:   Function lAppendPathDelim( const Path : string ) : string
13838:   Function lChompPathDelim( const Path : string ) : string
13839:   Function lTrimFilename( const AFilename : string ) : string
13840:   Function lCleanAndExpandFilename( const Filename : string ) : string
13841:   Function lCleanAndExpandDirectory( const Filename : string ) : string
13842:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13843:   Function lCreateRelativePath( const Filename, BaseDirectory : string; UsePointDirectory : boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
13844:   Function lCreateAbsolutePath( const Filename, BaseDirectory : string ) : string
13845:   Function lFileIsInPath( const Filename, Path : string ) : boolean
13846:   Function lFileIsInDirectory( const Filename, Directory : string ) : boolean
13847:   TSearchFileInPathFlag', '( sffDontSearchInbasePath, sffSearchLoUpCase )
13848:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13849:   'AllDirectoryEntriesMask', 'String '*
13850:   Function l GetAllFilesMask : string
13851:   Function lGetExeExt : string
13852:   Function lSearchFileInPath( const Filename, basePath, SearchPath, Delimiter : string; Flags :
    TSearchFileInPathFlags ) : string
13853:   Function lSearchAllFilesInPath( const Filename, basePath, SearchPath, Delimiter:string;Flags :
    TSearchFileInPathFlags ) : TStrings
13854:   Function lFindDiskFilename( const Filename : string ) : string
13855:   Function lFindDiskFileCaseInsensitive( const Filename : string ) : string
13856:   Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13857:   Function lGetDarwinSystemFilename( Filename : string ) : string
13858:   SIRegister_TFileIterator(CL);
13859:   TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13860:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13861:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator )
13862:   SIRegister_TFileSearcher(CL);
13863:   Function lFindAllFiles(const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool):TStringList
13864:   Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13865:   // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13866:   // TCopyFileFlags', 'set of TCopyFileFlag
13867:   Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags ) : boolean
13868:   Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean

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13869: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13870: Function lReadFileToString( const Filename : string) : string
13871: Function lGetTempFilename( const Directory, Prefix : string) : string
13872: {Function NeedRTLAnsi : boolean
13873: Procedure SetNeedRTLAnsi( NewValue : boolean)
13874: Function UTF8ToSys( const s : string) : string
13875: Function SysToUTF8( const s : string) : string
13876: Function ConsoleToUTF8( const s : string) : string
13877: Function UTF8ToConsole( const s : string) : string}
13878: Function FileExistsUTF8( const FileName : string) : boolean
13879: Function FileAgeUTF8( const FileName : string) : Longint
13880: Function DirectoryExistsUTF8( const Directory : string) : Boolean
13881: Function ExpandFileNameUTF8( const FileName : string) : string
13882: Function ExpandUNCfileNameUTF8( const FileName : string) : string
13883: Function ExtractShortPathNameUTF8( const FileName : String) : String
13884: Function FindFirstUTF8(const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13885: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13886: Procedure FindCloseUTF8( var F : TSearchrec)
13887: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
13888: Function FileGetAttrUTF8( const FileName : String) : Longint
13889: Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
13890: Function DeleteFileUTF8( const FileName : String) : Boolean
13891: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
13892: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
13893: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
13894: Function GetCurrentDirUTF8 : String
13895: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
13896: Function CreateDirUTF8( const NewDir : String) : Boolean
13897: Function RemoveDirUTF8( const Dir : String) : Boolean
13898: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13899: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13900: Function FileCreateUTF8( const FileName : string) : THandle;
13901: Function FileCreateUTF8l( const FileName : string; Rights : Cardinal) : THandle;
13902: Function ParamStrUTF8( Param : Integer) : string
13903: Function GetEnvironmentStringUTF8( Index : Integer) : string
13904: Function GetEnvironmentVariableUTF8( const EnvVar : string) : String
13905: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
13906: Function GetAppConfigFileUTF8(Global:Boolean; SubDir:boolean; CreateDir : boolean) : string
13907: Function SysErrorMessageUTF8( ErrorCode : Integer) : String
13908: end;
13909:
13910: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13911: begin
13912: //VK_F23 = 134;
13913: //{$EXTERNALSYM VK_F24}
13914: //VK_F24 = 135;
13915: TVirtualKeyCode', 'Integer
13916: 'VK_MOUSEWHEELUP','integer'(134);
13917: 'VK_MOUSEWHEELDOWN','integer'(135);
13918: Function glIsKeyDown( c : Char ) : Boolean;
13919: Function glIsKeyDown( vk : TVirtualKeyCode ) : Boolean;
13920: Function glKeyPressed( minVkCode : TVirtualKeyCode ) : TVirtualKeyCode
13921: Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode ) : String
13922: Function glKeyNameToVirtualKeyCode( const keyName : String ) : TVirtualKeyCode
13923: Function glCharToVirtualKeyCode( c : Char ) : TVirtualKeyCode
13924: Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer )
13925: end;
13926:
13927: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13928: begin
13929: TGLPoint', 'TPoint
13930: //PGLPoint', '^TGLPoint // will not work
13931: TGLRect', 'TRect
13932: //PGLRect', '^TGLRect // will not work
13933: TDelphiColor', 'TColor
13934: TGLPicture', 'TPicture
13935: TGLGraphic', 'TGraphic
13936: TGLBitmap', 'TBitmap
13937: //TGraphicClass', 'class of TGraphic
13938: TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13939: TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13940: TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13941: +'Button; Shift : TShiftState; X, Y : Integer)
13942: TGLMouseMoveEvent', 'TMouseEvent
13943: TGLKeyEvent', 'TKeyEvent
13944: TGLKeyPressEvent', 'TKeyPressEvent
13945: EGLOSError', 'EWin32Error
13946: EGLOSError', 'EWin32Error
13947: EGLOSError', 'EOSError
13948: 'glsAllFilter', 'string'All // $AllFilter
13949: Function GLPoint( const x, y : Integer ) : TGLPoint
13950: Function GLRGB( const r, g, b : Byte ) : TColor
13951: Function GLColorToRGB( color : TColor ) : TColor
13952: Function GLGetRValue( rgb : DWORD ) : Byte
13953: Function GLGetGValue( rgb : DWORD ) : Byte
13954: Function GLGetBValue( rgb : DWORD ) : Byte
13955: Procedure GLInitWinColors
13956: Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
13957: Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer )

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13958: Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
13959: Procedure GLInformationDlg( const msg : String )
13960: Function GLQuestionDlg( const msg : String ) : Boolean
13961: Function GLInputDlg( const aCaption, aPrompt, aDefault : String ) : String
13962: Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13963: Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13964: Function GLApplicationTerminated : Boolean
13965: Procedure GLRaiseLastOSError
13966: Procedure GLFreeAndNil( var anObject: TObject )
13967: Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
13968: Function GLGetCurrentColorDepth : Integer
13969: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
13970: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
13971: Procedure GLSleep( length : Cardinal )
13972: Procedure GLQueryPerformanceCounter( var val : Int64 )
13973: Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
13974: Function GLStartPrecisionTimer : Int64
13975: Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
13976: Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
13977: Function GLRDTSC : Int64
13978: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
13979: Function GLOKMessageBox( const Text, Caption : string ) : Integer
13980: Procedure GLShowHTMLUrl( Url : String )
13981: Procedure GLShowCursor( AShow : boolean )
13982: Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
13983: Procedure GLGetCursorPos( var point : TGLPoint )
13984: Function GLGetScreenWidth : integer
13985: Function GLGetScreenHeight : integer
13986: Function GLGetTickCount : int64
13987: function RemoveSpaces(const str : String) : String;
13988:   TNoramlMapSpace'.'( nmsObject, nmsTangent )
13989: Procedure CalcObjectSpaceLightVectors(Light:TAffineVector;Vertices TAffineVectorList:Colors:TVectorList)
13990: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList )
13991: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectorList )
13992: Function CreateObjectSpaceNormalMap( Width,Height:Integer;HiNormals,
13993:   HiTexCoords:TAffineVectorList):TGLBitmap
13994: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
13995:   LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLBitmap
13996: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
13997: begin
13998:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
13999: // PGLStarRecord', '^TGLStarRecord // will not work
14000: Function StarRecordPositionZUp( const starRecord : TGLStarRecord ) : TAffineVector
14001: Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
14002: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
14003: end;
14004:
14005:
14006: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14007: begin
14008:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14009: //PAABB', '^TAABB // will not work
14010: TBSphere', 'record Center : TAffineVector; Radius : single; end
14011: TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
14012: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14013: Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14014: Procedure AddAABB( var aabb : TAABB; const aabb1 : TAABB )
14015: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
14016: Procedure SetAABB( var bb : TAABB; const v : TVector )
14017: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix )
14018: Procedure AABBTTransform( var bb : TAABB; const m : TMatrix )
14019: Procedure AABBScale( var bb : TAABB; const v : TAffineVector )
14020: Function BBMinX( const c : THmgBoundingBox ) : Single
14021: Function BBMaxX( const c : THmgBoundingBox ) : Single
14022: Function BBMinY( const c : THmgBoundingBox ) : Single
14023: Function BBMaxY( const c : THmgBoundingBox ) : Single
14024: Function BBMinZ( const c : THmgBoundingBox ) : Single
14025: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14026: Procedure AABBIInclude( var bb : TAABB; const p : TAffineVector )
14027: Procedure AABBFfromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14028: Function AABBIntersection( const aabb1, aabb2 : TAABB ) : TAABB
14029: Function BBTAAABB( const aBB : THmgBoundingBox ) : TAABB
14030: Function AABBTtoBB( const anAABB : TAABB ) : THmgBoundingBox;
14031: Function AABBTtoBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox;
14032: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14033: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14034: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14035: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14036: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14037: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14038: Function AABBfitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14039: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14040: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14041: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14042: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14043: Procedure ExtractAABBCorners( const AABB : TAABB; var AABBCorners : TAABBCorners )

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14044: Procedure AABBTosSphere( const AABB : TAABB; var BSphere : TBSphere);
14045: Procedure BSphereToAABB( const BSphere : TBSphere; var AABB : TAABB);
14046: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14047: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14048: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains;
14049: Function BSphereContainsAABB( const mainBSphere : TBSphere; const testAABB : TAABB ) : TSpaceContains;
14050: Function BSphereContainsBSphere( const mainBSphere, testBSphere : TBSphere ) : TSpaceContains;
14051: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : TBSphere ) : TSpaceContains;
14052: Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
testBSphere:TBSphere):TSpaceContains;
14053: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : TBSphere ) : TSpaceContains;
14054: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains;
14055: Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector;
14056: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : TBSphere ) : boolean;
14057: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single );
14058: Function AABBToClipRect( const aabb:TAABB;modelViewProjection:TMATRIX;viewportSizeX,
viewportSizeY:Int ):TClipRect;
14059: end;
14060:
14061: procedure SIRegister_GeometryCoordinates(CL: TPSPPascalCompiler);
14062: begin
14063:   Procedure Cylindrical_Cartesian( const r, theta, z1 : single; var x, y, z : single );
14064:   Procedure Cylindrical_Cartesian1( const r, theta, z1 : double; var x, y, z : double );
14065:   Procedure Cylindrical_Cartesian2( const r,theta,z1 : single; var x, y, z : single; var ierr : integer );
14066:   Procedure Cylindrical_Cartesian3( const r,theta,z1 : double; var x, y, z : double; var ierr : integer );
14067:   Procedure Cartesian_Cylindrical( const x, y, z1 : single; var r, theta, z : single );
14068:   Procedure Cartesian_Cylindrical1( const x, y, z1 : double; var r, theta, z : double );
14069:   Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single );
14070:   Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double );
14071:   Procedure Spherical_Cartesian2( const r,theta, phi : single; var x, y, z : single; var ierr : integer );
14072:   Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer );
14073:   Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single );
14074:   Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : Single );
14075:   Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double );
14076:   Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14077:   Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14078:   Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer );
14079:   Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer );
14080:   Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14081:   Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14082:   Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr:integer );
14083:   Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr:integer );
14084:   Procedure BipolarCylindrical_Cartesian( const u, v, z1, a : single; var x, y, z : single );
14085:   Procedure BipolarCylindrical_Cartesian1( const u, v, z1, a : double; var x, y, z : double );
14086:   Procedure BipolarCylindrical_Cartesian2( const u,v,z1,a: single;var x,y,z:single; var ierr : integer );
14087:   Procedure BipolarCylindrical_Cartesian3( const u,v,z1,a: double;var x,y,z:double; var ierr : integer );
14088: end;
14089:
14090: procedure SIRegister_VectorGeometry(CL: TPSPPascalCompiler);
14091: begin
14092:   'EPSILON','Single').setExtended( 1e-40 );
14093:   'EPSILON2','Single').setExtended( 1e-30 );  }
14094: TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14095:   +'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14096: THmgPlane', 'TVector
14097: TDoubleshmgPlane', 'THomogeneousDblVector
14098: {TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14099:   +'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14100:   +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW ) }
14101: TSinglArray', 'array of Single
14102: TTransformations', 'array [0..15] of Single)
14103: TPackedRotationMatrix', 'array [0..2] of Smallint)
14104: TVertex', 'TAffineVector
14105: //TVectorGL', 'THomogeneousFltVector
14106: //TMATRIXGL', 'THomogeneousFltMatrix
14107: // TPackedRotationMatrix = array [0..2] of SmallInt;
14108: Function glTexPointMake( const s, t : Single ) : TTExPoint
14109: Function glAffineVectorMake( const x, y, z : Single ) : TAffineVector;
14110: Function glAffineVectorMakel( const v : TVectorGL ) : TAffineVector;
14111: Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single );
14112: Procedure glSetVector( var v : TAffineVector; const x, y, z : Single );
14113: Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL );
14114: Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector );
14115: Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector );
14116: Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL );
14117: Function glVectorMake( const v : TAffineVector; w : Single ) : TVectorGL;
14118: Function glVectorMakel( const x, y, z : Single; w : Single ) : TVectorGL;
14119: Function glPointMake( const x, y, z : Single ) : TVectorGL;
14120: Function glPointMakel( const v : TAffineVector ) : TVectorGL;
14121: Function glPointMake2( const v : TVectorGL ) : TVectorGL;
14122: Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single );
14123: Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single );
14124: Procedure glg1SetVector7( var v : TVectorGL; const vSrc : TVectorGL );
14125: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single );
14126: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector );
14127: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL );
14128: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single );
14129: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single );
14130: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector );

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14131: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14132: Procedure glRstVector( var v : TAffineVector);
14133: Procedure glRstVector1( var v : TVectorGL);
14134: Function glVectorAdd( const v1, v2 : TAffineVector ) : TAffineVector;
14135: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector );
14136: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector );
14137: Function glVectorAdd3( const v1, v2 : TVectorGL ) : TVectorGL;
14138: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL );
14139: Function glVectorAdd5( const v : TAffineVector; const f : Single ) : TAffineVector;
14140: Function glVectorAdd6( const v : TVectorGL; const f : Single ) : TVectorGL;
14141: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector );
14142: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL );
14143: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL );
14144: Procedure glAddVector10( var v : TAffineVector; const f : Single );
14145: Procedure glAddVector11( var v : TVectorGL; const f : Single );
14146: //Procedure TexPointArrayAdd(const src:PTexPointArray,const delta:TTexPoint,const
nb:Int;dest:PTexPointArray);
14147: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray,const delta:TTexPoint,const
nb:Integer;const scale: TTExPoint; dest : PTExPointArray);
14148: //Procedure VectorArrayAdd(const src:PAffineVectorArray,const delta:TAffineVector,const nb:Integer;dest:
PAffineVectorArray);
14149: Function glVectorSubtract( const V1, V2 : TAffineVector ) : TAffineVector;
14150: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector );
14151: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL );
14152: Procedure glVectorSubtract3( const v1, v2 : TAffineVector; var result : TVectorGL );
14153: Function glVectorSubtract4( const V1, V2 : TVectorGL ) : TVectorGL;
14154: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL );
14155: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector );
14156: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single ) : TAffineVector;
14157: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single ) : TVectorGL;
14158: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector );
14159: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL );
14160: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single );
14161: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat );
14162: Function glTexPointCombine( const t1, t2 : TTExPoint; f1, f2 : Single ) : TTExPoint;
14163: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single ) : TAffineVector;
14164: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single ) : TAffineVector;
14165: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector );
14166: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single );
14167: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single );
14168: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single ) : TVectorGL;
14169: Function glVectorCombine8( const V1 : TVectorGL; const V2: TAffineVector; const F1,F2:Single): TVectorGL;
14170: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL );
14171: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL );
14172: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL );
14173: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single ) : TVectorGL;
14174: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL );
14175: Function glVectorDotProduct( const V1, V2 : TAffineVector ) : Single;
14176: Function glVectorDotProduct1( const V1, V2 : TVectorGL ) : Single;
14177: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector ) : Single;
14178: Function glPointProject( const p, origin, direction : TAffineVector ) : Single;
14179: Function glPointProject1( const p, origin, direction : TVectorGL ) : Single;
14180: Function glVectorCrossProduct( const V1, V2 : TAffineVector ) : TAffineVector;
14181: Function glVectorCrossProduct1( const V1, V2 : TVectorGL ) : TVectorGL;
14182: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL );
14183: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL );
14184: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector );
14185: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector );
14186: Function glLerp( const start, stop, t : Single ) : Single;
14187: Function glAngleLerp( start, stop, t : Single ) : Single;
14188: Function glDistanceBetweenAngles( angle1, angle2 : Single ) : Single;
14189: Function glTexPointLerp( const t1, t2 : TTExPoint; t : Single ) : TTExPoint;
14190: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14191: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector );
14192: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single ) : TVectorGL;
14193: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL );
14194: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14195: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single ) : TAffineVector;
14196: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray );
14197: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest :
PAffineVectorArray );
14198: Function glVectorLength( const x, y : Single ) : Single;
14199: Function glVectorLength1( const x, y, z : Single ) : Single;
14200: Function glVectorLength2( const v : TAffineVector ) : Single;
14201: Function glVectorLength3( const v : TVectorGL ) : Single;
14202: Function glVectorLength4( const v : array of Single ) : Single;
14203: Function glVectorNorm( const x, y : Single ) : Single;
14204: Function glVectorNorm1( const v : TAffineVector ) : Single;
14205: Function glVectorNorm2( const v : TVectorGL ) : Single;
14206: Function glVectorNorm3( var V : array of Single ) : Single;
14207: Procedure glNormalizeVector( var v : TAffineVector );
14208: Procedure glNormalizeVector1( var v : TVectorGL );
14209: Function glVectorNormalize( const v : TAffineVector ) : TAffineVector;
14210: Function glVectorNormalize1( const v : TVectorGL ) : TVectorGL;
14211: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer );
14212: Function glVectorAngleCosine( const V1, V2 : TAffineVector ) : Single;
14213: Function glVectorNegate( const v : TAffineVector ) : TAffineVector;
14214: Function glVectorNegate1( const v : TVectorGL ) : TVectorGL;
14215: Procedure glNegateVector( var V : TAffineVector );

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14216: Procedure glNegateVector2( var V : TVectorGL);
14217: Procedure glNegateVector3( var V : array of Single);
14218: Procedure glScaleVector( var v : TAffineVector; factor : Single);
14219: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector);
14220: Procedure glScaleVector2( var v : TVectorGL; factor : Single);
14221: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL);
14222: Function glVectorScale( const v : TAffineVector; factor : Single) : TAffineVector;
14223: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector);
14224: Function glVectorScale2( const v : TVectorGL; factor : Single) : TVectorGL;
14225: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL);
14226: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector);
14227: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL);
14228: Function glVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14229: Function glVectorEquals1( const V1, V2 : TAffineVector) : Boolean;
14230: Function glAffineVectorEquals( const V1, V2 : TVectorGL) : Boolean;
14231: Function glVectorIsNull( const v : TVectorGL) : Boolean;
14232: Function glVectorIsNotNull( const v : TAffineVector) : Boolean;
14233: Function glVectorSpacing( const v1, v2 : TTExPoint) : Single;
14234: Function glVectorSpacing1( const v1, v2 : TAffineVector) : Single;
14235: Function glVectorSpacing2( const v1, v2 : TVectorGL) : Single;
14236: Function glVectorDistance( const v1, v2 : TAffineVector) : Single;
14237: Function glVectorDistance1( const v1, v2 : TVectorGL) : Single;
14238: Function glVectorDistance2( const v1, v2 : TAffineVector) : Single;
14239: Function glVectorDistance21( const v1, v2 : TVectorGL) : Single;
14240: Function glVectorPerpendicular( const V, N : TAffineVector) : TAffineVector;
14241: Function glVectorReflect( const V, N : TAffineVector) : TAffineVector;
14242: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single);
14243: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single);
14244: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single);
14245: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single) : TAffineVector;
14246: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single) : TAffineVector;
14247: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector);
14248: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single) : TAffineVector;
14249: Procedure glAbsVector( var v : TVectorGL);
14250: Procedure glAbsVector1( var v : TAffineVector);
14251: Function glVectorAbs( const v : TVectorGL) : TVectorGL;
14252: Function glVectorAbs1( const v : TAffineVector) : TAffineVector;
14253: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL);
14254: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL);
14255: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix);
14256: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL);
14257: Function glCreateScaleMatrix( const v : TAffineVector) : TMatrixGL;
14258: Function glCreateScaleMatrix1( const v : TVectorGL) : TMatrixGL;
14259: Function glCreateTranslationMatrix( const V : TAffineVector) : TMatrixGL;
14260: Function glCreateTranslationMatrix1( const V : TVectorGL) : TMatrixGL;
14261: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL) : TMatrixGL;
14262: Function glCreateRotationMatrixX( const sine, cosine : Single) : TMatrixGL;
14263: Function glCreateRotationMatrixX1( const angle : Single) : TMatrixGL;
14264: Function glCreateRotationMatrixY( const sine, cosine : Single) : TMatrixGL;
14265: Function glCreateRotationMatrixY1( const angle : Single) : TMatrixGL;
14266: Function glCreateRotationMatrixZ( const sine, cosine : Single) : TMatrixGL;
14267: Function glCreateRotationMatrixZ1( const angle : Single) : TMatrixGL;
14268: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single) : TMatrixGL;
14269: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single) : TMatrixGL;
14270: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle:Single):TAffineMatrix;
14271: Function glMatrixMultiply( const M1, M2 : TAffineMatrix) : TAffineMatrix;
14272: Function glMatrixMultiply1( const M1, M2 : TMatrixGL) : TMatrixGL;
14273: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL);
14274: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL) : TVectorGL;
14275: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix) : TVectorGL;
14276: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL) : TAffineVector;
14277: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix) : TAffineVector;
14278: Function glMatrixDeterminant( const M : TAffineMatrix) : Single;
14279: Function glMatrixDeterminant1( const M : TMatrixGL) : Single;
14280: Procedure glAdjointMatrix( var M : TMatrixGL);
14281: Procedure glAdjointMatrix1( var M : TAffineMatrix);
14282: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single);
14283: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single);
14284: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector);
14285: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL);
14286: Procedure glNormalizeMatrix( var M : TMatrixGL);
14287: Procedure glTransposeMatrix( var M : TAffineMatrix);
14288: Procedure glTransposeMatrix1( var M : TMatrixGL);
14289: Procedure glInvertMatrix( var M : TMatrixGL);
14290: Procedure glInvertMatrix1( var M : TAffineMatrix);
14291: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL) : TMatrixGL;
14292: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations) : Boolean;
14293: Function glPlaneMake( const p1, p2, p3 : TAffineVector) : THmgPlane;
14294: Function glPlaneMake1( const p1, p2, p3 : TVectorGL) : THmgPlane;
14295: Function glPlaneMake2( const point, normal : TAffineVector) : THmgPlane;
14296: Function glPlaneMake3( const point, normal : TVectorGL) : THmgPlane;
14297: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane);
14298: Procedure glNormalizePlane( var plane : THmgPlane);
14299: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector) : Single;
14300: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL) : Single;
14301: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector) : TAffineVector;
14302: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector);
14303: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector);
14304: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL) : Boolean;

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14305: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TAffineVector) : Boolean;
14306: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL) : Single;
14307: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector) : Single;
14308: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop:TAffineVector):TAffineVector
14309: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector) : single
14310: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector) : TAffineVector
14311: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector) : Single
14312: Procedure SglementSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var
Segment0Closest, Segment1Closest : TAffineVector)
14313: Function glSegmentSegmentDistance(const S0Start,S0Stop,S1Start,S1Stop:TAffineVector):single
14314: TEulerOrder', (' eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX)
14315: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion
14316: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion
14317: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single
14318: Procedure glNormalizeQuaternion( var Q : TQuaternion )
14319: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion
14320: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
14321: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion
14322: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL
14323: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix
14324: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion
14325: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion
14326: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion
14327: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion
14328: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14329: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14330: Function glLnXPl( X : Extended ) : Extended
14331: Function glLog10( X : Extended ) : Extended
14332: Function glLog2( X : Extended ) : Extended
14333: Function glLog21( X : Single ) : Single;
14334: Function glLogN( Base, X : Extended ) : Extended
14335: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended
14336: Function glPower( const Base, Exponent : Single ) : Single;
14337: Function glPower1( Base : Single; Exponent : Integer ) : Single;
14338: Function glDegToRad( const Degrees : Extended ) : Extended;
14339: Function glDegToRad1( const Degrees : Single ) : Single;
14340: Function glRadToDeg( const Radians : Extended ) : Extended;
14341: Function glRadToDeg1( const Radians : Single ) : Single;
14342: Function glNormalizeAngle( angle : Single ) : Single
14343: Function glNormalizeDegAngle( angle : Single ) : Single
14344: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14345: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14346: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14347: Procedure glSinCos1( const theta : Double; var Sin, Cos : Extended );
14348: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14349: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14350: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single )
14351: Function glArcCos( const X : Extended ) : Extended;
14352: Function glArcCos1( const x : Single ) : Single;
14353: Function glArcSin( const X : Extended ) : Extended;
14354: Function glArcSin1( const X : Single ) : Single;
14355: Function glArcTan2l( const Y, X : Extended ) : Extended;
14356: Function glArcTan21( const Y, X : Single ) : Single;
14357: Function glFastArcTan2( y, x : Single ) : Single
14358: Function glTan( const X : Extended ) : Extended;
14359: Function glTanh( const X : Single ) : Single;
14360: Function glCoTan( const X : Extended ) : Extended;
14361: Function glCoTan1( const X : Single ) : Single;
14362: Function glSinh( const x : Single ) : Single;
14363: Function glSinh1( const x : Double ) : Double;
14364: Function glCosh( const x : Single ) : Single;
14365: Function glCosh1( const x : Double ) : Double;
14366: Function glRSqrt( v : Single ) : Single
14367: Function glRLength( x, y : Single ) : Single
14368: Function glISqrt( i : Integer ) : Integer
14369: Function glILength( x, y : Integer ) : Integer;
14370: Function glILength1( x, y, z : Integer ) : Integer;
14371: Procedure glRegisterBasedExp
14372: Procedure glRandomPointOnSphere( var p : TAffineVector )
14373: Function glRoundInt( v : Single ) : Single;
14374: Function glRoundInt1( v : Extended ) : Extended;
14375: Function glTrunc( v : Single ) : Integer;
14376: Function glTrunc64( v : Extended ) : Int64;
14377: Function glInt( v : Single ) : Single;
14378: Function glInt1( v : Extended ) : Extended;
14379: Function glFrac( v : Single ) : Single;
14380: Function glFract( v : Extended ) : Extended;
14381: Function glRound( v : Single ) : Integer;
14382: Function glRound64( v : Single ) : Int64;
14383: Function glRound641( v : Extended ) : Int64;
14384: Function glTrunc( X : Extended ) : Int64
14385: Function glRound( X : Extended ) : Int64
14386: Function glFrac( X : Extended ) : Extended
14387: Function glCeil( v : Single ) : Integer;
14388: Function glCeil64( v : Extended ) : Int64;
14389: Function glFloor( v : Single ) : Integer;
14390: Function glFloor64( v : Extended ) : Int64;
14391: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14392: Function glSign( x : Single ) : Integer

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14393: Function glIsInRange( const x, a, b : Single ) : Boolean;
14394: Function glIsInRangeL( const x, a, b : Double ) : Boolean;
14395: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14396: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14397: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14398: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14399: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14400: Function glMinFloat3( const v1, v2 : Single ) : Single;
14401: Function glMinFloat4( const v : array of Single ) : Single;
14402: Function glMinFloat5( const v1, v2 : Double ) : Double;
14403: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14404: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14405: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14406: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14407: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14408: //Function MaxFloat( values : PDoubleArray; nbItems : Integer ) : Double;
14409: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14410: Function glMaxFloat2( const v : array of Single ) : Single;
14411: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14412: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14413: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14414: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14415: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14416: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14417: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14418: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14419: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14420: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14421: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14422: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14423: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14424: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14425: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14426: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14427: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14428: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single );
14429: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14430: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14431: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14432: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14433: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14434: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14435: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14436: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14437: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14438: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14439: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14440: Procedure glSortArrayAscending( var a : array of Extended );
14441: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14442: Function glClampValue1( const aValue, aMin : Single ) : Single;
14443: Function glGeometryOptimizationMode : String;
14444: Procedure glBeginFPUOnlySection;
14445: Procedure glEndFPUOnlySection;
14446: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14447: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14448: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14449: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14450: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14451: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14452: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14453: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14454: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14455: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14456: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14457: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14458: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14459: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14460: Function glRoll1( const Matrix : TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14461: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single;
14462: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14463: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;
14464: const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14465: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14466: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14467: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14468: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14469: Function glIsVolumeClipped2( const min,max:TAffineVector;const rcci : TRenderContextClippingInfo ) : Bool;
14470: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;
14471: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL;
14472: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL;
14473: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix;
14474: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL;
14475: 'cPI','Single').setExtended( 3.141592654 );
14476: 'cPIdiv180','Single').setExtended( 0.017453292 );

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14477: 'c180divPI','Single').setExtended( 57.29577951);
14478: 'c2PI','Single').setExtended( 6.283185307);
14479: 'cPIdiv2','Single').setExtended( 1.570796326);
14480: 'cPIdiv4','Single').setExtended( 0.785398163);
14481: 'c3PIdiv4','Single').setExtended( 2.35619449);
14482: 'cInv2PI','Single').setExtended( 1 / 6.283185307);
14483: 'cInv360','Single').setExtended( 1 / 360);
14484: 'c180','Single').setExtended( 180);
14485: 'c360','Single').setExtended( 360);
14486: 'cOneHalf','Single').setExtended( 0.5);
14487: 'cLn10','Single').setExtended( 2.302585093);
14488: {'MinSingle','Extended').setExtended( 1.5e-45);
14489: 'MaxSingle','Extended').setExtended( 3.4e+38);
14490: 'MinDouble','Extended').setExtended( 5.0e-324);
14491: 'MaxDouble','Extended').setExtended( 1.7e+308);
14492: 'MinExtended','Extended').setExtended( 3.4e-4932);
14493: 'MaxExtended','Extended').setExtended( 1.1e+4932);
14494: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18);
14495: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18);}
14496: end;
14497:
14498: procedure SIRegister_GLVectorFileObjects(CL: TPSPPascalCompiler);
14499: begin
14500: AddClassN(FindClass('TOBJECT'), 'TMeshObjectList'
14501: (FindClass('TOBJECT'), 'TFaceGroups'
14502: TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14503: TMeshAutoCenterings', 'set of TMeshAutoCentering
14504: TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14505: SIRegister_TBaseMeshObject(CL);
14506: (FindClass('TOBJECT'), 'TSkeletonFrameList'
14507: TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14508: SIRegister_TSkeletonFrame(CL);
14509: SIRegister_TSkeletonFrameList(CL);
14510: (FindClass('TOBJECT'), 'TSkeleton
14511: (FindClass('TOBJECT'), 'TSkeletonBone
14512: SIRegister_TSkeletonBoneList(CL);
14513: SIRegister_TSkeletonRootBoneList(CL);
14514: SIRegister_TSkeletonBone(CL);
14515: (FindClass('TOBJECT'), 'TSkeletonColliderList
14516: SIRegister_TSkeletonCollider(CL);
14517: SIRegister_TSkeletonColliderList(CL);
14518: (FindClass('TOBJECT'), 'TGLBaseMesh
14519: TBlendedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14520: +'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14521: +'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14522: +'QuaternionList; end
14523: SIRegister_TSkeleton(CL);
14524: TMeshObjectRenderingOption', '( moroGroupByMaterial )
14525: TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14526: SIRegister_TMeshObject(CL);
14527: SIRegister_TMeshObjectList(CL);
14528: //TMeshObjectListClass', 'class of TMeshObjectList
14529: (FindClass('TOBJECT'), 'TMeshMorphTargetList
14530: SIRegister_TMeshMorphTarget(CL);
14531: SIRegister_TMeshMorphTargetList(CL);
14532: SIRegister_TMorphableMeshObject(CL);
14533: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14534: //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not work
14535: //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14536: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14537: SIRegister_TSkeletonMeshObject(CL);
14538: SIRegister_TFaceGroup(CL);
14539: TFaceGroupMeshMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14540: +'atTriangles, fgmmTriangleFan, fgmmQuads )
14541: SIRegister_TFGVertexIndexList(CL);
14542: SIRegister_TFGVertexNormalTexIndexList(CL);
14543: SIRegister_TFGIndexTexCoordList(CL);
14544: SIRegister_TFaceGroups(CL);
14545: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14546: SIRegister_TVectorFile(CL);
14547: //TVectorFileClass', 'class of TVectorFile
14548: SIRegister_TGLGLSMVectorFile(CL);
14549: SIRegister_TGLBaseMesh(CL);
14550: SIRegister_TGLFreeForm(CL);
14551: TGLActorOption', '( aoSkeletonNormalizeNormals )
14552: TGLActorOptions', 'set of TGLActorOption
14553: 'cDefaultGLActorOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14554: (FindClass('TOBJECT'), 'TGLActor
14555: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14556: SIRegister_TActorAnimation(CL);
14557: TActorAnimationName', 'string
14558: SIRegister_TActorAnimations(CL);
14559: SIRegister_TGLBaseAnimationController(CL);
14560: SIRegister_TGLAnimationController(CL);
14561: TActorFrameInterpolation', '( afpNone, afpLinear )
14562: TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounc'
14563: +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14564: SIRegister_TGLActor(CL);
14565: SIRegister_TVectorFileFormat(CL);

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14566:  SIRegister_TVectorFileFormatsList(CL);
14567:  (FindClass('TOBJECT'),'EInvalidVectorFile
14568:  Function GetVectorFileFormats : TVectorFileFormatsList
14569:  Function VectorFileFormatsFilter : String
14570:  Function VectorFileFormatsSaveFilter : String
14571:  Function VectorFileFormatExtensionByIndex( index : Integer ) : String
14572:  Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass )
14573:  Procedure UnregisterVectorFileClass( aClass : TVectorFileClass )
14574: end;
14575:
14576: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14577: begin
14578:  'Class_DColorPropPage', 'TGUID '{5CFF5D59-5946-11D0-BDEF-00A024D1875C}
14579:  'Class_DFontPropPage', 'TGUID '{5CFF5D5B-5946-11D0-BDEF-00A024D1875C}
14580:  'Class_DPicturePropPage', 'TGUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14581:  'Class_DStringPropPage', 'TGUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14582:  SIRegister_TOLEStream(CL);
14583:  (FindClass('TOBJECT'), 'TConnectionPoints
14584:  TConnectionKind', '( ckSingle, ckMulti )
14585:  SIRegister_TConnectionPoint(CL);
14586:  SIRegister_TConnectionPoints(CL);
14587:  TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14588:  (FindClass('TOBJECT'), 'TActiveXControlFactory
14589:  SIRegister_TActiveXControl(CL);
14590:  //TActiveXControlClass', 'class of TActiveXControl
14591:  SIRegister_TActiveXControlFactory(CL);
14592:  SIRegister_TActiveFormControl(CL);
14593:  SIRegister_TActiveForm(CL);
14594:  //TActiveFormClass', 'class of TActiveForm
14595:  SIRegister_TActiveFormFactory(CL);
14596:  (FindClass('TOBJECT'), 'TPropertyPageImpl
14597:  SIRegister_TPropertyPage(CL);
14598:  //TPropertyPageClass', 'class of TPropertyPage
14599:  SIRegister_TPropertyPageImpl(CL);
14600:  SIRegister_TActiveXPropertyPage(CL);
14601:  SIRegister_TActiveXPropertyPageFactory(CL);
14602:  SIRegister_TCustomAdapter(CL);
14603:  SIRegister_TAdapterNotifier(CL);
14604:  SIRegister_TFontAccess(CL);
14605:  SIRegister_TFontAdapter(CL);
14606:  SIRegister_TPictureAccess(CL);
14607:  SIRegister_TPictureAdapter(CL);
14608:  SIRegister_TOleGraphic(CL);
14609:  SIRegister_TStringsAdapter(CL);
14610:  SIRegister_TReflectorWindow(CL);
14611:  Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14612:  Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14613:  Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14614:  Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14615:  Procedure SetOlePicture( Picture : TPicture; Olepicture : IPictureDisp)
14616:  Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14617:  Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14618:  Function ParkingWindow : HWND
14619: end;
14620:
14621: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14622: begin
14623:  // TIP6Bytes = array [0..15] of Byte;
14624:  {binary form of IPv6 adress (for string conversion routines)}
14625:  // TIP6Words = array [0..7] of Word;
14626:  AddTypeS('TIP6Bytes', 'array [0..15] of Byte;');
14627:  AddTypeS('TIP6Words', 'array [0..7] of Word;');
14628:  AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14629:  Function synaIsIP( const Value : string ) : Boolean';
14630:  Function synaIsIP6( const Value : string ) : Boolean';
14631:  Function synaIPToID( Host : string ) : Ansistring';
14632:  Function synaStrToIp6( value : string ) : TIP6Bytes';
14633:  Function synaIp6ToStr( value : TIP6Bytes ) : string';
14634:  Function synaStrToIp( value : string ) : integer';
14635:  Function synaIpToStr( value : integer ) : string';
14636:  Function synaReverseIP( Value : AnsiString ) : AnsiString';
14637:  Function synaReverseIP6( Value : AnsiString ) : AnsiString';
14638:  Function synaExpandIP6( Value : AnsiString ) : AnsiString';
14639:  Function xStrToIP( const Value : String ) : TIPAdr';
14640:  Function xIPToStr( const Adresse : TIPAdr ) : String';
14641:  Function IPTOCardinal( const Adresse : TIPAdr ) : Cardinal';
14642:  Function CardinalToIP( const Value : Cardinal ) : TIPAdr';
14643: end;
14644:
14645: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14646: begin
14647:  AddTypeS('TSpecials', 'set of Char');
14648:  Const ('SpecialChar','TSpecials').SetSet( '={[]}<>;:@/?\\"_');
14649:  Const ('URLFullSpecialChar','TSpecials').SetSet( ':/?:@=&#+');
14650:  Const ('TableBasee64' ABCDEFGHIJKLMNOPQRSTUVWXYZabcdeffghi jklmnopqrstuvwxyz0123456789+/=+');
14651:  Const ('TableBasee64mod' ABCDEFGHIJKLMNOPQRSTUVWXYZabcdeffghi jklmnopqrstuvwxyz0123456789+,=+');
14652:  Const ('TableUU' ('!#$%&')*+,-./0123456789:;<=>@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_');
14653:  Const ('TableXX' (+-0123456789ABCDEFHIJKLMNOPQRSTUVWXYZabcdeffghi jklmnopqrstuvwxyz');
14654:  Function DecodeTriplet( const Value : AnsiString; Delimiter : Char ) : AnsiString');

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14655: Function DecodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14656: Function DecodeURL( const Value : AnsiString ) : AnsiString';
14657: Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials ) : AnsiString';
14658: Function EncodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14659: Function EncodeSafeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14660: Function EncodeURLElement( const Value : AnsiString ) : AnsiString';
14661: Function EncodeURL( const Value : AnsiString ) : AnsiString';
14662: Function Decode4to3( const Value, Table : AnsiString ) : AnsiString';
14663: Function Decode4to3Ex( const Value, Table : AnsiString ) : AnsiString';
14664: Function Encode3to4( const Value, Table : AnsiString ) : AnsiString';
14665: Function synDecodeBase64( const Value : AnsiString ) : AnsiString';
14666: Function synEncodeBase64( const Value : AnsiString ) : AnsiString';
14667: Function DecodeBase64mod( const Value : AnsiString ) : AnsiString );
14668: Function EncodeBase64mod( const Value : AnsiString ) : AnsiString );
14669: Function DecodeUU( const Value : AnsiString ) : AnsiString');
14670: Function EncodeUU( const Value : AnsiString ) : AnsiString');
14671: Function DecodeXX( const Value : AnsiString ) : AnsiString');
14672: Function DecodeYEnc( const Value : AnsiString ) : AnsiString');
14673: Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer');
14674: Function synCrc32( const Value : AnsiString ) : Integer');
14675: Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word');
14676: Function Crc16( const Value : AnsiString ) : Word');
14677: Function synMD5( const Value : AnsiString ) : Ansistring');
14678: Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString');
14679: Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14680: Function synSHA1( const Value : AnsiString ) : AnsiString');
14681: Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString');
14682: Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString');
14683: Function synMD4( const Value : AnsiString ) : Ansistring');
14684: end;
14685:
14686: procedure SIRegister_synachar(CL: TPSPascalCompiler);
14687: begin
14688:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14689:             + 'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14690:             + 'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14691:             + '4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14692:             + '_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14693:             + 'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14694:             + ', MACCRO, MACRO, MACCYR, MACUK, MACGR, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14695:             + ', NEXTSTEP, ARMASCII, GEORGIAN_AC, GEORGIAN_PS, KOI8_T, MULELAO, CP1133, T'
14696:             + 'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14697:             + '1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14698:             + '2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14699:             + 'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14700:             + 'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14701:             + ', CP864, CP865, CP869, CP1125 )');
14702:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14703:   Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14704:   Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
14705:     TransformTable : array of Word) : AnsiString');
14706:   Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
14707:     TransformTable : array of Word; Translit : Boolean) : AnsiString');
14708:   Function GetCurCP : TMimeChar');
14709:   Function GetCuroEMCP : TMimeChar');
14710:   Function GetCPFromID( Value : AnsiString ) : TMimeChar');
14711:   Function GetIDFromCP( Value : TMimeChar ) : AnsiString');
14712:   Function NeedCharsetConversion( const Value : AnsiString ) : Boolean');
14713:   Function IdealCharsetCoding( const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14714:   Function GetBOM( Value : TMimeChar ) : AnsiString');
14715:   Function StringToWide( const Value : AnsiString ) : WideString');
14716:   Function WideToString( const Value : WideString ) : AnsiString');
14717: end;
14718:
14719: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14720: begin
14721:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14722:   Procedure WakeOnLan( MAC, IP : string );
14723:   Function GetDNS : string');
14724:   Function GetIEProxy( protocol : string ) : TProxySetting');
14725:   Function GetLocalIPs : string');
14726:
14727: procedure SIRegister_synaser(CL: TPSPascalCompiler);
14728: begin
14729:   AddConstantN('synCR', 'Char #$0d);
14730:   Const('synLF', 'Char #$0a);
14731:   Const('cSerialChunk', 'LongInt'( 8192));
14732:   Const('LockfileDirectory', 'String '/var/lock');
14733:   Const('PortIsClosed', 'LongInt'( - 1));
14734:   Const('ErrAlreadyOwned', 'LongInt'( 9991);
14735:   Const('ErrAlreadyInUse', 'LongInt'( 9992);
14736:   Const('ErrWrongParameter', 'LongInt'( 9993);
14737:   Const('ErrPortNotOpen', 'LongInt'( 9994);
14738:   Const('ErrNoDeviceAnswer', 'LongInt'( 9995);
14739:   Const('ErrMaxBuffer', 'LongInt'( 9996);
14740:   Const('ErrTimeout', 'LongInt'( 9997);
14741:   Const('ErrNotRead', 'LongInt'( 9998);

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14742: Const('ErrFrame','LongInt'( 9999);
14743: Const('ErrOverrun','LongInt'( 10000);
14744: Const('ErrRxOver','LongInt'( 10001);
14745: Const('ErrRxParity','LongInt'( 10002);
14746: Const('ErrTxFull','LongInt'( 10003);
14747: Const('dcb_Binary','LongWord')( $00000001);
14748: Const('dcb_ParityCheck','LongWord')( $00000002);
14749: Const('dcb_OutxCtsFlow','LongWord')( $00000004);
14750: Const('dcb_OutxDsrFlow','LongWord')( $00000008);
14751: Const('dcb_DtrControlMask','LongWord')( $00000030);
14752: Const('dcb_DtrControlDisable','LongWord')( $00000000);
14753: Const('dcb_DtrControlEnable','LongWord')( $00000010);
14754: Const('dcb_DtrControlHandshake','LongWord')( $00000020);
14755: Const('dcb_DsrSensitivity','LongWord')( $00000040);
14756: Const('dcb_TXContinueOnXoff','LongWord')( $00000080);
14757: Const('dcb_OutX','LongWord')( $00000100);
14758: Const('dcb_InX','LongWord')( $00000200);
14759: Const('dcb_ErrorChar','LongWord')( $00000400);
14760: Const('dcb_NullStrip','LongWord')( $00000800);
14761: Const('dcb_RtsControlMask','LongWord')( $00003000);
14762: Const('dcb_RtsControlDisable','LongWord')( $00000000);
14763: Const('dcb_RtsControlEnable','LongWord')( $00001000);
14764: Const('dcb_RtsControlHandshake','LongWord')( $00002000);
14765: Const('dcb_RtsControlToggle','LongWord')( $00003000);
14766: Const('dcb_AbortOnError','LongWord')( $00004000);
14767: Const('dcb_Reserveds','LongWord')( $FFFF8000);
14768: Const('synSBL','LongInt'( 0);
14769: Const('SB1andHalf','LongInt'( 1);
14770: Const('synSB2','LongInt'( 2);
14771: Const('synINVALID_HANDLE_VALUE','LongInt'( THandle ( - 1 )));
14772: Const('CS7fix','LongWord')( $0000020);
14773: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long'
14774:   + 'int; wReserved : Word; XonLim : Word; XoffLim : Word; ByteSize : Byte; Par'
14775:   + 'ity : Byte; StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : '
14776:   + 'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14777: //AddTypeS('PDCB', '^TDCB // will not work');
14778: //Const('MaxRates','LongInt'( 18);
14779: //Const('MaxRates','LongInt'( 30);
14780: //Const('MaxRates','LongInt'( 19);
14781: Const('O_SYNC','LongWord')( $0080);
14782: Const('synOK','LongInt'( 0);
14783: Const('synErr','LongInt'( integer ( - 1 )));
14784: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
14785:   HR_WriteCount, HR_Wait )');
14786: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string));
14787: SIRegister_ESynaSerError(CL);
14788: SIRegister_TBlockSerial(CL);
14789: Function GetSerialPortNames : string;
14790: end;
14791: procedure SIRegister_synaicnv(CL: TPSPPascalCompiler);
14792: begin
14793: Const('DLLIconvName','String 'libiconv.so');
14794: Const('DLLIconvName','String 'iconv.dll');
14795: AddTypeS('size_t','Cardinal');
14796: AddTypes('iconv_t','Integer');
14797: //AddTypeS('iconv_t','Pointer');
14798: AddTypeS('argptr','iconv_t');
14799: Function SynalIconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14800: Function SynalIconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14801: Function SynalIconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14802: Function SynalIconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14803: Function SynalIconvClose( var cd : iconv_t) : integer';
14804: Function SynalIconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14805: Function IsIconvloaded : Boolean';
14806: Function InitIconvInterface : Boolean';
14807: Function DestroyIconvInterface : Boolean';
14808: Const('ICONV_TRIVIALP','LongInt'( 0);
14809: Const('ICONV_GET_TRANSLITERATE','LongInt'( 1);
14810: Const('ICONV_SET_TRANSLITERATE','LongInt'( 2);
14811: Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3);
14812: Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4);
14813: end;
14814:
14815: procedure SIRegister_pingsend(CL: TPSPPascalCompiler);
14816: begin
14817: Const 'ICMP_ECHO','LongInt'( 8);
14818: Const ('ICMP_ECHOREPLY','LongInt'( 0);
14819: Const ('ICMP_UNREACH','LongInt'( 3);
14820: Const ('ICMP_TIME_EXCEEDED','LongInt'( 11);
14821: Const ('ICMP6_ECHO','LongInt'( 128);
14822: Const ('ICMP6_ECHOREPLY','LongInt'( 129);
14823: Const ('ICMP6_UNREACH','LongInt'( 1);
14824: Const ('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14825: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOut'
14826:   + 'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14827: SIRegister_TPINGSend(CL);
14828: Function PingHost( const Host : string) : Integer';
14829: Function TraceRouteHost( const Host : string) : string';

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14830: end;
14831:
14832: procedure SIRegister_asnlutil(CL: TPSPascalCompiler);
14833: begin
14834:   AddConstantN('synASN1_BOOL','LongWord')( $01);
14835:   Const('synASN1_INT','LongWord')( $02);
14836:   Const('synASN1_OCTSTR','LongWord')( $04);
14837:   Const('synASN1_NULL','LongWord')( $05);
14838:   Const('synASN1_OBJID','LongWord')( $06);
14839:   Const('synASN1_ENUM','LongWord')( $0a);
14840:   Const('synASN1_SEQ','LongWord')( $30);
14841:   Const('synASN1_SETOF','LongWord')( $31);
14842:   Const('synASN1_IPADDR','LongWord')( $40);
14843:   Const('synASN1_COUNTER','LongWord')( $41);
14844:   Const('synASN1_GAUGE','LongWord')( $42);
14845:   Const('synASN1_TIMETICKS','LongWord')( $43);
14846:   Const('synASN1_OPAQUE','LongWord')( $44);
14847:   Function synASNEncOIDItem( Value : Integer ) : AnsiString');
14848:   Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString ) : Integer');
14849:   Function synASNEncLen( Len : Integer ) : AnsiString');
14850:   Function synASNDecLen( var Start : Integer; const Buffer : AnsiString ) : Integer');
14851:   Function synASNEncInt( Value : Integer ) : AnsiString');
14852:   Function synASNEncUInt( Value : Integer ) : AnsiString');
14853:   Function synASNObject( const Data: AnsiString; ASNTYPE : Integer ) : AnsiString');
14854:   Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14855:   Function synMibToId( Mib : String ) : AnsiString');
14856:   Function synIdToMib( const Id : AnsiString ) : String');
14857:   Function synIntMibToStr( const Value : AnsiString ) : AnsiString');
14858:   Function ASNdump( const Value : AnsiString ) : AnsiString');
14859:   Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings) : Boolean');
14860:   Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString');
14861: end;
14862:
14863: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14864: begin
14865:   Const('cLDAPProtocol','String '389');
14866:   Const('LDAP ASN1_BIND_REQUEST','LongWord')( $60);
14867:   Const('LDAP ASN1_BIND_RESPONSE','LongWord')( $61);
14868:   Const('LDAP ASN1_UNBIND_REQUEST','LongWord')( $42);
14869:   Const('LDAP ASN1_SEARCH_REQUEST','LongWord')( $63);
14870:   Const('LDAP ASN1_SEARCH_ENTRY','LongWord')( $64);
14871:   Const('LDAP ASN1_SEARCH_DONE','LongWord')( $65);
14872:   Const('LDAP ASN1_SEARCH_REFERENCE','LongWord')( $73);
14873:   Const('LDAP ASN1_MODIFY_REQUEST','LongWord')( $66);
14874:   Const('LDAP ASN1_MODIFY_RESPONSE','LongWord')( $67);
14875:   Const('LDAP ASN1_ADD_REQUEST','LongWord')( $68);
14876:   Const('LDAP ASN1_ADD_RESPONSE','LongWord')( $69);
14877:   Const('LDAP ASN1_DEL_REQUEST','LongWord')( $4A);
14878:   Const('LDAP ASN1_DEL_RESPONSE','LongWord')( $6B);
14879:   Const('LDAP ASN1 MODIFYDN_REQUEST','LongWord')( $6C);
14880:   Const('LDAP ASN1 MODIFYDN_RESPONSE','LongWord')( $6D);
14881:   Const('LDAP ASN1_COMPARE_REQUEST','LongWord')( $6E);
14882:   Const('LDAP ASN1_COMPARE_RESPONSE','LongWord')( $6F);
14883:   Const('LDAP ASN1_ABANDON_REQUEST','LongWord')( $70);
14884:   Const('LDAP ASN1_EXT_REQUEST','LongWord')( $77);
14885:   Const('LDAP ASN1_EXT_RESPONSE','LongWord')( $78);
14886:   SIRegister_TLDAPAttribute(CL);
14887:   SIRegister_TLDAPAttributeList(CL);
14888:   SIRegister_TLDAPResult(CL);
14889:   SIRegister_TLDAPResultList(CL);
14890:   AddTypeS('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14891:   AddTypeS('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14892:   AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14893:   SIRegister_TLDAPSend(CL);
14894:   Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString');
14895: end;
14896:
14897:
14898: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14899: begin
14900:   Const('cSysLogProtocol','String '514');
14901:   Const('FCL_Kernel','LongInt'( 0);
14902:   Const('FCL_UserLevel','LongInt'( 1);
14903:   Const('FCL_MailSystem','LongInt'( 2);
14904:   Const('FCL_System','LongInt'( 3);
14905:   Const('FCL_Security','LongInt'( 4);
14906:   Const('FCL_Syslogd','LongInt'( 5);
14907:   Const('FCL_Printer','LongInt'( 6);
14908:   Const('FCL_News','LongInt'( 7);
14909:   Const('FCL_UUCP','LongInt'( 8);
14910:   Const('FCL_Clock','LongInt'( 9);
14911:   Const('FCL_Authorization','LongInt'( 10);
14912:   Const('FCL_FTP','LongInt'( 11);
14913:   Const('FCL_NTP','LongInt'( 12);
14914:   Const('FCL_LogAudit','LongInt'( 13);
14915:   Const('FCL_LogAlert','LongInt'( 14);
14916:   Const('FCL_Time','LongInt'( 15);
14917:   Const('FCL_Local0','LongInt'( 16);
14918:   Const('FCL_Locale1','LongInt'( 17);

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14919: Const ('FCL_Local2', 'LongInt'( 18);
14920: Const ('FCL_Local3', 'LongInt'( 19);
14921: Const ('FCL_Local4', 'LongInt'( 20);
14922: Const ('FCL_Local5', 'LongInt'( 21);
14923: Const ('FCL_Local6', 'LongInt'( 22);
14924: Const ('FCL_Local7', 'LongInt'( 23);
14925: Type(TSyslogSeverity,'(Emergency, Alert, Critical, Error, Warning,Notice,Info,Debug));
14926: SIRegister_TSyslogMessage(CL);
14927: SIRegister_TSyslogSend(CL);
14928: Function ToSysLog(const SyslogServer:string;Facil:Byte;Sever:TSyslogSeverity;const Content:string):Boolean;
14929: end;
14930:
14931:
14932: procedure SIRegister_mimemess(CL: TPSPascalCompiler);
14933: begin
14934:   AddTypeS('TMessPriority', '( MP_unknown, MP_low, MP_normal, MP_high )');
14935:   SIRegister_TMessHeader(CL);
14936: //AddTypeS('TMessHeaderClass', 'class of TMessHeader');
14937:   SIRegister_TMimeMess(CL);
14938: end;
14939:
14940: procedure SIRegister_mimepart(CL: TPSPascalCompiler);
14941: begin
14942:   (FindClass('TOBJECT'), 'TMimePart');
14943:   AddTypeS('THookWalkPart', 'Procedure ( const Sender : TMimePart)');
14944:   AddTypeS('TMimePrimary', '( MP_TEXT, MP_MULTIPART, MP_MESSAGE, MP_BINARY )');
14945:   AddTypeS('TMimeEncoding', '( ME_7BIT, ME_8BIT, ME_QUOTED_PRINTABLE, ME_BASE64, ME_UU, ME_XX )');
14946:   SIRegister_TMimePart(CL);
14947: Const ('MaxMimeType', 'LongInt'( 25);
14948: Function GenerateBoundary : string');
14949: end;
14950:
14951: procedure SIRegister_mimeinln(CL: TPSPascalCompiler);
14952: begin
14953:   Function InlineDecode( const Value : string; CP : TMimeChar) : string';
14954:   Function InlineEncode( const Value : string; CP, MimeP : TMimeChar) : string');
14955:   Function NeedInline( const Value : AnsiString) : boolean');
14956:   Function InlineCodeEx( const Value : string; FromCP : TMimeChar) : string');
14957:   Function InlineCode( const Value : string) : string');
14958:   Function InlineEmailEx( const Value : string; FromCP : TMimeChar) : string');
14959:   Function InlineEmail( const Value : string) : string');
14960: end;
14961:
14962: procedure SIRegister_ftpsend(CL: TPSPascalCompiler);
14963: begin
14964: Const ('cFtpProtocol', 'String '21');
14965: Const ('cFtpDataProtocol', 'String '20');
14966: Const ('FTP_OK', 'LongInt'( 255);
14967: Const ('FTP_ERR', 'LongInt'( 254);
14968: AddTypeS('TFTPStatus', 'Procedure ( Sender : TObject; Response : Boolean; const Value : string)');
14969: SIRegister_TFTPListRec(CL);
14970: SIRegister_TFTPList(CL);
14971: SIRegister_TFTPSend(CL);
14972: Function FtpGetFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14973: Function FtpPutFile( const IP, Port, FileName, LocalFile, User, Pass : string) : Boolean';
14974: Function FtpInterServerTransfer(const FromIP,FromPort,FromFile,FromUser,FromPass : string; const ToIP,
ToPort,ToFile,ToUser,ToPass : string) : Boolean';
14975: end;
14976:
14977: procedure SIRegister_httpsend(CL: TPSPascalCompiler);
14978: begin
14979: Const ('cHttpProtocol', 'String '80');
14980: AddTypeS('TTransferEncoding', '( TE_UNKNOWN, TE_IDENTITY, TE_CHUNKED )');
14981: SIRegister_THTTPSend(CL);
14982: Function HttpGetText( const URL : string; const Response : TStrings) : Boolean';
14983: Function HttpGetBinary( const URL : string; const Response : TStream) : Boolean';
14984: Function HttpPostBinary( const URL : string; const Data : TStream) : Boolean';
14985: Function HttpPostURL( const URL, URLData : string; const Data : TStream) : Boolean';
14986: Function HttpPostfile(const URL,FieldName,FileName:string;const Data:TStream;const ResultData:TStrings):Bool;
14987: end;
14988:
14989: procedure SIRegister_smtpsend(CL: TPSPascalCompiler);
14990: begin
14991: Const ('cSmtpProtocol', 'String '25');
14992: SIRegister_TSMTSPSend(CL);
14993: Function SendToRaw(const MailFr,MailTo,SMTPHost:string;const MailData:TStrings;const Usrname,
Passw:string):Bool;
14994: Function SendTo(const MailFrom,MailTo,Subject,SMTPHost:string;const MailData:TStrings):Boolean;
14995: Function SendToEx(const MailFrom, MailTo, Subject, SMTPHost : string; const MailData : TStrings; const
Usrname, Password : string):Boolean';
14996: end;
14997:
14998: procedure SIRegister_snmpsend(CL: TPSPascalCompiler);
14999: begin
15000: Const ('cSnmpProtocol', 'String '161');
15001: Const ('cSnmpTrapProtocol','String '162');
15002: Const ('SNMP_V1','LongInt'( 0);

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15003: Const('SNMP_V2C','LongInt')( 1);
15004: Const('SNMP_V3','LongInt')( 3);
15005: Const('PDUGetRequest','LongWord')( $A0);
15006: Const('PDUGetNextRequest','LongWord')( $A1);
15007: Const('PDUGetResponse','LongWord')( $A2);
15008: Const('PDUSetRequest','LongWord')( $A3);
15009: Const('PDUTrap','LongWord')( $A4);
15010: Const('PDUGetBulkRequest','LongWord')( $A5);
15011: Const('PDUInformRequest','LongWord')( $A6);
15012: Const('PDUTrapV2','LongWord')( $A7);
15013: Const('PDUReport','LongWord')( $A8);
15014: Const('ENOError',LongInt 0);
15015: Const('ETooBig','LongInt')( 1);
15016: Const('ENoSuchName','LongInt')( 2);
15017: Const('EBadValue','LongInt')( 3);
15018: Const('EReadOnly','LongInt')( 4);
15019: Const('EGenErr','LongInt')( 5);
15020: Const('ENoAccess','LongInt')( 6);
15021: Const('EWrongType','LongInt')( 7);
15022: Const('EWrongLength','LongInt')( 8);
15023: Const('EWrongEncoding','LongInt')( 9);
15024: Const('EWrongValue','LongInt')( 10);
15025: Const('ENoCreation','LongInt')( 11);
15026: Const('EInconsistentValue','LongInt')( 12);
15027: Const('EResourceUnavailable','LongInt')( 13);
15028: Const('ECommitFailed','LongInt')( 14);
15029: Const('EUndoFailed','LongInt')( 15);
15030: Const('EAutorizationError','LongInt')( 16);
15031: Const('ENotWritable','LongInt')( 17);
15032: Const('EInconsistentName','LongInt')( 18);
15033: AddTypes('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15034: AddTypes('TV3Auth', '( AuthMD5, AuthSHA1 )');
15035: AddTypes('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15036: SIRegister_TSNSMPMib(CL);
15037: AddTypes('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
15038:           +'EngineTime : integer; EngineStamp : Cardinal; end');
15039: SIRegister_TSNSMPRec(CL);
15040: SIRegister_TSNSMPSend(CL);
15041: Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString ) : Boolean';
15042: Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer ) : Boolean';
15043: Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15044: Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings) : Boolean;
15045: Function SNMPGetTableElement(const BaseOID,RowID,Colid,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15046: Function SendTrap(const Dest,Source,Enterprise,Community : AnsiString; Generic, Specific, Seconds : Integer;
15047:           const MIBName, MIBValue : AnsiString; MIBtype : Integer );
15048: Function RecvTrap(var Dest,Source,Enterprise,Community: AnsiString; var Generic, Specific, Seconds : Integer;
15049:           const MIBName, MIBValue : TStringList ) : Integer');
15050: begin
15051:   begin
15052:     Function GetDomainName2: AnsiString );
15053:     Function GetDomainController( Domain : AnsiString ) : AnsiString );
15054:     Function GetDomainUsers( Controller : AnsiString ) : AnsiString );
15055:     Function GetDomainGroups( Controller : AnsiString ) : AnsiString );
15056:     Function GetDateTime( Controller : AnsiString ) : TDateTime );
15057:     Function GetFullName2( Controller, UserID : AnsiString ) : AnsiString );
15058:   end;
15059:
15060: procedure SIRegister_NetWork(CL: TPSPascalCompiler);
15061: begin
15062:   AddTypes('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15063:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM)';
15064:   Function wwStrToDate( const S : string ) : boolean';
15065:   Function wwStrToTime( const S : string ) : boolean';
15066:   Function wwStrToDateTime( const S : string ) : boolean');
15067:   Function wwStrToTimeVal( const S : string ) : TDateTime );
15068:   Function wwStrToDateVal( const S : string ) : TDateTime );
15069:   Function wwStrToDateTimeVal( const S : string ) : TDateTime );
15070:   Function wwStrToInt( const S : string ) : boolean');
15071:   Function wwStrToFloat( const S : string ) : boolean');
15072:   Function wwGetDateOrder( const DateFormat : string ) : TwwDateOrder );
15073:   Function wwNextDay( Year, Month, Day : Word ) : integer );
15074:   Function wwPriorDay( Year, Month, Day : Word ) : integer );
15075:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime ) : Boolean';
15076:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime ) : Boolean';
15077:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15078:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string ) : TwwDateTimeSelection );
15079:   Function wwScanDate( const S : string; var Date : TDateTime ) : Boolean');
15080:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer ) : Boolean');
15081:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool);
15082:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean');
15083: end;
15084:
15085: unit uPSI_Themes;
15086: Function ThemeServices : TThemeServices );
15087: Function ThemeControl( AControl : TControl ) : Boolean');
15088: Function UnthemedDesigner( AControl : TControl ) : Boolean');
15089: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);

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15090: begin
15091:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String');
15092: end;
15093: Unit uPSC_menus;
15094:   Function StripHotkey( const Text : string ) : string');
15095:   Function GetHotkey( const Text : string ) : string');
15096:   Function AnsiSameCaption( const Text1, Text2 : string ) : Boolean');
15097:   Function IsAltGRPressed : boolean');
15098:
15099: procedure SIRегистер_IdIMAP4Server(CL: TPSPPascalCompiler);
15100: begin
15101:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15102:   SIRегистер_TIdIMAP4Server(CL);
15103: end;
15104:
15105: procedure SIRегистер_VariantSymbolTable(CL: TPSPPascalCompiler);
15106: begin
15107:   'HASH_SIZE', 'LongInt'( 256 );
15108:   CL.FindClass('TOBJECT'), 'EVariantSymbolTable');
15109:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15110:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15111:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15112:     +' : Integer; Value : Variant; end');
15113:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15114:   SIRегистер_TVariantSymbolTable(CL);
15115: end;
15116:
15117: procedure SIRегистер_udf_glob(CL: TPSPPascalCompiler);
15118: begin
15119:   SIRегистер_TThreadLocalVariables(CL);
15120:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD ) : PChar');
15121:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD ) : PISC_QUAD';
15122:   Function ThreadLocals : TThreadLocalVariables');
15123:   Procedure WriteDebug( sz : String)');
15124:   CL.AddConstantN('UDF_SUCCESS', 'LongInt'( 0 );
15125:   'UDF_FAILURE', 'LongInt'( 1 );
15126:   'cSignificantlyLarger', 'LongInt'( 1024 * 4 );
15127:   CL.AddTypeS('mTByteArray', 'array of byte;');
15128:   function ChangeOEPFromBytes(bFile:mTByteArray):Boolean;
15129:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15130:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTTarget: string);
15131:   function IsNetworkConnected: Boolean;
15132:   function IsInternetConnected: Boolean;
15133:   function IsCOMConnected: Boolean;
15134:   function IsNetworkOn: Boolean;
15135:   function IsInternetOn: Boolean;
15136:   function IsCOMON: Boolean;
15137:   Function SetTimer(hWnd : HWND; nIDEEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15138:   Function KillTimer( hWnd : HWND; uIDEEvent : UINT ) : BOOL';
15139:   Function wIsWindowUnicode( hWnd : HWND ) : BOOL';
15140:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL';
15141:   Function wIsWindowEnabled( hWnd : HWND ) : BOOL';
15142:   Function GetMenu( hWnd : HWND ) : HMENU');
15143:   Function SetMenu( hWnd : HWND; hMenu : HMENU ) : BOOL';
15144: end;
15145:
15146: procedure SIRегистер_SockTransport(CL: TPSPPascalCompiler);
15147: begin
15148:   SIRегистер_IDataBlock(CL);
15149:   SIRегистер_ISendDataBlock(CL);
15150:   SIRегистер_ITransport(CL);
15151:   SIRегистер_TDataBlock(CL);
15152:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15153:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15154:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15155:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15156:   SIRегистер_TCUSTOMDataBlockInterpreter(CL);
15157:   SIRегистер_TSsendDataBlock(CL);
15158:   'CallSig', 'LongWord')( $D800 );
15159:   'ResultsSig', 'LongWord')( $D400 );
15160:   'asMask', 'LongWord')( $00FF );
15161:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15162:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15163:   Procedure CheckSignature( Sig : Integer );
15164: end;
15165:
15166: procedure SIRегистер_WinInet(CL: TPSPPascalCompiler);
15167: begin
15168:   //CL.AddTypeS('HINTERNET', '__Pointer');
15169:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15170:   CL.AddTypeS('HINTERNET', 'Integer');
15171:   CL.AddTypeS('HINTERNET2', '__Pointer');
15172:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');
15173:   //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15174:   CL.AddTypeS('INTERNET_PORT', 'Word');
15175:   //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15176:   //CL.AddTypeS('LPINTERNET_PORT', 'PINTERNET_PORT');
15177:   Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD):BOOL;
15178:   'INTERNET_RFC1123_FORMAT', 'LongInt'( 0 );

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15179: 'INTERNET_RFC1123_BUFSIZE','LongInt'( 30);
15180: Function InternetCrackUrl(lpszUrl:PChar; dwUrlLength,dwFlags:DWORD; var
lpUrlComponents:TURLComponents):BOOL;
15181: Function InternetCreateUrl(var lpUrlComponents:TURLComponents;dwFlags:DWORD;lpszUrl:PChar;var
dwUrlLength:DWORD):BOOL;
15182: Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15183: Function
InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;
lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15184: Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD
;dwContext:DWORD):HINTERNET;
15185: Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy,
lpszProxBypass:PChar;dwFlags:DWORD):HINTERNET;
15186: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,
dwContext:DWORD):BOOL;
15187: Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15188: Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15189: Function InternetHangUp( dwConnection : DWORD; dwReserved : DWORD ) : DWORD';
15190: Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15191: Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15192: Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15193: Function InternetGetConnectedstate( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15194: Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var
lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15195: Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var
lpdwBufferLength : 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 InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,
dwContext:DWORD):BOOL;
15198: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData :
TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET';
15199: Function WFtpGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists :
BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL';
15200: Function
WFtpPutFile(hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15201: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL';
15202: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15203: Function
FtpOpenFile(hConnect:HINTER;lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15204: Function Ftp.CreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15205: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15206: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar ) : BOOL';
15207: Function FtpGetCurrentdirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15208: Function
FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommd:PChar;dwContxt:DWORD):BOOL;
15209: Function IS_GOPHER_FILE( GopherType : DWORD ) : BOOL';
15210: Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL';
15211: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL';
15212: Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL';
15213: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL';
15214: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL';
15215: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL';
15216: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL';
15217: Function IS_GOPHER_ASK( GopherType : DWORD ) : BOOL';
15218: Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL';
15219: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL';
15220: Function
GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:
PChar; dwGopherType:DWORD;lpszLocator:PChar; var lpdwBufferLength:DWORD):BOOL;
15221: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15222: Function
GopherOpenFile(hConect:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15223: Function HttpOpenRequest( hConnect:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion :
PChar; lpszReferrer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15224: Function
HttpAddRequestHeaders(hReg:HINTERNET;lpszHeaders:PChar;dwHeadersLength:DWORD;dwModifiers:DWORD):BOOL;
15225: Function HttpSendRequest(hRequest: HINTERNET; lpszHeaders : PChar;
dwHeadersLength:DWORD;lpoOptional:Tobject; dwOptionalLength:DWORD):BOOL;
15226: Function
InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15227: Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD';
15228: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15229: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15230: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL ) : DWORD';
15231: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject ) : Int64';
15232: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject ) : Bool';
15233: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var
lpFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15234: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var
lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15235: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15236: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR):BOOL;
15237: Function
InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlgs:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15238: Function InternetSetDialState( lpszConnectoid : PChar; dwState : DWORD; dwReserved: DWORD ) : BOOL';
15239: end;
15240: procedure SIRegister_Wwstr(CL: TPSPascalCompiler);

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15244: begin
15245:   AddTypeS('strCharSet', 'set of char');
15246:   TwwGetWordOption,'(wwgwSkipLeadingBlanks, wwgwQuotesAsWords,wwgwStripQuotes , wwgwSpacesInWords);
15247:   AddTypes('TwwGetWordOptions', 'set of TwwGetWordOption');
15248:   Procedure strStripApart( s : string; delimiter : string; parts : TStrings)' );
15249:   Function strGetToken( s : string; delimiter : string; var APos : integer ) : string');
15250:   Procedure strStripPreceding( var s : string; delimiter : strCharSet)' );
15251:   Procedure strStripTrailing( var s : string; delimiter : strCharSet)' );
15252:   Procedure strStripWhiteSpace( var s : string)';
15253:   Function strRemoveChar( str : string; removeChar : char ) : string');
15254:   Function wwstrReplaceChar( str : string; removeChar, replaceChar : char ) : string');
15255:   Function strReplaceCharWithStr( str : string; removeChar : char; replaceStr : string ) : string');
15256:   Function wwEqualStr( s1, s2 : string ) : boolean');
15257:   Function strCount( s : string; delimiter : char ) : integer');
15258:   Function strWhiteSpace : strCharSet');
15259:   Function wwExtractFileNameOnly( const FileName : string ) : string');
15260:   Function wwGetWord(s:string; var APos:integer; Options:TwwGetWordOptions;DelimSet:strCharSet):string;
15261:   Function strTrailing( s : string; delimiter : char ) : string');
15262:   Function strPreceding( s : string; delimiter : char ) : string');
15263:   Function wwstrReplace( s, Find, Replace : string ) : string');
15264: end;
15265:
15266: procedure SIRegister_DataBkr(CL: TPSPascalCompiler);
15267: begin
15268:   SIRegister_TRemoteDataModule(CL);
15269:   SIRegister_TCRremoteDataModule(CL);
15270:   Procedure RegisterPooled( const ClassID : string; Max, Timeout : Integer; Singleton : Boolean)' );
15271:   Procedure UnregisterPooled( const ClassID : string)' );
15272:   Procedure EnableSocketTransport( const ClassID : string)' );
15273:   Procedure DisableSocketTransport( const ClassID : string)' );
15274:   Procedure EnableWebTransport( const ClassID : string)' );
15275:   Procedure DisableWebTransport( const ClassID : string)' );
15276: end;
15277:
15278: procedure SIRegister_Mathbox(CL: TPSPascalCompiler);
15279: begin
15280:   Function mxArcCos( x : Real ) : Real';
15281:   Function mxArcSin( x : Real ) : Real';
15282:   Function Comp2Str( N : Comp ) : String');
15283:   Function Int2StrPad0( N : LongInt; Len : Integer ) : String');
15284:   Function Int2Str( N : LongInt ) : String');
15285:   Function mxIsEqual( R1, R2 : Double ) : Boolean');
15286:   Function LogXY( x, y : Real ) : Real');
15287:   Function Pennies2Dollars( C : Comp ) : String');
15288:   Function mxPower( X : Integer; Y : Integer ) : Real');
15289:   Function Real2Str( N : Real; Width, Places : integer ) : String');
15290:   Function mxStr2Comp( MyString : string ) : Comp');
15291:   Function mxStr2Pennies( S : String ) : Comp');
15292:   Function Str2Real( MyString : string ) : Real');
15293:   Function XToThey( x, y : Real ) : Real');
15294: end;
15295:
15296: //*****Cindy Functions!*****
15297: procedure SIRegister_cyIndy(CL: TPSPascalCompiler);
15298: begin
15299:   CL.AddTypeS('TContentTypeMessage', '( cmPlainText, cmPlainText_Attach, cmHtml'
15300:     +'__Attach, cmHtml_RelatedAttach, cmAlterText_Html, cmAlterText_Html_Attach,
15301:     +'cmAlterText_Html_RelatedAttach,cmAlterText_Html_Attach_RelatedAttach,cmReadNotification )');
15302:   MessagePlainText,'String 'text/plain')';
15303:   CL.AddConstantN('MessagePlainText_Attach','String 'multipart/mixed');
15304:   MessageAlterText_Html,'String 'multipart/alternative)';
15305:   MessageHtml_Attach,'String 'multipart/mixed)';
15306:   MessageHtml_RelatedAttach,'String 'multipart/related; type="text/html")';
15307:   MessageAlterText_Html_Attach,'String 'multipart/mixed)';
15308:   MessageAlterText_Html_RelatedAttach,'String 'multipart/related;type="multipart/alternative"';
15309:   MessageAlterText_Html_Attach_RelatedAttach,'String 'multipart/mixed)';
15310:   MessageReadNotification,'String '(.('multipart/report; report-type="disposition-notification"';
15311:   Function ForceDecodeHeader( aHeader : String ) : String');
15312:   Function Base64_EncodeString( Value : String; const aEncoding : TEncoding ) : string');
15313:   Function Base64_DecodeToString( Value : String; const aBytesEncoding : TEncoding ) : String');
15314:   Function Base64_DecodeToBytes( Value : String ) : TBytes)';
15315:   Function IdHttp_DownloadFile(aSrcUrlFile,aDestFile:String;const OnWorkEvent:TWorkEvent):Boolean;
15316:   Function Get_MD5( const aFileName : string ) : string');
15317:   Function Get_MD5FromString( const aString : string ) : string');
15318: end;
15319:
15320: procedure SIRegister_cySysUtils(CL: TPSPascalCompiler);
15321: begin
15322:   Function IsFolder( SRec : TSearchrec ) : Boolean';
15323:   Function isFolderReadOnly( Directory : String ) : Boolean');
15324:   Function DirectoryIsEmpty( Directory : String ) : Boolean');
15325:   Function DirectoryWithSubDir( Directory : String ) : Boolean');
15326:   Procedure GetSubDirs( FromDirectory : String; aList : TStrings)' );
15327:   Function DiskFreeBytes( Drv : Char ) : Int64';
15328:   Function DiskBytes( Drv : Char ) : Int64';
15329:   Function GetFileBytes( Filename : String ) : Int64';
15330:   Function GetFilesBytes( Directory, Filter : String ) : Int64';
15331:   SE_CREATE_TOKEN_NAME,'String 'SeCreateTokenPrivilege)';
15332:   SE_ASSIGNPRIMARYTOKEN_NAME,'String 'SeAssignPrimaryTokenPrivilege)');

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15333: SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege');
15334: SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege');
15335: SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege');
15336: SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege');
15337: SE_TCB_NAME', 'String 'SeTcbPrivilege');
15338: SE_SECURITY_NAME', 'String 'SeSecurityPrivilege');
15339: SE TAKE OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege');
15340: SE LOAD DRIVER_NAME', 'String 'SeLoadDriverPrivilege');
15341: SE SYSTEM PROFILE_NAME', 'String 'SeSystemProfilePrivilege');
15342: SE SYSTEMTIME NAME', 'String 'SeSystemtimePrivilege');
15343: SE PROF SINGLE PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege');
15344: SE INC BASE PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege');
15345: SE CREATE PAGEFILE NAME', 'String 'SeCreatePagefilePrivilege');
15346: SE CREATE PERMANENT NAME', 'String 'SeCreatePermanentPrivilege');
15347: SE BACKUP NAME', 'String 'SeBackupPrivilege');
15348: SE RESTORE NAME', 'String 'SeRestorePrivilege');
15349: SE SHUTDOWN NAME', 'String 'SeShutdownPrivilege');
15350: SE DEBUG NAME', 'String 'SeDebugPrivilege');
15351: SE AUDIT NAME', 'String 'SeAuditPrivilege');
15352: SE SYSTEM ENVIRONMENT NAME', 'String 'SeSystemEnvironmentPrivilege');
15353: SE CHANGE NOTIFY NAME', 'String 'SeChangeNotifyPrivilege');
15354: SE REMOTE SHUTDOWN NAME', 'String 'SeRemoteShutdownPrivilege');
15355: SE UNDOCK NAME', 'String 'SeUndockPrivilege');
15356: SE SYNC AGENT NAME', 'String 'SeSyncAgentPrivilege');
15357: SE ENABLE DELEGATION NAME', 'String 'SeEnableDelegationPrivilege');
15358: SE MANAGE VOLUME NAME', 'String 'SeManageVolumePrivilege');
15359: end;
15360:
15361:
15362: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15363: begin
15364:   Type(TWindowsVersion', '( vvUnknown, vvWin31, vvWin95, vvWin98, vvWin'
15365:     + 'Me, vvWinNt3, vvWinNt4, vvWin2000, vvWinXP, vvWinVista, vvWin7, vvWin8, vvWin8_Or_Upper )');
15366:   Function ShellGetExtensionName( FileName : String ) : String';
15367:   Function ShellGetIconIndex( FileName : String ) : Integer';
15368:   Function ShellGetIconHandle( FileName : String ) : HIcon';
15369:   Procedure ShellThreadCopy( App_Handle : THandle; fromFile : string; toFile : string );
15370:   Procedure ShellThreadMove( App_Handle : THandle; fromFile : string; toFile : string );
15371:   Procedure ShellRenameDir( DirFrom, DirTo : string );
15372:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15373:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15374:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String );
15375:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string );
15376:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
      WaitCloseCompletion : boolean) : Boolean';
15377:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer );
15378:   Function RemoveDuplicatedPathDelimiter( Str : String ) : String';
15379:   Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime';
15380:   Function GetModificationDate( Filename : String ) : TDateTime';
15381:   Function GetCreationDate( Filename : String ) : TDateTime';
15382:   Function GetLastAccessDate( Filename : String ) : TDateTime';
15383:   Function FileDelete( Filename : String ) : Boolean';
15384:   Function FileIsOpen( Filename : string ) : boolean';
15385:   Procedure FilesDelete( FromDirectory : String; Filter : ShortString );
15386:   Function DirectoryDelete( Directory : String ) : Boolean';
15387:   Function GetPrinters( PrintersList : TStrings ) : Integer';
15388:   Procedure SetDefaultPrinter( PrinterName : String );
15389:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer );
15390:   Function WinToDosPath( WinPathName : String ) : String';
15391:   Function DosToWinPath( DosPathName : String ) : String';
15392:   Function cyGetWindowsVersion : TWindowsVersion';
15393:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean';
15394:   Procedure WindowsShutDown( Restart : boolean );
15395:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
      FileIcon:string;NumIcone:integer);
15396:   Procedure GetWindowsFonts( FontsList : TStrings );
15397:   Function GetAvailableFilename( DesiredFileName : String ) : String';
15398: end;
15399:
15400: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15401: begin
15402:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15403:   Type(TStrLocateOptions', 'set of TStrLocateOption');
15404:   Type(TStringRead', '( srFromLeft, srFromRight )');
15405:   Type(TStringReads', 'set of TStringRead');
15406:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15407:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15408:   Type(TWordsOptions', 'set of TWordsOption');
15409:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15410:   Type(TCarTypes', 'set of TCarType');
15411:   //CL.AddTypes('TUnicodeCategories', 'set of TUnicodeCategory');
15412:   CharTypeAlphabetic', 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15413:   Function Char_GetType( aChar : Char ) : TCarType';
15414:   Function SubString_Count( Str : String; Separator : Char ) : Integer';
15415:   Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15416:   Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word ) : String';
15417:   Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word ) : Integer';
15418:   Procedure SubString_Add( var Str : String; Separator : Char; Value : String );
15419:   Procedure SubString_Insert(var Str:String;Separator:Char; SubStringIndex:Word; Value : String );

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15420: Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word; NewValue : String');
15421: Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15422: Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15423: Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer):String';
15424: Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15425: Function String_Quote( Str : String ) : String';
15426: Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char ) : Char';
15427: Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15428: Function String_GetWord( Str : String; StringRead : TStringRead ) : String';
15429: Function String_GetInteger( Str : String; StringRead : TStringRead ) : String';
15430: Function StringToInt( Str : String ) : Integer';
15431: Function String_Uppercase( Str : String; Options : TWordsOptions ) : String';
15432: Function String_Lowercase( Str : String; Options : TWordsOptions ) : String';
15433: Function String_Reverse( Str : String ) : String';
15434: Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15435: Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive : TCaseSensitive):Integer';
15436: Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String';
15437: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15438: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive ) : String';
15439: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String';
15440: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive ) : String';
15441: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads ) : String';
15442: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer ) : String';
15443: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15444: Function String_End( Str : String; Cars : Word ) : String';
15445: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean ) : String';
15446: Function String_SubstCar( Str : String; Old, New : Char ) : String';
15447: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive ) : Integer';
15448: Function String_SameCars(Str1,Str2:String;StopCount_IfDifferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15449: Function String_IsNumbers( Str : String ) : Boolean';
15450: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer ) : Integer';
15451: Function StringToCsvCell( aStr : String ) : String';
15452: end;
15453;
15454: procedure SIRegister_cyDateUtils(CL: TPSPascalCompiler);
15455: begin
15456:   Function LongDayName( aDate : TDate ) : String';
15457:   Function LongMonthName( aDate : TDate ) : String';
15458:   Function ShortYearOf( aDate : TDate ) : byte';
15459:   Function DateToStrYYYYMMDD( aDate : TDate ) : String';
15460:   Function StrYYYYMMDDToDate( aStr : String ) : TDate';
15461:   Function SecondsToMinutes( Seconds : Integer ) : Double';
15462:   Function MinutesToSeconds( Minutes : Double ) : Integer';
15463:   Function MinutesToHours( Minutes : Integer ) : Double';
15464:   Function HoursToMinutes( Hours : Double ) : Integer';
15465:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime';
15466:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer );
15467:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime';
15468:   Function GetMinutesBetween( DateTimel, DateTime2 : TDateTime ) : Int64';
15469:   Function GetMinutesBetween1(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15470:   Function GetSecondsBetween( DateTimel, DateTime2 : TDateTime ) : Int64';
15471:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
Rs1tBegin:TDateTime; Rs1tEnd : TDateTime) : Boolean';
15472:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15473:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean';
15474: end;
15475;
15476: procedure SIRegister_cyObjUtils(CL: TPSPascalCompiler);
15477: begin
15478:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15479:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15480:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15481:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15482:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer';
15483:   Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer';
15484:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer';
15485:   Procedure StringsReplace(aList:TStrings;OldStr:String; NewStr:String;ValueKind : TStringsValueKind)');
15486:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15487:   Function TreeNodeLocate( ParentNode : TTreeNode; Value : String ) : TTreeNode';
15488:   Function TreeNodeLocateOnLevel( TreeView : TTreeView; OnLevel : Integer; Value : String ) : TTreeNode';
15489:   Function
TreeNodeGetChildFromIndex(TreeView:TTreeView;ParentNode:TTreeNode;ChildIndex:Integer):TTreeNode';
15490:   Function TreeNodeGetParentOnLevel( ChildNode : TTreeNode; ParentLevel : Integer ) : TTreeNode';
15491:   Procedure TreeNodeCopy(FromNode:TTreeNode;ToNode:TTreeNode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15492:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormattedString : String );
15493:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15494:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl';
15495:   Procedure cyCenterControl( aControl : TControl );
15496:   Function GetLastParent( aControl : TControl ) : TWinControl';
15497:   Function GetControlBitmap( aControl : TWinControl ) : TBitmap';
15498:   Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap';
15499: end;
15500;
15501: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15502: begin

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15503: Function TablePackTable( Tab : TTable ) : Boolean';
15504: Function TableRegenIndexes( Tab : TTable ) : Boolean';
15505: Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean';
15506: Function TableUndeleteRecord( Tab : TTable ) : Boolean';
15507: Function TableAddIndex( Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15508: Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean';
15509: Function TableEmptyTable( Tab : TTable ) : Boolean';
15510: Function TableFindKey( aTable : TTable; Value : String ) : Boolean';
15511: Procedure TableFindNearest( aTable : TTable; Value : String );
15512: Function
  TableCreate(Owner:TComponent; DataBaseName:ShortString;TableName:String;IndexName:ShortString;ReadOnly :
  Boolean):TTable;
15513: Function
  TableOpen( Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool ):Bool;
15514: Function DateToBDESQLODate( aDate : TDate; const DateFormat : String ) : String';
15515: end;
15516:
15517: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15518: begin
15519:   SIRegister_TcyRunTimeDesign(CL);
15520:   SIRegister_TcyShadowText(CL);
15521:   SIRegister_TcyBgPicture(CL);
15522:   SIRegister_TcyGradient(CL);
15523:   SIRegister_TcyBevel(CL);
15524: //CL.AddTypeS('TcyBevelClass', 'class of tcyBevel');
15525:   SIRegister_TcyBevels(CL);
15526:   SIRegister_TcyImagelistOptions(CL);
15527:   Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15528: end;
15529:
15530: procedure SIRegister_cyGraphics(CL: TPSPascalCompiler);
15531: begin
15532:   Procedure cyGradientFill( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor;
  adgradOrientation : TdgradOrientation; Balance, AngleDegree : Word; balanceMode : TDgradBalanceMode;
  Maxdegree : Byte );
15533:     SpeedPercent : Integer; const AngleClipRect : Boolean; const AngleBuffer : TBitmap );
15534:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad : byte);
15535:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrad:byte);
15536:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
  Byte; toRect : TRect; OrientationShape : TDgradOrientationShape );
15537:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrad :
  Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap );
15538:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer );
15539:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15540:   Procedure cyFrame1( Canvas : TCanvas; var InsideRect : TRect; LeftColor, TopColor, RightColor,
  BottomColor : TColor; const Width : Integer; const RoundRect : boolean );
15541:   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:boolean;
15542:   Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
  aState : TButtonState; Focused, Hot : Boolean );
15543:   Procedure cyDrawButton(Canvas:TCanvas;Caption:String;ARect:TRect;GradientColor1,GradientColor2:TColor;
  aState : TButtonState; Focused, Hot : Boolean );
15544:   Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 :
  TColor; aState : TButtonState; Focused, Hot : Boolean );
15545:   Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
  GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean );
15546:   Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
  const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor );
15547:   Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
  TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer );
15548:   Function DrawTextFormatFlags(aTextFormat:LongInt;Alignment
  TAlignment;Layout:TTextLayout;WordWrap:Boolean):LongInt;
15549:   Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
  WordWrap : Boolean; CaptionRender : TCaptionRender : LongInt );
15550:   Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt );
15551:   Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont;
15552:   Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont;
15553:   Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
  CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout );
15554:   Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
  Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord;
15555:   Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
  Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord;
15556:   Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ) : boolean';
15557:   Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean';
15558:   Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean';
15559:   Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean';
15560:   Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );
15561:   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);
15562:   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;
15563:   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 );

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15564: Procedure DrawMosaicPortion( Destination : TCanvas; Portion : TRect; Pattern : TBitmap)'');
15565: Function ValidGraphic( aGraphic : TGraphic ) : Boolean );
15566: Function ColorSetPercentBrightness( Color : TColor; PercentLight : Integer ) : TColor );
15567: Function ColorModify( Color : TColor; incR, incG, incB : Integer ) : TColor );
15568: Function ColorSetPercentContrast( Color : TColor; IncPercent : Integer ) : TColor );
15569: Function ColorSetPercentPale( Color : TColor; IncPercent : integer ) : TColor );
15570: Function MediumColor( Color1, Color2 : TColor ) : TColor );
15571: Function ClientToScreenRect( aControl : TControl; aControlRect : TRect ) : TRect );
15572: Function ScreenToClientRect( aControl : TControl; aScreenRect : TRect ) : TRect );
15573: Function CombineRectKeepingCenterPosition( RectPos, AddRect : TRect ) : TRect );
15574: Procedure InflateRectPercent( var aRect : TRect; withPercent : Double );
15575: Function GetIntermediateRect( Rect1, Rect2 : TRect; Percent : Double ) : TRect );
15576: Function GetProportionalRect( fromRect, InsideRect : TRect ) : TRect );
15577: Function PointInRect( const aPt : TPoint; const aRect : TRect ) : boolean );
15578: Function PointInEllispe( const aPt : TPoint; const aRect : TRect ) : boolean );
15579: Function CanvasAcceleratorTextWidth( aCanvas : TCanvas; aText : String ) : Integer );
15580: end;
15581:
15582: procedure SIRegister_cyTypes(CL: TPPSPascalCompiler);
15583: begin
15584:   Type(TGlyphAlignment', '( gaLeft, gaCenter, gaRight ) ');
15585:   Type(TGlyphLayout', '( glTop, glCenter, glBottom ) ');
15586:   Type(TDdisabledGlyphOptions', '( dgDoNotDraw, dgDrawNormal, dgDrawMonochrome ) ');
15587:   Type(TCaptionRender', '( crNormal, crPathEllipsis, crEndEllipsis, crWordEllipsis ) ');
15588:   Type(TCaptionOrientation', '( coHorizontal, coHorizontalReversed, coVertical, coVerticalReversed ) ');
15589:   Type(TBgPosition', '( bgCentered, bgTopLeft, bgTopCenter, bgTopRight,
15590:     +' bgCenterRight, bgBottomRight, bgBottomCenter, bgBottomLeft, bgCenterLeft ) );
15591:   Type(TBgStyle', '( bgNone, bgNormal, bgMosaic, bgStretch, bgStretchProportional ) );
15592:   Type(TcyBevelCut', '( bcLowered, bcRaised, bcNone, bcTransparent, bcGradientToNext ) );
15593:   Type(TDgradOrientation', '( dgdVertical, dgdHorizontal, dgdAngle, dgdRadial, dgdRectangle ) );
15594:   Type(TDgradOrientationShape', '( osRadial, osRectangle ) );
15595:   Type(TDgradBalanceMode(bmNormal,bmMirror,bmReverse,bmReverseFromColor,bmInvertReverse,
15596:   bmInvertReverseFromColor);
15597:   Type(TRunTimeDesignJob', '( rjNothing, rjMove, rjResizeTop, rjResizeBottom, rjResizeLeft,
15598:   rjResizeTopLeft, rjResizeBottomLeft, rjResizeRight, rjResizeTopRight, rjResizeBottomRight ) );
15599:   Type(TLineCoord', 'record BottomCoord : TPoint; TopCoord : TPoint; end');
15600:   cCaptionOrientationWarning', 'String')('Note that text orientation doesn''t work with all fonts! ');
15601: end;
15600:
15601: procedure SIRegister_WinSvc(CL: TPPSPascalCompiler);
15602: begin
15603:   Const SERVICES_ACTIVE_DATABASEA', 'String 'ServicesActive');
15604:   SERVICES_ACTIVE_DATABASEW', 'String') 'ServicesActive');
15605:   Const SERVICES_ACTIVE_DATABASE', 'String')' SERVICES_ACTIVE_DATABASEA');
15606:   Const SERVICES_FAILED_DATABASEA', 'String' 'ServicesFailed');
15607:   Const SERVICES_FAILED_DATABASEW', 'String' 'ServicesFailed');
15608:   Const SERVICES_FAILED_DATABASE', 'String' 'SERVICES_FAILED_DATABASEA');
15609:   Const SC_GROUP_IDENTIFIERA', 'String') '+' );
15610:   Const SC_GROUP_IDENTIFIERW', 'String') '+' );
15611:   Const SC_GROUP_IDENTIFIER', 'string 'SC_GROUP_IDENTIFIERA');
15612:   Const SERVICE_NO_CHANGE', 'LongWord $FFFFFF');
15613:   Const SERVICE_ACTIVE', 'LongWord')($00000001);
15614:   Const SERVICE_INACTIVE', 'LongWord $00000002);
15615:   Const SERVICE_CONTROL_STOP', 'LongWord $00000001);
15616:   Const SERVICE_CONTROL_PAUSE', 'LongWord $00000002);
15617:   Const SERVICE_CONTROL_CONTINUE', 'LongWord $00000003);
15618:   Const SERVICE_CONTROL_INTERROGATE', 'LongWord $00000004);
15619:   Const SERVICE_CONTROL_SHUTDOWN', 'LongWord $00000005);
15620:   Const SERVICE_STOPPED', 'LongWord $00000001);
15621:   Const SERVICE_START_PENDING', 'LongWord $00000002);
15622:   Const SERVICE_STOP_PENDING', 'LongWord $00000003);
15623:   Const SERVICE_RUNNING', 'LongWord $00000004);
15624:   Const SERVICE_CONTINUE_PENDING', 'LongWord $00000005);
15625:   Const SERVICE_PAUSE_PENDING', 'LongWord $00000006);
15626:   Const SERVICE_PAUSED', 'LongWord $00000007);
15627:   Const SERVICE_ACCEPT_STOP', 'LongWord $00000001);
15628:   Const SERVICE_ACCEPT_PAUSE_CONTINUE', 'LongWord $00000002);
15629:   Const SERVICE_ACCEPT_SHUTDOWN', 'LongWord $00000004);
15630:   Const SC_MANAGER_CONNECT', 'LongWord $0001);
15631:   Const SC_MANAGER_CREATE_SERVICE', 'LongWord $0002;
15632:   Const SC_MANAGER_ENUMERATE_SERVICE', 'LongWord $0004);
15633:   Const SC_MANAGER_LOCK', 'LongWord $0008);
15634:   Const SC_MANAGER_QUERY_LOCK_STATUS', 'LongWord $0010);
15635:   Const SC_MANAGER_MODIFY_BOOT_CONFIG', 'LongWord $0020);
15636:   Const SERVICE_QUERY_CONFIG', 'LongWord $0001);
15637:   Const SERVICE_CHANGE_CONFIG', 'LongWord $0002);
15638:   Const SERVICE_QUERY_STATUS', 'LongWord $0004);
15639:   Const SERVICE_ENUMERATE_DEPENDENTS', 'LongWord $0008);
15640:   Const SERVICE_START', 'LongWord $0010);
15641:   Const SERVICE_STOP', 'LongWord $0020);
15642:   Const SERVICE_PAUSE_CONTINUE', 'LongWord $0040);
15643:   Const SERVICE_INTERROGATE', 'LongWord $0080);
15644:   Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15645:   Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15646:   Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15647:   Const SERVICE_ADAPTER', 'LongWord $00000004);
15648:   Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15649:   Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15650:   Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);

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15651: Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15652: Const SERVICE_BOOT_START', 'LongWord $00000000);
15653: Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15654: Const SERVICE_AUTO_START', 'LongWord $00000002);
15655: Const SERVICE_DEMAND_START', 'LongWord $00000003);
15656: Const SERVICE_DISABLED', 'LongWord $00000004);
15657: Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15658: Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15659: Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15660: Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15661: CL.AddTypeS('SC_HANDLE', 'THandle');
15662: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15663: CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15664: Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState '
15665: '+: DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15666: +'cificExitCode : DWORD; dwCheckPoint : WORD; dwWaitHint : WORD; end');
15667: Const SERVICE_STATUS', '_SERVICE_STATUS');
15668: Const TServiceStatus', '_SERVICE_STATUS');
15669: CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15670: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15671: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15672: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15673: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15674: TEnumServiceStatus', 'TEnumServiceStatusA');
15675: SC_LOCK', '__Pointer');
15676: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOwner: PChar; dwLockDuration:DWORD; end';
15677: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15678: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15679: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15680: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15681: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15682: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15683: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15684: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15685: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15686: +'iceStartTime : PChar; lpDisplayName : PChar; end');
15687: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15688: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15689: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15690: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15691: TQueryServiceConfig', 'TQueryServiceConfigA');
15692: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL';
15693: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15694: Function CreateService( hSCManager : SC_HANDLE; lpServiceName : PChar; dwDesiredAccess,
  dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15695: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE );
15696: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
  dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;
15697: +'lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE );
15698: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15699: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
  TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD ) : BOOL';
15700: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
  lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
  : DWORD):BOOL';
15701: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
  lpcchBuffer:DWORD):BOOL';
15702: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceName,lpDisplayName:PChar;var
  lpcchBuffer:DWORD):BOOL;
15703: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK );
15704: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL';
15705: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE );
15706: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE';
15707: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
  cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : BOOL';
15708: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15709: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15710: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15711: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL';
15712: end;
15713:
15714: procedure SIRegister_JvPickDate(CL: TPSPascalCompiler);
15715: begin
15716: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
  AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor:TColor;
  BtnHints:TStrings;MinDate:TDateTime;MaxDate: TDateTime):Boolean;
15717: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
  DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDateTime;
15718: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15719: Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):
  TWinControl;
15720: Procedure SetupPopupCalendar(PopupCalendar:TWinControl;AStartOfWeek:TDayOfWeekName;AWeekends:TDaysOfWeek;
  AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:TDateTime);
15721: Function CreateNotifyThread(const
  FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15722: end;
15723:
15724: procedure SIRegister_JclNTFS2(CL: TPSPascalCompiler);
15725: begin

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15726: CL.AddClassN(CL.FindClass('TOBJECT'),'EJclNtfsError');
15727: CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15728: Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean';
15729: Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState';
15730: Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean';
15731: Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)';
15732: Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)';
15733: Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)';
15734: Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)';
15735: Function NtfsSetSparse2( const FileName : string ) : Boolean';
15736: Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean';
15737: Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean';
15738: Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean';
15739: Function NtfsGetSparse2( const FileName : string ) : Boolean';
15740: Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean';
15741: Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean';
15742: Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean';
15743: Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean';
15744: Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean';
15745: Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean';
15746: Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean';
15747: Function NtfsMountVolume2( const Volume : WideChar; const MountPoint : WideString ) : Boolean';
15748: CL.AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
15749: Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15750: Function NtfsOpLockBreakAckNo22( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15751: Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15752: Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15753: Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ):Boolean';
15754: Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean';
15755: Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15756: Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string):Boolean;
15757: CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15758: +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints,siSparseFile)');
15759: CL.AddTypeS('TStreamIds', 'set of TStreamId');
15760: TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15761: CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15762: +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15763: Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Bool;
15764: Function NtfsFindNextStream2( var Data : TFindStreamData ) : Boolean';
15765: Function NtfsFindStreamClose2( var Data : TFindStreamData ) : Boolean';
15766: Function NtfsCreateHardlink2( const LinkFileName, ExistingFileName : String ) : Boolean';
15767: Function NtfsCreateHardlinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15768: Function NtfsCreateHardlinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15769: CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15770: Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean';
15771: Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
List:TStrings):Bool
15772: Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15773: FindClass('TOBJECT','EJclFileSummaryError');
15774: TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )';
15775: TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )';
15776: TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean';
15777: CL.AddClassN(CL.FindClass('TOBJECT','TJclFileSummary'));
15778: SIRegister_TJclFilePropertySet(CL);
15779: //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15780: SIRegister_TJclFileSummary(CL);
15781: SIRegister_TJclFileSummaryInformation(CL);
15782: SIRegister_TJclDocSummaryInformation(CL);
15783: SIRegister_TJclMediaFileSummaryInformation(CL);
15784: SIRegister_TJclMSISummaryInformation(CL);
15785: SIRegister_TJclShellSummaryInformation(CL);
15786: SIRegister_TJclStorageSummaryInformation(CL);
15787: SIRegister_TJclImageSummaryInformation(CL);
15788: SIRegister_TJclDisplacedSummaryInformation(CL);
15789: SIRegister_TJclBriefCaseSummaryInformation(CL);
15790: SIRegister_TJclMiscSummaryInformation(CL);
15791: SIRegister_TJclWebViewSummaryInformation(CL);
15792: SIRegister_TJclMusicSummaryInformation(CL);
15793: SIRegister_TJclDRMSummaryInformation(CL);
15794: SIRegister_TJclVideoSummaryInformation(CL);
15795: SIRegister_TJclAudioSummaryInformation(CL);
15796: SIRegister_TJclControlPanelSummaryInformation(CL);
15797: SIRegister_TJclVolumeSummaryInformation(CL);
15798: SIRegister_TJclShareSummaryInformation(CL);
15799: SIRegister_TJclLinkSummaryInformation(CL);
15800: SIRegister_TJclQuerySummaryInformation(CL);
15801: SIRegister_TJclImageInformation(CL);
15802: SIRegister_TJclJpegSummaryInformation(CL);
15803: end;
15804:
15805: procedure SIRegister_Jcl8087(CL: TPPascalCompiler);
15806: begin
15807: AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');
15808: T8087Rounding',( rcNearestOrEven, rcDownInfinity, rcUpInfinity, rcChopOrTruncate );
15809: T8087Infinity',( icProjective, icAffine );
15810: T8087Exception',( emInvalidOp,emDenormalizedOperand,emZeroDivide,emOverflow,emUnderflow,emPrecision;
15811: CL.AddTypeS('T8087Exceptions', 'set of T8087Exception');
15812: Function Get8087ControlWord : Word');
15813: Function Get8087Infinity : T8087Infinity');

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

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15902: const 'CFSTR_MIME_X_SGI_MOVIE','String').SetString('video/x-sgi-movie');
15903: const 'CFSTR_MIME_HTML','String').SetString('text/html');
15904: const 'MK_S_ASYNCHRONOUS','LongWord').SetUInt( $000401E8);
15905: const 'S_ASYNCHRONOUS','LongWord').SetUInt( $000401E8);
15906: const 'E_PENDING','LongWord').SetUInt( $8000000A);
15907: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IBinding, 'IBinding');
15908: SIRegister_IPersistMoniker(CL);
15909: SIRegister_IBindProtocol(CL);
15910: SIRegister_IBinding(CL);
15911: const 'BINDVERB_GET','LongWord').SetUInt( $00000000);
15912: const 'BINDVERB_POST','LongWord').SetUInt( $00000001);
15913: const 'BINDVERB_PUT','LongWord').SetUInt( $00000002);
15914: const 'BINDVERB_CUSTOM','LongWord').SetUInt( $00000003);
15915: const 'BINDINFO_URLENCODESTGMEDDATA','LongWord').SetUInt( $00000001);
15916: const 'BINDINFO_URLENCODEDEXTRAINFO','LongWord').SetUInt( $00000002);
15917: const 'BINDF_ASYNCHRONOUS','LongWord').SetUInt( $00000001);
15918: const 'BINDF_ASYNCSTORAGE','LongWord').SetUInt( $00000002);
15919: const 'BINDF_NOPROGRESSIVERENDERING','LongWord').SetUInt( $00000004);
15920: const 'BINDF_OFFLINEOPERATION','LongWord').SetUInt( $00000008);
15921: const 'BINDF_GETNEWESTVERSION','LongWord').SetUInt( $00000010);
15922: const 'BINDF_NOWRITECACHE','LongWord').SetUInt( $00000020);
15923: const 'BINDF_NEEDFILE','LongWord').SetUInt( $00000040);
15924: const 'BINDF_PULLDATA','LongWord').SetUInt( $00000080);
15925: const 'BINDF_IGNORESECURITYPROBLEM','LongWord').SetUInt( $00000100);
15926: const 'BINDF_RESYNCHRONIZE','LongWord').SetUInt( $00000200);
15927: const 'BINDF_HYPERLINK','LongWord').SetUInt( $00000400);
15928: const 'BINDF_NO_UI','LongWord').SetUInt( $00000800);
15929: const 'BINDF_SILENTOPERATION','LongWord').SetUInt( $00001000);
15930: const 'BINDF_PRAGMA_NO_CACHE','LongWord').SetUInt( $00002000);
15931: const 'BINDF_FREE_THREADED','LongWord').SetUInt( $00010000);
15932: const 'BINDF_DIRECT_READ','LongWord').SetUInt( $00020000);
15933: const 'BINDF_FORMS_SUBMIT','LongWord').SetUInt( $00040000);
15934: const 'BINDF_GETFROMCACHE_IF_NET_FAIL','LongWord').SetUInt( $00080000);
15935: //const 'BINDF_DONTUSECACHE','').SetString( BINDF_GETNEWESTVERSION);
15936: //const 'BINDF_DONTPUTINCACHE','').SetString( BINDF_NOWRITECACHE);
15937: //const 'BINDF_NOCOPYDATA','').SetString( BINDF_PULLDATA);
15938: const 'BSCF_FIRSTDATANOTIFICATION','LongWord').SetUInt( $00000001);
15939: const 'BSCF_INTERMEDIATEDATANOTIFICATION','LongWord').SetUInt( $00000002);
15940: const 'BSCF_LASTDATANOTIFICATION','LongWord').SetUInt( $00000004);
15941: const 'BSCF_DATAFULLYAVAILABLE','LongWord').SetUInt( $00000008);
15942: const 'BSCF_AVAILABLEDATASIZEUNKNOWN','LongWord').SetUInt( $00000010);
15943: const 'BINDSTATUS_FINDINGRESOURCE','LongInt').SetInt( 1);
15944: const 'BINDSTATUS_CONNECTING','LongInt').SetInt( BINDSTATUS_FINDINGRESOURCE + 1);
15945: const 'BINDSTATUS_REDIRECTING','LongInt').SetInt( BINDSTATUS_CONNECTING + 1);
15946: const 'BINDSTATUS_BEGINDOWNLOADDATA','LongInt').SetInt( BINDSTATUS_REDIRECTING + 1);
15947: const 'BINDSTATUS_DOWNLOADINGDATA','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADDATA + 1);
15948: const 'BINDSTATUS_ENDDOWNLOADDATA','LongInt').SetInt( BINDSTATUS_DOWNLOADINGDATA + 1);
15949: const 'BINDSTATUS_BEGINDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADDATA + 1);
15950: const 'BINDSTATUS_INSTALLINGCOMPONENTS','LongInt').SetInt( BINDSTATUS_BEGINDOWNLOADCOMPONENTS + 1);
15951: const 'BINDSTATUS_ENDDOWNLOADCOMPONENTS','LongInt').SetInt( BINDSTATUS_INSTALLINGCOMPONENTS + 1);
15952: const 'BINDSTATUS_USINGCACHEDCOPY','LongInt').SetInt( BINDSTATUS_ENDDOWNLOADCOMPONENTS + 1);
15953: const 'BINDSTATUS_SENDINGREQUEST','LongInt').SetInt( BINDSTATUS_USINGCACHEDCOPY + 1);
15954: const 'BINDSTATUS_CLASSIDAVAILABLE','LongInt').SetInt( BINDSTATUS_SENDINGREQUEST + 1);
15955: const 'BINDSTATUS_MIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_CLASSIDAVAILABLE + 1);
15956: const 'BINDSTATUS_CACHEFILENAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETYPEAVAILABLE + 1);
15957: const 'BINDSTATUS_BEGINSYNCOPERATION','LongInt').SetInt( BINDSTATUS_CACHEFILENAMEAVAILABLE + 1);
15958: const 'BINDSTATUS_ENDSYNCOPERATION','LongInt').SetInt( BINDSTATUS_BEGINSYNCOPERATION + 1);
15959: const 'BINDSTATUS_BEGINUPLOADDATA','LongInt').SetInt( BINDSTATUS_ENDSYNCOPERATION + 1);
15960: const 'BINDSTATUS_UPLOADINGDATA','LongInt').SetInt( BINDSTATUS_BEGINUPLOADDATA + 1);
15961: const 'BINDSTATUS_ENDUPLOADDATA','LongInt').SetInt( BINDSTATUS_UPLOADINGDATA + 1);
15962: const 'BINDSTATUS_PROTOCOLCLASSID','LongInt').SetInt( BINDSTATUS_ENDUPLOADDATA + 1);
15963: const 'BINDSTATUS_ENCODING','LongInt').SetInt( BINDSTATUS_PROTOCOLCLASSID + 1);
15964: const 'BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE','LongInt').SetInt( BINDSTATUS_ENCODING + 1);
15965: const 'BINDSTATUS_CLASSINSTALLLOCATION','LongInt').SetInt( BINDSTATUS_VERIFIEDMIMETYPEAVAILABLE + 1);
15966: const 'BINDSTATUS_DECODING','LongInt').SetInt( BINDSTATUS_CLASSINSTALLLOCATION + 1);
15967: const 'BINDSTATUS_LOADINGMIMEHANDLER','LongInt').SetInt( BINDSTATUS_DECODING + 1);
15968: const 'BINDSTATUS_CONTENTDISPOSITIONATTACH','LongInt').SetInt( BINDSTATUS_LOADINGMIMEHANDLER + 1);
15969: const 'BINDSTATUS_FILTERREPORTMIMETYPE','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONATTACH + 1);
15970: const 'BINDSTATUS_CLSIDCANINSTANTIATE','LongInt').SetInt( BINDSTATUS_FILTERREPORTMIMETYPE + 1);
15971: const 'BINDSTATUS_IUNKNOWNAVAILABLE','LongInt').SetInt( BINDSTATUS_CLSIDCANINSTANTIATE + 1);
15972: const 'BINDSTATUS_DIRECTBIND','LongInt').SetInt( BINDSTATUS_IUNKNOWNAVAILABLE + 1);
15973: const 'BINDSTATUS_RAWMIMETYPE','LongInt').SetInt( BINDSTATUS_DIRECTBIND + 1);
15974: const 'BINDSTATUS_PROXYDETECTING','LongInt').SetInt( BINDSTATUS_RAWMIMETYPE + 1);
15975: const 'BINDSTATUS_ACCEPTRANGES','LongInt').SetInt( BINDSTATUS_PROXYDETECTING + 1);
15976: const 'BINDSTATUS_COOKIE_SENT','LongInt').SetInt( BINDSTATUS_ACCEPTRANGES + 1);
15977: const 'BINDSTATUS_COMPACT_POLICY RECEIVED','LongInt').SetInt( BINDSTATUS_COOKIE_SENT + 1);
15978: const 'BINDSTATUS_COOKIE_SUPPRESSED','LongInt').SetInt( BINDSTATUS_COMPACT_POLICY RECEIVED + 1);
15979: const 'BINDSTATUS_COOKIE_STATE UNKNOWN','LongInt').SetInt( BINDSTATUS_COOKIE_SUPPRESSED + 1);
15980: const 'BINDSTATUS_COOKIE_STATE ACCEPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE UNKNOWN + 1);
15981: const 'BINDSTATUS_COOKIE_STATE REJECT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE ACCEPT + 1);
15982: const 'BINDSTATUS_COOKIE_STATE PROMPT','LongInt').SetInt( BINDSTATUS_COOKIE_STATE REJECT + 1);
15983: const 'BINDSTATUS_COOKIE_STATE LEASH','LongInt').SetInt( BINDSTATUS_COOKIE_STATE PROMPT + 1);
15984: const 'BINDSTATUS_COOKIE_STATE DOWNGRADE','LongInt').SetInt( BINDSTATUS_COOKIE_STATE LEASH + 1);
15985: const 'BINDSTATUS_POLICY_HREF','LongInt').SetInt( BINDSTATUS_COOKIE_STATE DOWNGRADE + 1);
15986: const 'BINDSTATUS_P3P_HEADER','LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
15987: const 'BINDSTATUS_SESSION_COOKIE RECEIVED','LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
15988: const 'BINDSTATUS_PERSISTENT_COOKIE RECEIVED','LongInt').SetInt( BINDSTATUS_SESSION_COOKIE RECEIVED + 1);
15989: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED','LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE RECEIVED + 1);
15990: const 'BINDSTATUS_CACHECONTROL','LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);

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15991: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME','LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
15992: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
15993: const 'BINDSTATUS_PUBLISHERAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
15994: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
15995: // PBindInfo', '^TBindInfo // will not work');
15996: {_tagBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
15997: +'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
15998: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
15999: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
16000: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
16001: TBindInfo', '_tagBINDINFO');
16002: BINDINFO', '_tagBINDINFO');
16003: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
16004: +'criptor : DWORD; bInheritHandle : BOOL; end');
16005: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
16006: REMSECURITY_ATTRIBUTES', '_REMSecurity_ATTRIBUTES');
16007: //PREmBindInfo', '^TRemBindInfo // will not work');
16008: {_tagRemBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; '
16009: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16010: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16011: +'; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknown'
16012: +'n; dwReserved : DWORD; end');
16013: TRemBindInfo', '_tagRemBINDINFO');
16014: RemBINDINFO', '_tagRemBINDINFO');
16015: //PREmFormatEtc', '^TRemFormatEtc // will not work');
16016: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tmmed:DWORD; end');
16017: TRemFormatEtc', 'tagRemFORMATETC');
16018: RemFORMATETC', 'tagRemFORMATETC');
16019: SIRegister_IBindStatusCallback(CL);
16020: SIRegister_IAuthenticate(CL);
16021: SIRegister_IHttpNegotiate(CL);
16022: SIRegister_IWindowForBindingUI(CL);
16023: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16024: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16025: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16026: const 'CIP_Older_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16027: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_Older_VERSION_EXISTS + 1);
16028: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16029: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT','LongInt').SetInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16030: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1);
16031: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16032: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16033: SIRegister_ICodeInstall(CL);
16034: SIRegister_IWInetInfo(CL);
16035: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16036: SIRegister_IHttpSecurity(CL);
16037: SIRegister_IWInetHttpInfo(CL);
16038: SIRegister_IBindHost(CL);
16039: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16040: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16041: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16042: Function URLOpenStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16043: Function URLOpenPullStream( p1 : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult');
16044: Function URLDownloadToFile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback ) : HResult');
16045: Function URLDownloadToCacheFile( p1 : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback ) : HResult');
16046: Function URLOpenBlockingStream(p1:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback:HResult');
16047: Function HlinkGoBack( unk : IUnknown ) : HResult';
16048: Function HlinkGoForward( unk : IUnknown ) : HResult';
16049: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult';
16050: // Function HlinkNavigateMoniker( unk : IUnknown; mkTarget : IMoniker ) : HResult');
16051: SIRegister_IInternet(CL);
16052: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16053: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16054: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16055: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16056: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16057: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16058: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16059: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16060: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16061: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16062: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16063: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);
16064: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16065: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16066: //POLEStrArray', '^TOLESTRArray // will not work';
16067: SIRegister_IInternetBindInfo(CL);
16068: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16069: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16070: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);
16071: const 'PI_USE_WORKERTHREAD','LongWord').SetUInt( $00000008);
16072: const 'PI_MIMEVERIFICATION','LongWord').SetUInt( $00000010);
16073: const 'PI_CLSIDLOOKUP','LongWord').SetUInt( $00000020);
16074: const 'PI_DATAPROGRESS','LongWord').SetUInt( $00000040);
16075: const 'PI_SYNCHRONOUS','LongWord').SetUInt( $00000080);
16076: const 'PI_APARTMENTTHREADED','LongWord').SetUInt( $00000100);

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16077: const 'PI_CLASSINSTALL','LongWord').SetUInt( $00000200);
16078: const 'PD_FORCE_SWITCH','LongWord').SetUInt( $00010000);
16079: //const 'PI_DOCFILECLSIDLOOKUP','').SetString( PI_CLSIDLOOKUP);
16080: //PProtocolData', '^TProtocolData // will not work');
16081: _tagPROTOCOLDATA', record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16082: TProtocolData', '_tagPROTOCOLDATA');
16083: PROTOCOLDATA', '_tagPROTOCOLDATA');
16084: CL.AddInterface(CL.FindInterface('IUNKNOWN'),IIInternetProtocolSink, 'IIInternetProtocolSink');
16085: SIRegister_IInternetProtocolRoot(CL);
16086: SIRegister_IInternetProtocol(CL);
16087: SIRegister_IInternetProtocolSink(CL);
16088: const 'OIBDG_APARTMENTTHREADED','LongWord').SetUInt( $00000100);
16089: SIRegister_IInternetSession(CL);
16090: SIRegister_IInternetThreadSwitch(CL);
16091: SIRegister_IInternetPriority(CL);
16092: const 'PARSE_CANONICALIZE','LongInt').SetInt( 1);
16093: const 'PARSE_FRIENDLY','LongInt').SetInt( PARSE_CANONICALIZE + 1);
16094: const 'PARSE_SECURITY_URL','LongInt').SetInt( PARSE_FRIENDLY + 1);
16095: const 'PARSE_ROOTDOCUMENT','LongInt').SetInt( PARSE_SECURITY_URL + 1);
16096: const 'PARSE_DOCUMENT','LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16097: const 'PARSE_ANCHOR','LongInt').SetInt( PARSE_DOCUMENT + 1);
16098: const 'PARSE_ENCODE','LongInt').SetInt( PARSE_ANCHOR + 1);
16099: const 'PARSE_DECODE','LongInt').SetInt( PARSE_ENCODE + 1);
16100: const 'PARSE_PATH_FROM_URL','LongInt').SetInt( PARSE_DECODE + 1);
16101: const 'PARSE_URL_FROM_PATH','LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16102: const 'PARSE_MIME','LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16103: const 'PARSE_SERVER','LongInt').SetInt( PARSE_MIME + 1);
16104: const 'PARSE_SCHEMA','LongInt').SetInt( PARSE_SERVER + 1);
16105: const 'PARSE_SITE','LongInt').SetInt( PARSE_SCHEMA + 1);
16106: const 'PARSE_DOMAIN','LongInt').SetInt( PARSE_SITE + 1);
16107: const 'PARSE_LOCATION','LongInt').SetInt( PARSE_DOMAIN + 1);
16108: const 'PARSE_SECURITY_DOMAIN','LongInt').SetInt( PARSE_LOCATION + 1);
16109: const 'PSU_DEFAULT','LongInt').SetInt( 1);
16110: const 'PSU_SECURITY_URL_ONLY','LongInt').SetInt( PSU_DEFAULT + 1);
16111: const 'QUERY_EXPIRATION_DATE','LongInt').SetInt( 1);
16112: const 'QUERY_TIME_OF_LAST_CHANGE','LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16113: const 'QUERY_CONTENT_ENCODING','LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16114: const 'QUERY_CONTENT_TYPE','LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16115: const 'QUERY_REFRESH','LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16116: const 'QUERY_RECOMBINE','LongInt').SetInt( QUERY_REFRESH + 1);
16117: const 'QUERY_CAN_NAVIGATE','LongInt').SetInt( QUERY_RECOMBINE + 1);
16118: const 'QUERYUSES_NETWORK','LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16119: const 'QUERY_IS_CACHED','LongInt').SetInt( QUERYUSES_NETWORK + 1);
16120: const 'QUERY_IS_INSTALLEDENTRY','LongInt').SetInt( QUERY_IS_CACHED + 1);
16121: const 'QUERY_IS_CACHED_OR_MAPPED','LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16122: const 'QUERYUSES_CACHE','LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16123: const 'QUERY_IS_SECURE','LongInt').SetInt( QUERYUSES_CACHE + 1);
16124: const 'QUERY_IS_SAFE','LongInt').SetInt( QUERY_IS_SECURE + 1);
16125: SIRegister_IInternetProtocolInfo(CL);
16126: IOInet', 'IInternet');
16127: IOInetBindInfo', 'IInternetBindInfo');
16128: IOInetProtocolRoot', 'IInternetProtocolRoot');
16129: IOInetProtocol', 'IInternetProtocol');
16130: IOInetProtocolSink', 'IInternetProtocolSink');
16131: IOInetProtocolInfo', 'IInternetProtocolInfo');
16132: IOInetSession', 'IInternetSession');
16133: IOInetPriority', 'IInternetPriority');
16134: IOInetThreadSwitch', 'IInternetThreadSwitch');
16135: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16136: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16137: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult');
16138: Function CoInternetGetProtocolFlags( pwzUrl:LPCWSTR;var dwFlags DWORD; dwReserved:DWORD):HResult');
16139: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16140: Function CoInternetGetSession(dwSessionMode:DWORD; var piInternetSession: IInternetSes;dwReserved:DWORD):HResult;
16141: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16142: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16143: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16144: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : Hresult');
16145: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult');
16146: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16147: Function OInetGetSession(dwSessionMode:DWORD; var piInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16148: //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16149: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo);
16150: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER','LongWord').SetUInt( HResult ( $800C0011 ));
16151: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult ( $800C0012 ));
16152: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult ( $800C0011 ));
16153: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult ( $800C0013 ));
16154: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult ( $800C0014 ));
16155: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001);
16156: SIRegister_IInternetSecurityMgrSite(CL);

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16157: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001);
16158: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002);
16159: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16160: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16161: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16162: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512);
16163: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000);
16164: const 'PUAF_NOUI','LongWord').SetUInt( $00000001);
16165: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002);
16166: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004);
16167: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008);
16168: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010);
16169: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020);
16170: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040);
16171: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080);
16172: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100);
16173: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200);
16174: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400);
16175: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000);
16176: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000);
16177: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000);
16178: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000);
16179: const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000);
16180: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0);
16181: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1);
16182: const 'SZM_CREATE','LongWord').SetUInt( $00000000);
16183: const 'SZM_DELETE','LongWord').SetUInt( $00000001);
16184: SIRegister_IInternetSecurityManager(CL);
16185: SIRegister_IInternetHostSecurityManager(CL);
16186: SIRegister_IInternetSecurityManagerEx(CL);
16187: const 'URLACTION_MIN','LongWord').SetUInt( $00001000);
16188: const 'URLACTION_DOWNLOAD_MIN','LongWord').SetUInt( $00001000);
16189: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEX','LongWord').SetUInt( $00001001);
16190: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEX','LongWord').SetUInt( $00001004);
16191: const 'URLACTION_DOWNLOAD_CURR_MAX','LongWord').SetUInt( $00001004);
16192: const 'URLACTION_DOWNLOAD_MAX','LongWord').SetUInt( $000011FF);
16193: const 'URLACTION_ACTIVEX_MIN','LongWord').SetUInt( $00001200);
16194: const 'URLACTION_ACTIVEX_RUN','LongWord').SetUInt( $00001200);
16195: const 'URLACTION_ACTIVEX_OVERRIDE_OBJECT_SAFETY','LongWord').SetUInt( $00001201);
16196: const 'URLACTION_ACTIVEX_OVERRIDE_DATA_SAFETY','LongWord').SetUInt( $00001202);
16197: const 'URLACTION_ACTIVEX_OVERRIDE_SCRIPT_SAFETY','LongWord').SetUInt( $00001203);
16198: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY','LongWord').SetUInt( $00001401);
16199: const 'URLACTION_ACTIVEX_CONFIRM_NOOBJECTSAFETY','LongWord').SetUInt( $00001204);
16200: const 'URLACTION_ACTIVEX_TREATASUNTRUSTED','LongWord').SetUInt( $00001205);
16201: const 'URLACTION_ACTIVEX_NO_WEBOC_SCRIPT','LongWord').SetUInt( $00001206);
16202: const 'URLACTION_ACTIVEX_CURR_MAX','LongWord').SetUInt( $00001206);
16203: const 'URLACTION_ACTIVEX_MAX','LongWord').SetUInt( $000013FF);
16204: const 'URLACTION_SCRIPT_MIN','LongWord').SetUInt( $00001400);
16205: const 'URLACTION_SCRIPT_RUN','LongWord').SetUInt( $00001400);
16206: const 'URLACTION_SCRIPT_JAVA_USE','LongWord').SetUInt( $00001402);
16207: const 'URLACTION_SCRIPT_SAFE_ACTIVEX','LongWord').SetUInt( $00001405);
16208: const 'URLACTION_SCRIPT_CURR_MAX','LongWord').SetUInt( $00001405);
16209: const 'URLACTION_SCRIPT_MAX','LongWord').SetUInt( $000015FF);
16210: const 'URLACTION_HTML_MIN','LongWord').SetUInt( $00001600);
16211: const 'URLACTION_HTML_SUBMIT_FORMS','LongWord').SetUInt( $00001601);
16212: const 'URLACTION_HTML_SUBMIT_FORMS_FROM','LongWord').SetUInt( $00001602);
16213: const 'URLACTION_HTML_SUBMIT_FORMS_TO','LongWord').SetUInt( $00001603);
16214: const 'URLACTION_HTML_FONT_DOWNLOAD','LongWord').SetUInt( $00001604);
16215: const 'URLACTION_HTML_JAVA_RUN','LongWord').SetUInt( $00001605);
16216: const 'URLACTION_HTML_CURR_MAX','LongWord').SetUInt( $00001605);
16217: const 'URLACTION_HTML_MAX','LongWord').SetUInt( $000017FF);
16218: const 'URLACTION_SHELL_MIN','LongWord').SetUInt( $00001800);
16219: const 'URLACTION_SHELL_INSTALL_DTITEMS','LongWord').SetUInt( $00001800);
16220: const 'URLACTION_SHELL_MOVE_OR_COPY','LongWord').SetUInt( $00001802);
16221: const 'URLACTION_SHELL_FILE_DOWNLOAD','LongWord').SetUInt( $00001803);
16222: const 'URLACTION_SHELL_VERB','LongWord').SetUInt( $00001804);
16223: const 'URLACTION_SHELL_WEBVIEW_VERB','LongWord').SetUInt( $00001805);
16224: const 'URLACTION_SHELL_SHELLEXECUTE','LongWord').SetUInt( $00001806);
16225: const 'URLACTION_SHELL_EXECUTE_HIGHRISK','LongWord').SetUInt( $00001806);
16226: const 'URLACTION_SHELL_EXECUTE_MODRISK','LongWord').SetUInt( $00001807);
16227: const 'URLACTION_SHELL_EXECUTE_LOWRISK','LongWord').SetUInt( $00001808);
16228: const 'URLACTION_SHELL_POPUPMGR','LongWord').SetUInt( $00001809);
16229: const 'URLACTION_SHELL_CURR_MAX','LongWord').SetUInt( $00001809);
16230: const 'URLACTION_SHELL_MAX','LongWord').SetUInt( $000019FF);
16231: const 'URLACTION_NETWORK_MIN','LongWord').SetUInt( $00001A00);
16232: const 'URLACTION_CREDENTIALS_USE','LongWord').SetUInt( $00001A00);
16233: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK','LongWord').SetUInt( $00000000);
16234: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER','LongWord').SetUInt( $00010000);
16235: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT','LongWord').SetUInt( $00020000);
16236: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY','LongWord').SetUInt( $00030000);
16237: const 'URLACTION_AUTHENTICATE_CLIENT','LongWord').SetUInt( $00001A01);
16238: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK','LongWord').SetUInt( $00000000);
16239: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE','LongWord').SetUInt( $00010000);
16240: const 'URLPOLICY_AUTHENTICATE_MUTUAL_ONLY','LongWord').SetUInt( $00030000);
16241: const 'URLACTION_NETWORK_CURR_MAX','LongWord').SetUInt( $00001A01);
16242: const 'URLACTION_NETWORK_MAX','LongWord').SetUInt( $00001BFF);
16243: const 'URLACTION_JAVA_MIN','LongWord').SetUInt( $00001C00);
16244: const 'URLACTION_JAVA_PERMISSIONS','LongWord').SetUInt( $00001C00);
16245: const 'URLPOLICY_JAVA_PROHIBIT','LongWord').SetUInt( $00000000);

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16246: const 'URLPOLICY_JAVA_HIGH', 'LongWord').SetUInt( $00010000);
16247: const 'URLPOLICY_JAVA_MEDIUM', 'LongWord').SetUInt( $00020000);
16248: const 'URLPOLICY_JAVA_LOW', 'LongWord').SetUInt( $00030000);
16249: const 'URLPOLICY_JAVA_CUSTOM', 'LongWord').SetUInt( $00800000);
16250: const 'URLACTION_JAVA_CURR_MAX', 'LongWord').SetUInt( $00001C00);
16251: const 'URLACTION_JAVA_MAX', 'LongWord').SetUInt( $00001CFF);
16252: const 'URLACTION_INFODELIVERY_MIN', 'LongWord').SetUInt( $00001D00);
16253: const 'URLACTION_INFODELIVERY_NO_ADDING_CHANNELS', 'LongWord').SetUInt( $00001D00);
16254: const 'URLACTION_INFODELIVERY_NO_EDITING_CHANNELS', 'LongWord').SetUInt( $00001D01);
16255: const 'URLACTION_INFODELIVERY_NO_Removing_CHANNELS', 'LongWord').SetUInt( $00001D02);
16256: const 'URLACTION_INFODELIVERY_NO_ADDING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D03);
16257: const 'URLACTION_INFODELIVERY_NO_EDITING_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D04);
16258: const 'URLACTION_INFODELIVERY_NO_Removing_SUBSCRIPTIONS', 'LongWord').SetUInt( $00001D05);
16259: const 'URLACTION_INFODELIVERY_NO_CHANNEL_LOGGING', 'LongWord').SetUInt( $00001D06);
16260: const 'URLACTION_INFODELIVERY_Curr_MAX', 'LongWord').SetUInt( $00001D06);
16261: const 'URLACTION_INFODELIVERY_MAX', 'LongWord').SetUInt( $00001Dff);
16262: const 'URLACTION_CHANNEL_SOFTDIST_MIN', 'LongWord').SetUInt( $00001E00);
16263: const 'URLACTION_CHANNEL_SOFTDIST_PERMISSIONS', 'LongWord').SetUInt( $00001E05);
16264: const 'URLPOLICY_CHANNEL_SOFTDIST_PROHIBIT', 'LongWord').SetUInt( $00010000);
16265: const 'URLPOLICY_CHANNEL_SOFTDIST_PRECACHE', 'LongWord').SetUInt( $00020000);
16266: const 'URLPOLICY_CHANNEL_SOFTDIST_AUTOINSTALL', 'LongWord').SetUInt( $00030000);
16267: const 'URLACTION_CHANNEL_SOFTDIST_MAX', 'LongWord').SetUInt( $00001EFF);
16268: const 'URLACTION_BEHAVIOR_MIN', 'LongWord').SetUInt( $00002000);
16269: const 'URLACTION_BEHAVIOR_RUN', 'LongWord').SetUInt( $00002000);
16270: const 'URLPOLICY_BEHAVIOR_CHECK_LIST', 'LongWord').SetUInt( $00001000);
16271: const 'URLACTION_FEATURE_MIN', 'LongWord').SetUInt( $00002100);
16272: const 'URLACTION_FEATURE_MIME_SNIFFING', 'LongWord').SetUInt( $00002100);
16273: const 'URLACTION_FEATURE_ZONE_ELEVATION', 'LongWord').SetUInt( $00002101);
16274: const 'URLACTION_FEATURE_WINDOW_RESTRICTIONS', 'LongWord').SetUInt( $00002102);
16275: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI_MIN', 'LongWord').SetUInt( $00002200);
16276: const 'URLACTION_AUTOMATIC_DOWNLOAD_UI', 'LongWord').SetUInt( $00002200);
16277: const 'URLACTION_AUTOMATIC_ACTIVEX_UI', 'LongWord').SetUInt( $00002201);
16278: const 'URLACTION_ALLOW_RESTRICTEDPROTOCOLS', 'LongWord').SetUInt( $00002300);
16279: const 'URLPOLICY_ALLOW', 'LongWord').SetUInt( $00);
16280: const 'URLPOLICY_QUERY', 'LongWord').SetUInt( $01);
16281: const 'URLPOLICY_DISALLOW', 'LongWord').SetUInt( $03);
16282: const 'URLPOLICY_NOTIFY_ON_ALLOW', 'LongWord').SetUInt( $10);
16283: const 'URLPOLICY_NOTIFY_ON_DISALLOW', 'LongWord').SetUInt( $20);
16284: const 'URLPOLICY_LOG_ON_ALLOW', 'LongWord').SetUInt( $40);
16285: const 'URLPOLICY_LOG_ON_DISALLOW', 'LongWord').SetUInt( $80);
16286: const 'URLPOLICY_MASK_PERMISSIONS', 'LongWord').SetUInt( $0f);
16287: Function GetUrlPolicyPermissions( dw : DWORD) : DWORD';
16288: Function SetUrlPolicyPermissions( dw, dw2 : DWORD) : DWORD';
16289: const 'URLZONE_PREDEFINED_MIN', 'LongInt').SetInt( 0);
16290: const 'URLZONE_LOCAL_MACHINE', 'LongInt').SetInt( 0);
16291: const 'URLZONE_INTRANET', 'LongInt').SetInt( URLZONE_LOCAL_MACHINE + 1);
16292: const 'URLZONE_TRUSTED', 'LongInt').SetInt( URLZONE_INTRANET + 1);
16293: const 'URLZONE_INTERNET', 'LongInt').SetInt( URLZONE_TRUSTED + 1);
16294: const 'URLZONE_UNTRUSTED', 'LongInt').SetInt( URLZONE_INTERNET + 1);
16295: const 'URLZONE_PREDEFINED_MAX', 'LongInt').SetInt( 999);
16296: const 'URLZONE_USER_MIN', 'LongInt').SetInt( 1000);
16297: const 'URLZONE_USER_MAX', 'LongInt').SetInt( 10000);
16298: const 'URLTEMPLATE_CUSTOM', 'LongWord').SetUInt( $00000000);
16299: const 'URLTEMPLATE_PREDEFINED_MIN', 'LongWord').SetUInt( $00010000);
16300: const 'URLTEMPLATE_LOW', 'LongWord').SetUInt( $00010000);
16301: const 'URLTEMPLATE_MEDIUM', 'LongWord').SetUInt( $00011000);
16302: const 'URLTEMPLATE_HIGH', 'LongWord').SetUInt( $00012000);
16303: const 'URLTEMPLATE_PREDEFINED_MAX', 'LongWord').SetUInt( $00020000);
16304: const 'MAX_ZONE_PATH', 'LongInt').SetInt( 260);
16305: const 'MAX_ZONE_DESCRIPTION', 'LongInt').SetInt( 200);
16306: const 'ZAFLAGS_CUSTOM_EDIT', 'LongWord').SetUInt( $00000001);
16307: const 'ZAFLAGS_ADD_SITES', 'LongWord').SetUInt( $00000002);
16308: const 'ZAFLAGS_REQUIRE_VERIFICATION', 'LongWord').SetUInt( $00000004);
16309: const 'ZAFLAGS_INCLUDE_PROXY_OVERRIDE', 'LongWord').SetUInt( $00000008);
16310: const 'ZAFLAGS_INCLUDE_INTRANET_SITES', 'LongWord').SetUInt( $00000010);
16311: const 'ZAFLAGS_NO_UI', 'LongWord').SetUInt( $00000020);
16312: const 'ZAFLAGS_SUPPORTS_VERIFICATION', 'LongWord').SetUInt( $00000040);
16313: const 'ZAFLAGS_UNC_AS_INTRANET', 'LongWord').SetUInt( $00000080);
16314: const 'ZAFLAGS_USE_LOCKED_ZONES', 'LongWord').SetUInt( $00010000);
16315: //PZoneAttributes', 'TZoneAttributes // will not work';
16316: _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');
16317: { _ZONEATTRIBUTES = packed record
16318:   cbSize: ULONG;
16319:   szDisplayName: array [0..260 - 1] of WideChar;
16320:   szDescription: array [0..200 - 1] of WideChar;
16321:   szIconPath: array [0..260 - 1] of WideChar;
16322:   dwTemplateMinLevel: DWORD;
16323:   dwTemplateRecommended: DWORD;
16324:   dwTemplateCurrentLevel: DWORD;
16325:   dwFlags: DWORD;
16326: end; }
16327: TZoneAttributes', '_ZONEATTRIBUTES');
16328: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16329: const 'URLZONEREG_DEFAULT', 'LongInt').SetInt( 0);
16330: const 'URLZONEREG_HKLM', 'LongInt').SetInt( URLZONEREG_DEFAULT + 1);
16331: const 'URLZONEREG_HKCU', 'LongInt').SetInt( URLZONEREG_HKLM + 1);
16332: SIRegister_IInternetZoneManager(CL);

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16333:  SIRegister_IInternetZoneManagerEx(CL);
16334:  const 'SOFTDIST_FLAG_USAGE_EMAIL','LongWord').SetUInt( $00000001);
16335:  const 'SOFTDIST_FLAG_USAGE_PRECACHE','LongWord').SetUInt( $00000002);
16336:  const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL','LongWord').SetUInt( $00000004);
16337:  const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16338:  const 'SOFTDIST_ASTATE_NONE','LongWord').SetUInt( $00000000);
16339:  const 'SOFTDIST_ASTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16340:  const 'SOFTDIST_ASTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16341:  const 'SOFTDIST_ASTATE_INSTALLED','LongWord').SetUInt( $00000003);
16342:  //PCodeBaseHold', '^TCodeBaseHold // will not work');
16343:  _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR;
16344:    +'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionLS : DWORD; dwStyle : DWORD; end');
16345:  TCodeBaseHold', '_tagCODEBASEHOLD');
16346:  CODEBASEHOLD', '_tagCODEBASEHOLD');
16347:  //PSoftDistInfo', '^TSoftDistInfo // will not work');
16348:  _tagSOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAdr
16349:    +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI
16350:    +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS'
16351:    +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve
16352:    +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16353:  TSoftDistInfo', '_tagSOFTDISTINFO');
16354:  SOFTDISTINFO', '_tagSOFTDISTINFO');
16355:  SIRegister_ISoftDistExt(CL);
16356:  Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo ) : HResult');
16357:  Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult';
16358:  SIRegister_IDataFilter(CL);
16359:  //PProtocolFilterData', '^TProtocolFilterData // will not work');
16360:  _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink :
16361:    +'IInternetProtocolSink; Protocol : IInternetProtocol; Unk : IUnknown; dwFil
16362:    +'terFlags : DWORD; end');
16363:  TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16364:  PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16365:  //PDataInfo', '^TDataInfo // will not work');
16366:  _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL
16367:    +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16368:  TDataInfo', '_tagDATAINFO');
16369:  DATAINFO', '_tagDATAINFO');
16370:  SIRegister_IEncodingFilterFactory(CL);
16371:  Function IsLoggingEnabled( pszUrl : PChar ) : BOOL';
16372:  //Function IsLoggingEnabledA( pszUrl : PAnsiChar ) : BOOL';
16373:  //Function IsLoggingEnabledW( pszUrl : PWideChar ) : BOOL';
16374:  //PHitLoggingInfo', 'THitLoggingInfo // will not work');
16375:  _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU
16376:    +'rlName : LPSTR; StartTime : TSystemTime; EndTime : TSystemTime; lpszExtendedInfo : LPSTR; end');
16377:  THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16378:  HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16379:  Function WriteHitLogging( const Logginginfo : THitLoggingInfo ) : BOOL';
16380: end;
16381:
16382: procedure SIRegister_DFFUUtils(CL: TPPascalCompiler);
16383: begin
16384:  Procedure reformatMemo( const m : TCustomMemo );
16385:  Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer );
16386:  Procedure MoveToTop( memo : TMemo );
16387:  Procedure ScrollToTop( memo : TMemo );
16388:  Function LineNumberClicked( memo : TMemo ) : integer';
16389:  Function MemoClickedLine( memo : TMemo ) : integer';
16390:  Function ClickedMemoLine( memo : TMemo ) : integer';
16391:  Function MemoLineClicked( memo : TMemo ) : integer';
16392:  Function LinePositionClicked( Memo : TMemo ) : integer');
16393:  Function ClickedMemoPosition( memo : TMemo ) : integer');
16394:  Function MemoPositionClicked( memo : TMemo ) : integer');
16395:  Procedure AdjustGridSize( grid : TDrawGrid );
16396:  Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer );
16397:  Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer );
16398:  Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer );
16399:  Procedure Sortgridi(Grid:TStringGrid; const SortCol : integer; sortascendant : boolean);
16400:  Procedure sortstrDown( var s : string );
16401:  Procedure sortstrUp( var s : string );
16402:  Procedure rotatestrleft( var s : string );
16403:  Function dffstrtofloatdef( s : string; default : extended ) : extended';
16404:  Function deblank( s : string ) : string';
16405:  Function IntToBinaryString( const n : integer; MinLength : integer ) : string';
16406:  Procedure FreeAndClearListBox( C : TListBox );
16407:  Procedure FreeAndClearMemo( C : TMemo );
16408:  Procedure FreeAndClearStringList( C : TStringList );
16409:  Function dffgetfilesize( f : TSearchrec ) : int64';
16410: end;
16411:
16412: procedure SIRegister_MathsLib(CL: TPPascalCompiler);
16413: begin
16414:  CL.AddTypeS('intset', 'set of byte');
16415:  TPoint64', 'record x : int64; y : int64; end');
16416:  Function GetNextPandigital( size : integer; var Digits : array of integer ) : boolean';
16417:  Function IsPolygonal( T : int64; var rank : array of integer ) : boolean';
16418:  Function GeneratePentagon( n : integer ) : integer';
16419:  Function IsPentagon( p : integer ) : boolean';
16420:  Function isSquare( const N : int64 ) : boolean';

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16421: Function isCube( const N : int64 ) : boolean');
16422: Function isPalindrome( const n : int64 ) : boolean');
16423: Function isPalindromel( const n : int64; var len : integer ) : boolean');
16424: Function GetEulerPhi( n : int64 ) : int64');
16425: Function dffIntPower( a, b : int64 ) : int64');
16426: Function IntPowerl( a : extended; b : int64 ) : extended');
16427: Function gcd2( a, b : int64 ) : int64');
16428: Function GCDMany( A : array of integer ) : integer');
16429: Function LCMMany( A : array of integer ) : integer');
16430: Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16431: Function dffFactorial( n : int64 ) : int64');
16432: Function digitcount( n : int64 ) : integer');
16433: Function nextpermute( var a : array of integer ) : boolean');
16434: Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string');
16435: Function convertStringToDecimal( s : string; var n : extended ) : Boolean');
16436: Function InttoBinaryStr( nn : integer ) : string');
16437: Function StrToAngle( const s : string; var angle : extended ) : boolean');
16438: Function AngleToStr( angle : extended ) : string');
16439: Function deg2rad( deg : extended ) : extended');
16440: Function rad2deg( rad : extended ) : extended');
16441: Function GetLongToMercProjection( const long : extended ) : extended');
16442: Function GetLatToMercProjection( const Lat : Extended ) : Extended');
16443: Function GetMercProjectionToLong( const ProjLong : extended ) : extended');
16444: Function GetMercProjectionToLat( const ProjLat : extended ) : extended');
16445: SIRegister_TPrimes(CL);
16446: //RIRegister_TPrimes(CL);
16447: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16448: CL.AddConstantN('minmark','LongInt').SetInt(( 180));
16449: Function Random64( const N : Int64 ) : Int64;');
16450: Procedure Randomize64');
16451: Function Random64l : extended;');
16452: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)//DFFUtils
16453: end;
16454:
16455: procedure SIRegister_UGeometry(CL: TPSPPascalCompiler);
16456: begin
16457:   TrealPoint', 'record x : extended; y : extended; end');
16458:   Tline', 'record pl : TPoint; p2 : TPoint; end');
16459:   TRealLine', 'record pl : TRealPoint; p2 : TRealPoint; end');
16460:   TCircle', 'record cx : integer; cy : integer; r : integer; end');
16461:   TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16462:   PPResult', '( PPOutside, PPIInside, PPVertex, PPEdge, PPError )');
16463:   Function realpoint( x, y : extended ) : TRealPoint');
16464:   Function dist( const pl, p2 : TrealPoint ) : extended');
16465:   Function intdist( const pl, p2 : TPoint ) : integer');
16466:   Function dffline( const pl, p2 : TPoint ) : Tline');
16467:   Function Line1( const pl, p2 : TRealPoint ) : TRealline');
16468:   Function dffCircle( const cx, cy, R : integer ) : TCircle');
16469:   Function Circle1( const cx, cy, R : extended ) : TRealCircle');
16470:   Function GetTheta( const L : TLine ) : extended');
16471:   Function GetTheta( const pl, p2 : TPoint ) : extended');
16472:   Function GetTheta2( const pl, p2 : TRealPoint ) : extended');
16473:   Procedure Extendline( var L : TLine; dist : integer );
16474:   Procedure Extendline1( var L : TRealLine; dist : extended );
16475:   Function Linesintersect( line1, line2 : TLine ) : boolean');
16476:   Function ExtendedLinesIntersect( Line1,Line2:TLine; const extendlines:bool;var IP:TPoint ):bool;
16477:   Function ExtendedLinesIntersect1( const Line1,Line2:TLine;const extendlines:bool;var IP:TRealPoint ):bool;
16478:   Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint ) : boolean');
16479:   Function PointPerpendicularLine( L : TLine; P : TPoint ) : TLine');
16480:   Function PerpDistance( L : TLine; P : TPoint ) : Integer');
16481:   Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended ) : TLine');
16482:   Function AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16483:   Function PointInPoly( const p : TPoint; Points : array of TPoint ) : PPResult');
16484:   Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var Clockwise:boolean):integer;
16485:   Procedure InflatePolygon(const points:array of Tpoint; var points2:array of TPoint;var area:integer;
16486:     const screenCoordinates : boolean; const inflateby : integer)');
16487:   Function PolyBuiltClockwise(const points:array of TPoint;const screencoordinates:boolean):bool;
16488:   Function DegtоРад( d : extended ) : extended');
16489:   Function RadtoDeg( r : extended ) : extended');
16490:   Procedure TranslateLeftTo( var L : TLine; newend : TPoint );
16491:   Procedure TranslateLeftTo1( var L : TrealLine; newend : TrealPoint );
16492:   Procedure RotateRightEndBy( var L : TLine; alpha : extended );
16493:   Procedure RotateRightEndTo( var L : TLine; alpha : extended );
16494:   Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint ) : boolean');
16495:   Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint ) : boolean');
16496:   Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine ) : boolean');
16497:   Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,TL1,TL2:TLine):Bool;
16498: end;
16499:
16500:
16501: procedure SIRegister_UAstronomy(CL: TPSPPascalCompiler);
16502: begin
16503:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGallLonLat )');
16504:   TDAType', '( ttLocal, ttUT, ttGST, ttLST )');
16505:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16506:   TSunrec', 'record TrueEclLon:extended;
16507:     AppEclLon:extended; AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
16508:     TrueAzAl:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRpoint;SunMeanAnomaly:extended;end';

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16507: TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl :'
16508:   +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'
16509:   +'arth : extended; Phase : extended; end');
16510: TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16511:   +'Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDatetime; end');
16512: TEclipseRec', 'record Msg : string; Status : integer; FirstConta'
16513:   +'ct : TDatetime; LastContact : TDatetime; Magnitude:Extended; MaxEclipseUTime:TDatetime; end');
16514: TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16515: TPlanetRec', 'record AsOf : TDatetime; Name : string; MeanLon :'
16516:   +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentricity'
16517:   +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMajorAxis'
16518:   +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16519: TPlanetLocRec', 'record PlanetBaseData : TPlanetRec; HelioCentricLonLat : TRPoint; RadiusVector :'
16520:   extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRPoint; CorrectedEarthDistance:extended;
16521:   ApparentRaDecl:TRPoint; end');
16522: SIRegister_TAstronomy(CL);
16523: Function AngleToStr( angle : extended ) : string');
16524: Function StrToAngle( s : string; var angle : extended ) : boolean';
16525: Function HoursToStr24( t : extended ) : string');
16526: Function RPoint( x, y : extended ) : TRPoint');
16527: Function getStimenename( t : TDTType ) : string');
16528: end;
16529: procedure SIRegister_UCardComponentV2(CL: TPSPascalCompiler);
16530: begin
16531:   TCardValue', 'Integer');
16532:   TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16533:   TShortSuit', '( cardS, cardD, cardC, cardH )');
16534:   Type(TDecks.Standard1, Standard2, Fishes1, Fishes2, Beach, Leaves1, Leaves2, Robot, Roses, Shell, Castle, Hand);
16535:   SIRegister_TCard(CL);
16536:   SIRegister_TDeck(CL);
16537: end;
16538: procedure SIRegister_UTGraphSearch(CL: TPSPascalCompiler);
16539: begin
16540:   tMethodCall', 'Procedure');
16541:   tVerboseCall', 'Procedure ( s : string)');
16542: // PTEdge', '^TEdge // will not work');
16543:   TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer; '
16544:   +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16545:   SIRegister_TNode(CL);
16546:   SIRegister_TGraphList(CL);
16547: end;
16548: procedure SIRegister_UParser10(CL: TPSPascalCompiler);
16549: begin
16550:   ParserFloat', 'extended');
16551:   //PParserFloat', '^ParserFloat // will not work');
16552:   TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod'
16553:   +'ulo, IntDiv, IntDIVZ, integerpower, realpower, square, third, fourth, FuncOneVar, FuncTwoVar ');
16554:   //POperation', '^Operation // will not work');
16555:   TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16556:   +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure'
16557:   +'; Token : TDFFToken; end');
16558:   TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16559:   (CL.FindClass('TOBJECT'), 'EMathParserError');
16560:   CL.FindClass('TOBJECT', 'ESyntaxError');
16561:   (CL.FindClass('TOBJECT'), 'EExpressionHasBlanks');
16562:   (CL.FindClass('TOBJECT'), 'EExpressionTooComplex');
16563:   (CL.FindClass('TOBJECT'), 'ETooManyNestings');
16564:   (CL.FindClass('TOBJECT'), 'EMissMatchingBracket');
16565:   (CL.FindClass('TOBJECT'), 'EBadName');
16566:   (CL.FindClass('TOBJECT'), 'EParseInternalError');
16567:   ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16568:   SIRegister_TCustomParser(CL);
16569:   SIRegister_TExParser(CL);
16570: end;
16571: end;
16572: function isService: boolean;
16573: begin
16574:   result:= NOT(Application is TApplication);
16575:   {result:= Application is TServiceApplication;}
16576: end;
16577: function isApplication: boolean;
16578: begin
16579:   result:= Application is TApplication;
16580: end;
16581: //SM_REMOTESESSION = $1000
16582: function isTerminalSession: boolean;
16583: begin
16584:   result:= GetSystemMetrics(SM_REMOTESESSION) > 0;
16585: end;
16586: procedure SIRegister_cyIEUtils(CL: TPSPascalCompiler);
16587: begin
16588:   CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16589:   +'String; margin_bottom : String; margin_left : String; margin_right : String'
16590:   +'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16591:   Function cyURLEncode( const S : string ) : string');

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16594: Function MakeResourceURL( const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16595: Function MakeResourceURL1( const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;
16596: Function cyColorToHtml( aColor : TColor ) : String';
16597: Function HtmlToColor( aHtmlColor : String ) : TColor';
16598: //Function GetStreamEncoding( aStream : TStream ) : TEncoding';
16599: // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean';
16600: Function AddHtmlUnicodePrefix( aHtml : String ) : String';
16601: Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16602: Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16603: Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16604: CL.AddConstantN('IEBodyBorderless','String').SetString('none');
16605: CL.AddConstantN('IEBodySingleBorder','String').SetString('');
16606: CL.AddConstantN('IEDesignModeOn','String').SetString('On');
16607: CL.AddConstantN('IEDesignModeOff','String').SetString('Off');
16608: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16609: CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16610: end;
16611:
16612:
16613: procedure SIRегистer_UcomboV2(CL: TPSCompiler);
16614: begin
16615:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16616:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe' +
16617:     +'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe' +
16618:     +'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb' +
16619:     +'inationsRepeat, CombinationsRepeatDown ) ');
16620:   CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16621:   SIRегистer_TComboSet(CL);
16622: end;
16623:
16624: procedure SIRегистer_cyBaseComm(CL: TPSCompiler);
16625: begin
16626:   TcyCommandType', '( ctDevelopperDefined, ctUserDefined )');
16627:   TStreamContentType', '( scDevelopperDefined, scUserDefined, scString )');
16628:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16629:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo' +
16630:     +'mmHandle : THandle; aString : String; userParam : Integer )';
16631:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from' +
16632:     +'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16633:   SIRегистer_TcyBaseComm(CL);
16634:   CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16635:   CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16636:   Function ValidatefileMappingName( aName : String ) : String';
16637:   procedure makeCaption(leftSide, Rightside:string; form:TForm);
16638: end;
16639:
16640: procedure SIRегистer_cyDERUtils(CL: TPSCompiler);
16641: begin
16642:   CL.AddTypeS('DERString', 'String');
16643:   CL.AddTypeS('DERChar', 'Char');
16644:   CL.AddTypeS('TElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt' +
16645:     +'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph ) ');
16646:   CL.AddTypeS('TElementsTypes', 'set of TElementsType');
16647:   CL.AddTypeS('DERNString', 'String');
16648:   const DERDecimalSeparator','String').SetString( '.' );
16649:   const DERDefaultChars','String')('+@/%-
16650:   ..:0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ');
16651:   const DERNDefaultChars','String').SetString( '/%.0123456789abcdefghijklmnopqrstuvwxyz' );
16652:   Function isValidWebMailChar( aChar : Char ) : Boolean';
16653:   Function isValidwebSite( aStr : String ) : Boolean';
16654:   Function isValidWebMail( aStr : String ) : Boolean';
16655:   Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16656:   Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16657:   Function IsDERChar( aChar : Char ) : Boolean';
16658:   Function IsDERDefaultChar( aChar : Char ) : Boolean';
16659:   Function IsDERMoneyChar( aChar : Char ) : Boolean';
16660:   Function IsDERExceptionChar( aChar : Char ) : Boolean';
16661:   Function IsDERSymbols( aDERString : String ) : Boolean';
16662:   Function StringToDERCharSet( aStr : String ) : DERString';
16663:   Function IsDERNDefaultChar( aChar : Char ) : Boolean';
16664:   Function IsDERNChar( aChar : Char ) : Boolean';
16665:   Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16666:   Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16667:   Function DERExtractWebMail( aDERStr : DERString ) : String';
16668:   Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16669:   Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16670:   Function DERexecutel(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16671:   Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
aElementsType : TElementsType ) : String';
16672:   Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
Boolean; var RsltDERStr : DERString; var RsltElementType : TElementsType );';
16673: end;
16674:
16675: procedure SIRегистer_cyImage(CL: TPSCompiler);
16676: begin

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16677: pRGBQuadArray', '^TRGBQuadArray // will not work');
16678: Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer');
16679: Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16680: Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16681: Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16682: Procedure BitmapSetPixelsContrast( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16683: Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean)');
16684: Procedure BitmapModifyRGB( Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool);
16685: Procedure BitmapReplaceColor( Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean));')
16686: Procedure BitmapReplaceColor1( Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
PercentRange2Blue:Double;SingleDestinationColor: Boolean;RefreshBmp:Bool;');
16687: Procedure BitmapReplaceColors( Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
SingleDestinationColor, RefreshBmp : Boolean)');
16688: Procedure BitmapResize(SourceBmp TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean)');
16689: Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor)');
16690: Procedure BitmapBlur(SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool;
16691: Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal,Vertical:Bool;
16692: Procedure GraphicMirror1(Source:TGraphic;Destination:TBitmap;Horizontal:Boolean;Vertical:Boolean);');
16693: Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16694: Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word)');
16695: Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String)');
16696: end;
16697:
16698: procedure SIRegister_WaveUtils(CL: TPSPascalCompiler);
16699: begin
16700:   TMS2StrFormat', '( msHMSh, msHMS, msMS, msSh, msS, msAh,msA )');
16701:   TPCMChannel', '( cMono, cStereo )');
16702:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16703:   TPCMBitsPerSample', '( bs8Bit, bs16Bit )');
16704:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono16b'
16705:   +'t6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b'
16706:   +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b'
16707:   +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b'
16708:   +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b'
16709:   +'it48000Hz, Stereo16bit48000Hz )');
16710: PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; '
16711:   +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word; ecbSiz: Word; end');
16712: tWaveFormatEx', 'PWaveFormatEx');
16713: HMMIO', 'Integer');
16714: TWaveDeviceFormats', 'set of TPCMFormat');
16715: TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds'
16716:   +'PlaybackRate, dsPosition, dsAsynchronize, dsDirectSound )');
16717: CL.AddTypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16718: TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16719: TWaveOutOptions', 'set of TWaveOutOption');
16720: TStreamOwnership2', '( soReference, soOwned )');
16721: TWaveStreamState', '( wssReady, wssReading, wssWriting, wssWritingEx )');
16722: // PRawWave', '^PRawWave // will not work');
16723: TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16724: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16725: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16726: CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16727: TWaveAudioEvent', 'Procedure ( Sender : TObject)');
16728: TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var PW'
16729:   +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16730: TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf'
16731:   +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD) : DWORD');
16732: TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu'
16733:   +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean) : DWORD');
16734: TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const '
16735:   +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean)');
16736: TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer)');
16737: TWaveAudioFilterEvent', 'Procedure (Sender : TObject; const Buffer:TObject; BufferSize:DWORD);
16738: GetWaveAudioInfo(mmIO:HMMIO;var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16739: CreateWaveAudio(mmIO: HMMIO; const pWaveFormat:PWaveFormatEx;var ckRIFF,ckData:TMMCKInfo):Bool;
16740: CloseWaveAudio( mmIO : HMMIO; var ckRIFF, ckData : TMMCKInfo)');
16741: GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16742: CreateStreamWaveAudio(Stream: TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,ckData:TMMCKInfo):HMMIO;
16743: OpenStreamWaveAudio( Stream : TStream ) : HMMIO';
16744: CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD) : DWORD');
16745: GetAudioFormat( FormatTag : Word) : String');
16746: GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx) : String');
16747: GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD) : DWORD');
16748: GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx) : DWORD');
16749: GetWaveAudioPeakLevel(const Data : TObject;DataSize:DWORD; const pWaveFormat:PWaveFormatEx): Integer');
16750: InvertWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx): Boolean');
16751: SilenceWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx): Boolean');
16752: ChangeWaveAudioVolume(const Data:TObject;DataSize:DWORD;const pWaveFormat:PWaveFormatEx;Percent:Int):Bool;
16753: MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer :
TObject; BufferSize : DWORD) : Boolean');
16754: ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const
dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD) : Boolean');
16755: SetPCMFormat(const pWaveFormat: PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec :
TPCMSamplesPerSec; BitsPerSample : TPCMBitsPerSample)');
16756: Procedure SetPCMFormatS( const pWaveFormat : PWaveFormatEx; PCMFormat : TPCMFormat)');
16757: GetPCMFormat( const pWaveFormat : PWaveFormatEx) : TPCMFormat');
16758: GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD) : DWORD');

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16759: MS2Str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String';
16760: WaitForSyncObject( SyncObject : THandle; Timeout : DWORD ) : DWORD';
16761: //mnioStreamProc( lpmmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD ) : LRESULT';
16762: end;
16763:
16764: procedure SIRегистer_NamedPipes(CL: TPSPascalCompiler);
16765: begin
16766:   'DEFAULT_PIPE_BUFFER_SIZE','LongInt').SetInt( 4096 );
16767:   CL.AddConstantN('DEFAULT_PIPE_TIMEOUT','LongInt').SetInt( 5000 );
16768:   'PIPE_NAMING_SCHEME','String').SetString( '\%s(pipe)\%s' );
16769:   'WAIT_ERROR','LongWord').SetUInt( DWORD ( $FFFFFF ) );
16770:   'WAIT_OBJECT_1','LongInt').SetInt( WAIT_OBJECT_0 + 1 );
16771:   'STATUS_SUCCESS','LongWord').SetUInt( $00000000 );
16772:   'STATUS_BUFFER_OVERFLOW','LongWord').SetUInt( $80000005 );
16773:   CL.AddTypeS('TPipeDirection', '( pdir_Duplex, pdir_ClientToServer, pdir_ServerToClient )');
16774:   CL.AddTypeS('TPipeType', '( ptyp_BytByte, ptyp_MsgByte, ptyp_MsgMsg )');
16775:   CL.AddTypeS('TOverlappedResult', '( ov_Failed, ov_Pending, ov_MoreData, ov_Complete )');
16776:   SIRегистer_TNamedPipe(CL);
16777:   SIRегистer_TServerPipe(CL);
16778:   SIRегистer_TCClientPipe(CL);
16779:   CL.AddDelphiFunction('Function CalculateTimeout( aBasis : DWORD ) : DWORD');
16780:   Function HasOverlappedIoCompleted( const ov : OVERLAPPED ) : Boolean';
16781:   Function GetOverlappedPipeResult(aHandle:THandle;const ov:OVERLAPPED;var dwBytes:DWORD;bWait:Boolean): TOverlappedResult;
16782:   Function GetStreamAsText( stm : TStream ) : string';
16783:   Procedure SetStreamAsText( const aTxt : string; stm : TStream )';
16784: end;
16785:
16786: procedure SIRегистer_DPUtils(CL: TPSPascalCompiler);
16787: begin
16788:   // CL.AddTypeS('pRGBTripleArray', '^TRGBTripleArray // will not work');
16789:   SIRегистer_TThumbData(CL);
16790:   'PIC_BMP','LongInt').SetInt( 0 );
16791:   'PIC_JPG','LongInt').SetInt( 1 );
16792:   'THUMB_WIDTH','LongInt').SetInt( 60 );
16793:   'THUMB_HEIGHT','LongInt').SetInt( 60 );
16794:   Function IsEqualFile(Filename:string; Size:Integer; LastWriteTime : TDateTime): Boolean';
16795:   Procedure GetFileInfo(Filename : string; var Size : Integer; var LastWriteTime : TDateTime)';
16796:   Function ReadBitmap( Filehandle : Integer; Width, Height : Integer ) : TBitmap';
16797:   Procedure WriteBitmap( Filehandle : Integer; bmp : TBitmap );
16798:   Function OpenPicture( fn : string; var tp : Integer ) : Integer';
16799:   Function ConvertPicture( pi : Integer; tp : Integer ) : TBitmap';
16800:   Function LoadPicture( fn : string; var w, h : Integer ) : TBitmap';
16801:   Function TurnBitmap( bmp : TBitmap; ang : Integer ) : TBitmap';
16802:   Function RotateBitmap( Bitmap : TBitmap; Direction : Integer ) : TBitmap';
16803:   Function StretchBitmap( Canvas : TCanvas; re : TRect; bmp : TBitmap ) : TRect';
16804:   Function ThumbBitmap( Bitmap : TBitmap; Width, Height : Integer ) : TBitmap';
16805:   Procedure ClearFrame( Canvas : TCanvas; Rect : TRect; Width, Height : Integer );
16806:   Procedure FindFiles( path, mask : string; items : TStringList );
16807:   Function LetfileName( s : string ) : string';
16808:   Function LetParentPath( path : string ) : string';
16809:   Function AddBackSlash( path : string ) : string';
16810:   Function CutBackSlash( path : string ) : string';
16811: end;
16812:
16813: procedure SIRегистer_CommonTools(CL: TPSPascalCompiler);
16814: begin
16815:   //BYTES','LongInt').SetInt( 1 );
16816:   'KBYTES','LongInt').SetInt( 1024 );
16817:   'DBG_ALIVE','LongWord').SetUInt( Integer ( $11BABEL1 ) );
16818:   'DBG_DESTROYING','LongWord').SetUInt( Integer ( $44FADE44 ) );
16819:   'DBG_GONE','LongWord').SetUInt( $99AC1D99 );
16820:   'SHELL_NS_MYCOMPUTER','String').SetString( ':::{20D04FE0-3AEA-1069-A2D8-08002B30309D}' );
16821:   SIRегистer_MakeComServerMethodsPublic(CL);
16822:   CL.AddTypeS('TSomeFileInfo', '( fi_DisplayType, fi_Application )');
16823:   Function IsFlagSet( dwTestForFlag, dwFlagSet : DWORD ) : Boolean';
16824:   Procedure TBSetFlag( const dwThisFlag : DWORD; var dwFlagSet : DWORD; aSet : Boolean );
16825:   Function TBGetTempFolder : string';
16826:   Function TBGetTempFile : string';
16827:   Function TBGetModuleFilename : string';
16828:   Function FormatModuleVersionInfo( const aFilename : string ) : string';
16829:   Function GetVersionInfoString( const aFile, aEntry : string; aLang : WORD ) : string';
16830:   Function TBGetFileSize( aFile : string; aMultipleOf : Integer ) : Integer';
16831:   Function FormatAttribString( aAttr : Integer ) : string';
16832:   Function GetSomeFileInfo( aFile : string; aWhatInfo : TSomeFileInfo ) : string';
16833:   Function ShellRecycle( aWnd : HWND; aFileOrFolder : string ) : Boolean';
16834:   Function IsDebuggerPresent : BOOL';
16835:   Function TBNotImplemented : HRESULT';
16836: end;
16837:
16838: procedure SIRегистer_D2_VistaHelperU(CL: TPSPascalCompiler);
16839: begin
16840:   //CL.AddTypeS('OSVERSIONINFOEXA', '_OSVERSIONINFOEXA');
16841:   //CL.AddTypeS('TOSVersionInfoExA', '_OSVERSIONINFOEXA');
16842:   CL.AddTypeS('TOSVersionInfoEx', 'TOSVersionInfo');
16843:   CL.AddTypeS('TDrivesProperty', 'array[1..26] of boolean');
16844:   //TDrivesProperty = array['A'..'Z'] of boolean;
16845:   Function TBSetSystemTime( DateTime : TDateTime; DOW : word ) : boolean';
16846:   Function IsElevated : Boolean';

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16847: Procedure CoCreateInstanceAsAdmin(aHWnd:HWND;const aClassID:GUID;const aIID:GUID;out aObj:TObject);
16848:   CL.AddTypeS('TPasswordUsage', '( pu_None, pu_Default, pu_Defined )');
16849: Function TrimNetResource( UNC : string ) : string';
16850: Procedure GetFreeDrives( var FreeDrives : TDrivesProperty );
16851: Procedure GetMappedDrives( var MappedDrives : TDrivesProperty );
16852: Function MapDrive( UNCPPath : string; Drive : char; PasswordUsage : TPasswordUsage; Password : string;
UserUsage : TPasswordUsage; User : string; Comment : string ) : boolean';
16853: Function UnmapDrive( Drive : char; Force : boolean ) : boolean';
16854: Function TBIsWindowsVista : Boolean';
16855: Procedure SetVistaFonts( const AForm : TForm );
16856: Procedure SetVistaContentFonts( const AFont : TFont );
16857: Function GetProductType( var sType : String ) : Boolean';
16858: Function lstrcmp( lpString1, lpString2 : PChar ) : Integer';
16859: Function lstrcmpi( lpString1, lpString2 : PChar ) : Integer';
16860: Function lstrcpyn( lpString1, lpString2 : PChar; iMaxLength : Integer ) : PChar';
16861: Function lstrcpy( lpString1, lpString2 : PChar ) : PChar';
16862: Function lstrcat( lpString1, lpString2 : PChar ) : PChar';
16863: Function lstrlen( lpString : PChar ) : Integer';
16864: Function GetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD; var ReturnLength : DWORD ) : BOOL';
16865: Function SetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD ) : BOOL';
16866: end;
16867:
16868:
16869: {A simple Oscilloscope using TWaveIn class.
16870: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
16871: uses
16872:   Forms,
16873:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
16874:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
16875:   uColorFunctions in 'uColorFunctions.pas',
16876:   AMixer in 'AMixer.pas',
16877:   uSettings in 'uSettings.pas',
16878:   UWavein4 in 'UWavein4.pas',
16879:   U_Spectrum4 in 'U_Spectrum4.pas' {Form2},
16880:   ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
16881:
16882:
16883: Functions_max hex in the box maxbox
16884: functionslist.txt
16885: FunctionsList1 3.9.9.86/88/91/92/94/95/96/98
16886:
16887: ****
16888: Procedure
16889: PROCEDURE SIZE 7507 7401 6792 6310 5971 4438 3797 3600 7881
16890: Procedure *****Now the Procedure list*****
16891: Procedure ( ACol, ARow : Integer; Items : TStrings)
16892: Procedure ( Agg : TAggregate)
16893: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
16894: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
16895: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
16896: Procedure ( ASender : TObject; const ABytes : Integer)
16897: Procedure ( ASender : TObject; VStream : TStream)
16898: Procedure ( AThread : TIdThread)
16899: Procedure ( AWebModule : TComponent)
16900: Procedure ( Column : TColumn)
16901: Procedure ( const AUsername : String; const APassword : String; AAAuthenticationResult : Boolean)
16902: Procedure ( const iStart : integer; const sText : string)
16903: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
16904: Procedure ( Database : TDatabase; LoginParams : TStrings)
16905: Procedure ( DataSet:TCustomClientDataSet;E:EReconcileError;UpdateKind:TUpdateKind;var
Action:TReconcileAction)
16906: Procedure ( DATASET : TDATASET)
16907: Procedure ( DataSet:TDataSet; E:EDatabaseError;UpdateKind:TUpdateKind;var UpdateAction: TUpdateAction)
16908: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
16909: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
16910: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
16911: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
16912: Procedure ( Done : Integer)
16913: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
16914: Procedure ( HeaderControl:TCustomHeaderControl;Section:THeaderSection; const Rect:TRect;Pressed:Boolean)
16915: Procedure
  (HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState)
16916: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
16917: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
16918: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
16919: Procedure ( Sender: TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
16920: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
16921: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
16922: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
16923: Procedure ( SENDER : TFIELD; const TEXT : String)
16924: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : Boolean)
16925: Procedure ( Sender : TIdTelnet; const Buffer : String)
16926: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
16927: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : Boolean)
16928: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
16929: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : Integer)
16930: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)

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16931: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
16932: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
16933: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
16934: Procedure ( Sender : TObject; Button : TMPBtnType)
16935: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
16936: Procedure ( Sender : TObject; Button : TUDBtnType)
16937: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
16938: Procedure ( Sender : TObject; ClientSocket : TServerClientWinSocket; var SocketThread : TServerClientThread)
16939: Procedure ( Sender : TObject; Column : TListColumn)
16940: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
16941: Procedure ( Sender : TObject; Connecting : Boolean)
16942: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var DoneDraw:Bool)
16943: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
16944: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
16945: Procedure ( Sender : TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
16946: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
16947: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
16948: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
16949: Procedure ( Sender : TObject; Index : LongInt)
16950: Procedure ( Sender : TObject; Item : TListItem)
16951: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
16952: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
16953: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
16954: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
16955: Procedure ( Sender : TObject; Item : TListItem; var S : string)
16956: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
16957: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
16958: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
16959: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
16960: Procedure ( Sender : TObject; Node : TTreenode)
16961: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
16962: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
16963: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
16964: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
16965: Procedure ( Sender : TObject; Node : TTreenode; var S : string)
16966: Procedure ( Sender : TObject; Node1, Node2 : TTreenode; Data : Integer; var Compare : Integer)
16967: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
16968: Procedure ( Sender : TObject; Rect : TRect)
16969: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
16970: Procedure ( Sender:TObject;Shift:TShiftState;X,Y:Integer;Orient:TPageScrollerOrientation;var Delta:Int)
16971: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
16972: Procedure ( Sender:TObject; Socket:TCustomWinSocket;ErrorEvent: TErrorEvent; var ErrorCode : Integer)
16973: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
16974: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
16975: Procedure ( SENDER : TOBJECT; SOURCE : TMENUTITEM; REBUILD : BOOLEAN)
16976: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
16977: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
16978: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
16979: Procedure ( Sender : TObject; Thread : TServerClientThread)
16980: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
16981: Procedure ( Sender : TObject; Username, Password : string)
16982: Procedure ( Sender : TObject; var AllowChange : Boolean)
16983: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction:TUpDownDirection)
16984: Procedure ( Sender : TObject; var Caption : string; var Alignment : THMLCaptionAlignment)
16985: Procedure ( Sender : TObject; var Continue : Boolean)
16986: Procedure ( Sender:TObject;var dest:string;var NumRedirect:Int;var Handled:bool; var VMETHOD:TIdHTTPMethod)
16987: Procedure ( Sender : TObject; var Username : string)
16988: Procedure ( Sender : TObject; Wnd : HWND)
16989: Procedure ( Sender : TToolbar; Button : TToolbutton)
16990: Procedure ( Sender : TToolBar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
16991: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
16992: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
16993: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolbutton)
16994: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
16995: Procedure ( StatusBar : TStatusbar; Panel : TStatusPanel; const Rect : TRect)
16996: Procedure ( var FieldNames:TWideStrings;SQL:WideString; var BindAllFields:Boolean;var TableName: WideString)
16997: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
16998: procedure (Sender: TObject)
16999: procedure (Sender: TObject; var Done : Boolean)
17000: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
17001: procedure _T(Name: tbtString; v: Variant);
17002: Procedure AbandonSignalHandler( RtlSigNum : Integer)
17003: Procedure Abort
17004: Procedure About1Click( Sender : TObject)
17005: Procedure Accept( Socket : TSocket)
17006: Procedure AESSymmetricExecute(const plaintext, ciphertext, password: string)
17007: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
17008: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
17009: Procedure AESEncryptString(const plaintext: string; var ciphertext: string; password: string)
17010: Procedure AESDecryptString(var plaintext: string; const ciphertext: string; password: string)
17011: Procedure Add( Addend1, Addend2 : TMyBigInt)
17012: Procedure ADD( const AKEY, AVALUE : VARIANT)
17013: Procedure Add( const Key : string; Value : Integer)
17014: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
17015: Procedure ADD( FIELD : TFIELD)
17016: Procedure ADD( ITEM : TMENUITEM)
17017: Procedure ADD( POPUP : TPOPUPMENU)
17018: Procedure AddCharacters( xCharacters : TCharSet)

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17019: Procedure AddDriver( const Name : string; List : TStrings)
17020: Procedure AddImages( Value : TCustomImageList)
17021: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
17022: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
17023: Procedure AddLoader( Loader : TBitmapLoader)
17024: Procedure ADDPARAM( VALUE : TPARAM)
17025: Procedure AddPassword( const Password : string)
17026: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
17027: Procedure AddState( oState : TniRegularExpressionState)
17028: Procedure AddStrings( Strings : TStrings);
17029: procedure AddStrings(Strings: TStrings);
17030: Procedure AddStrings1( Strings : TWideStrings);
17031: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
17032: Procedure AddToRecentDocs( const Filename : string)
17033: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
17034: Procedure AllFunctionsList1Click( Sender : TObject)
17035: procedure AllObjectsList1Click(Sender: TObject);
17036: Procedure Allocate( AAllocateBytes : Integer)
17037: procedure AllResourceList1Click(Sender: TObject);
17038: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
17039: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
17040: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
17041: Procedure AnsiFree( var s : AnsiString)
17042: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
17043: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
17044: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
17045: Procedure Ansistring_to_stream( const Value : ansistring; Destin : TStream)
17046: Procedure AntiFreeze;
17047: Procedure APPEND
17048: Procedure Append( const S : WideString)
17049: procedure Append(S: string);
17050: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
17051: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
17052: Procedure AppendChunk( Val : OleVariant)
17053: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
17054: Procedure AppendStr( var Dest : string; S : string)
17055: Procedure AppendString( var VBytes : TIdBytes; const AStr : String; ALength : Integer)
17056: Procedure ApplyRange
17057: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17058: Procedure Arrange( Code : TListArrangement)
17059: procedure Assert(expr : Boolean; const msg: string);
17060: procedure Assert2(expr : Boolean; const msg: string);
17061: Procedure Assign( Alist : TCustomBucketList)
17062: Procedure Assign( Other : TObject)
17063: Procedure Assign( Source : TDragObject)
17064: Procedure Assign( Source : TPersistent)
17065: Procedure Assign(Source: TPersistent)
17066: procedure Assign2(mystring, mypath: string);
17067: Procedure AssignCurValues( Source : TDataSet);
17068: Procedure AssignCurValues1( const CurValues : Variant);
17069: Procedure ASSIGNFIELD( FIELD : TFIELD)
17070: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
17071: Procedure AssignFile(var F: Text; FileName: string)
17072: procedure AssignFile(var F: TextFile; FileName: string)
17073: procedure AssignFileRead(var mystring, myfilename: string);
17074: procedure AssignFileWrite(mystring, myfilename: string);
17075: Procedure AssignTo( Other : TObject)
17076: Procedure AssignValues( Value : TParameters)
17077: Procedure ASSIGNVALUES( VALUE : TPARAMS)
17078: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
17079: Procedure Base64_to_stream( const Base64 : ansistring; Destin : TStream)
17080: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
17081: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
17082: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
17083: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
17084: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
17085: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
17086: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
17087: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
17088: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
17089: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
17090: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
17091: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
17092: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
17093: procedure Beep
17094: Procedure BeepOk
17095: Procedure BeepQuestion
17096: Procedure BeepHand
17097: Procedure BeepExclamation
17098: Procedure BeepAsterisk
17099: Procedure BeepInformation
17100: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
17101: Procedure BeginLayout
17102: Procedure BeginTimer( const Delay, Resolution : Cardinal)
17103: Procedure BeginUpdate
17104: procedure BeginUpdate;
17105: procedure BigScreen1Click(Sender: TObject);
17106: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
17107: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);

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17108: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
17109: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
17110: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
17111: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
17112: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
17113: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
17114: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
17115: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
17116: Procedure BreakPointMenuClick( Sender : TObject)
17117: procedure BRINGTOFRONT
17118: procedure BringToFront;
17119: Procedure btnBackClick( Sender : TObject)
17120: Procedure btnBrowseClick( Sender : TObject)
17121: Procedure BtnClick( Index : TNavigateBtn)
17122: Procedure btnLargeIconsClick( Sender : TObject)
17123: Procedure BuildAndSendRequest( AURI : TIdURI)
17124: Procedure BuildCache
17125: Procedure BurnMemory( var Buff, BuffLen : integer)
17126: Procedure BurnMemoryStream( Destrukt : TMemoryStream)
17127: Procedure CalculateFirstSet
17128: Procedure Cancel
17129: procedure CancelDrag;
17130: Procedure CancelEdit
17131: procedure CANCELHINT
17132: Procedure CancelRange
17133: Procedure CancelUpdates
17134: Procedure CancelWriteBuffer
17135: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
17136: Procedure Capture2(ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
17137: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool);
17138: procedure CaptureScreenFormat(vname: string; vextension: string);
17139: procedure CaptureScreenPNG(vname: string);
17140: procedure CardinalsToI64(var I : Int64; const LowPart, HighPart: Cardinal);
17141: procedure CASCADE
17142: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
17143: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);
17144: Procedure cbPathClick( Sender : TObject)
17145: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
17146: Procedure cedebugAfterExecute( Sender : TPSScript)
17147: Procedure cedebugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
17148: Procedure cedebugCompile( Sender : TPSScript)
17149: Procedure cedebugExecute( Sender : TPSScript)
17150: Procedure cedebugIdle( Sender : TObject)
17151: Procedure cedebugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal)
17152: Procedure CenterHeight( const pc, pcParent : TControl)
17153: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
17154: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
17155: Procedure Change
17156: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
17157: Procedure Changed
17158: Procedure ChangeDir( const ADirName : string)
17159: Procedure ChangeDirUp
17160: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState)
17161: Procedure ChangeLevelBy( Value : TChangeRange)
17162: Procedure ChDir(const s: string)
17163: Procedure Check(Status: Integer)
17164: Procedure CheckCommonControl( CC : Integer)
17165: Procedure CHECKFIELDNAME( const FIELDNAME : String)
17166: Procedure CHECKFIELDNAMES( const FIELDNAMES : String)
17167: Procedure CheckForDisconnect(const ARaiseExceptionIfDisconnected: boolean;const AIgnoreBuffer:bool)
17168: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean)
17169: Procedure CheckToken( T : Char)
17170: procedure CheckToken(t:char)
17171: Procedure CheckTokenSymbol( const S : string)
17172: procedure CheckTokenSymbol(s:string)
17173: Procedure CheckToolMenuDropdown( ToolButton : TToolButton)
17174: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17175: Procedure CIED65ToCIED50( var X, Y, Z : Extended)
17176: Procedure CIELABtoBGR( const Source, Target : Pointer; const Count : Cardinal);
17177: procedure CipherFile1Click(Sender: TObject);
17178: Procedure Clear;
17179: Procedure Clear1Click( Sender : TObject)
17180: Procedure ClearColor( Color : TColor)
17181: Procedure CLEARITEM( AITEM : TMENUITEM)
17182: Procedure ClearMapping
17183: Procedure ClearSelection( KeepPrimary : Boolean)
17184: Procedure ClearWriteBuffer
17185: Procedure Click
17186: Procedure Close
17187: Procedure Close1Click( Sender : TObject)
17188: Procedure CloseDatabase( Database : TDatabase)
17189: Procedure CloseDataSets
17190: Procedure CloseDialog
17191: Procedure CloseFile(var F: Text);
17192: Procedure Closure
17193: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17194: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17195: Procedure CodeCompletionList1Click( Sender : TObject)
17196: Procedure ColEnter

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17197: Procedure Collapse
17198: Procedure Collapse( Recurse : Boolean )
17199: Procedure ColorRGBToHLS( clrRGB : TColorRef; var Hue, Luminance, Saturation : Word )
17200: Procedure CommaSeparatedToStringList( Alist : TStrings; const Value : string )
17201: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction )
17202: Procedure Compile1Click( Sender : TObject )
17203: procedure ComponentCount1Click(Sender: TObject);
17204: Procedure Compress(azipfolder, azipfile: string)
17205: Procedure DeCompress(azipfolder, azipfile: string)
17206: Procedure XZip(azipfolder, azipfile: string)
17207: Procedure XUnZip(azipfolder, azipfile: string)
17208: Procedure Connect( const ATimeout : Integer )
17209: Procedure Connect( Socket : TSocket )
17210: procedure Console1Click(Sender: TObject);
17211: Procedure Continue
17212: Procedure ContinueCount( var Counter : TJclCounter )
17213: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
17214: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer )
17215: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer )
17216: Procedure ConvertImage(vsource, vdestination: string);
17217: // Ex. ConvertImage(Exepath+'my233.bmp',Exepath+'mypng111.png')
17218: Procedure ConvertBitmap(vsource, vdestination: string);
17219: Procedure ConvertToGray(Cnv: TCanvas);
17220: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer )
17221: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer );
17222: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer );
17223: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
17224: Procedure CopyBytesToHostWord( const ASource : TIddBytes; const ASourceIndex : Integer; var VDest : Word )
17225: Procedure CopyFrom( mbCopy : TMyBigInt )
17226: Procedure CopyMemoryStream( Source, Destination : TMemoryStream )
17227: procedure CopyRect(const Dest: TRect; Canvas: TCanvas;const Source: TRect);
17228: Procedure CopyTIDByteArray( const ASource : array of Byte; const ASourceIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALengh : Integer )
17229: Procedure CopyTIDBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int )
17230: Procedure CopyTIDCardinal( const ASource : Cardinal; var VDest : TIddBytes; const ADestIndex : Integer )
17231: Procedure CopyTIDInt64( const ASource : Int64; var VDest : TIddBytes; const ADestIndex : Integer )
17232: Procedure CopyTIDIPv6Address(const ASource:TIdIPv6Address; var VDest: TIddBytes; const ADestIndex : Integer )
17233: Procedure CopyTIDLongWord( const ASource : LongWord; var VDest : TIddBytes; const ADestIndex : Integer )
17234: Procedure CopyTIDNetworkLongWord( const ASource : LongWord; var VDest : TIddBytes; const ADestIndex:Integer )
17235: Procedure CopyTIDNetworkWord( const ASource : Word; var VDest : TIddBytes; const ADestIndex : Integer )
17236: Procedure CopyTIDString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer )
17237: Procedure CopyTIDWord( const ASource : Word; var VDest : TIddBytes; const ADestIndex : Integer )
17238: Procedure CopyToClipboard
17239: Procedure CountParts
17240: Procedure CreateDataSet
17241: Procedure CreateEmptyFile( const FileName : string )
17242: Procedure CreateFromFileFromString( const FileName, Data : string )
17243: Procedure CreateFromDelta( Source : TPacketDataSet )
17244: procedure CREATEHANDLE
17245: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
17246: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar )
17247: Procedure CreateTable
17248: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString )
17249: procedure CSyntax1Click(Sender: TObject);
17250: Procedure CurrencyToComp( Value : Currency; var Result : Comp )
17251: Procedure CURSORPOSCHANGED
17252: procedure CutFirstDirectory(var S: String)
17253: Procedure DataBaseError(const Message: string)
17254: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime );
17255: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
17256: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime )
17257: procedure DateToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
17258: Procedure DBIError(errorCode: Integer)
17259: Procedure DebugOutput( const AText : string )
17260: Procedure DebugRun1Click( Sender : TObject )
17261: procedure Dec;
17262: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word )
17263: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
17264: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word )
17265: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth,AWeekOfMonth,ADayOfWeek : Word )
17266: Procedure DecodeDateTime(const AValue:TDateTime;out AYear,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
17267: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word )
17268: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
17269: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word )
17270: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word );
17271: Procedure Decompile1Click( Sender : TObject )
17272: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState )
17273: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState )
17274: Procedure DeferLayout
17275: Procedure deffileread
17276: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL;REMOVING:BOOLEAN)
17277: Procedure DelayMicroseconds( const MicroSeconds : Integer )
17278: Procedure Delete
17279: Procedure Delete( const AFilename : string )
17280: Procedure Delete( const Index : Integer )
17281: Procedure DELETE( INDEX : INTEGER )
17282: Procedure Delete( Index : LongInt )
17283: Procedure Delete( Node : TTreeNode )

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17284: procedure Delete(var s: AnyString; ifrom, icount: Longint);
17285: Procedure DeleteAlias( const Name : string)
17286: Procedure DeleteDriver( const Name : string)
17287: Procedure DeleteIndex( const Name : string)
17288: Procedure DeleteKey( const Section, Ident : String)
17289: Procedure DeleteRecords
17290: Procedure DeleteRecords( AffectRecords : TAffectRecords)
17291: Procedure DeleteString( var pStr : String; const pDelStr : string)
17292: Procedure DeleteTable
17293: procedure DelphiSitelClick(Sender: TObject);
17294: Procedure Deselect
17295: Procedure Deselect( Node : TTreeNode)
17296: procedure DestroyComponents
17297: Procedure DestroyHandle
17298: Procedure Diff( var X : array of Double)
17299: procedure Diff(var X: array of Double);
17300: Procedure DirCreate( const DirectoryName : String)');
17301: procedure DISABLEALIGN
17302: Procedure DisableConstraints
17303: Procedure Disconnect
17304: Procedure Disconnect( Socket : TSocket)
17305: Procedure Dispose
17306: procedure Dispose(P: PChar)
17307: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
17308: Procedure DoKey( Key : TDBCtrlGridKey)
17309: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17310: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17311: Procedure Dormant
17312: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
17313: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
17314: Procedure DoubleToComp( Value : Double; var Result : Comp)
17315: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
17316: procedure Draw(X, Y: Integer; Graphic: TGraphic);
17317: Procedure Draw(Canvas:TCanvas; X,Y,
  Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);
17318: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17319: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
17320: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17321: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGriddrawState)
17322: procedure DrawFocusRect(const Rect: TRect);
17323: Procedure DrawHIBToTBitmap( HDIB : THandle; Bitmap : TBitmap)
17324: Procedure DRAWMENUTITEM( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17325: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled: Boolean);
17326: Procedure DrawOverlay1(Canvas:TCanvas;X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
  TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
17327: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
17328: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
17329: Procedure DropConnections
17330: Procedure DropDown
17331: Procedure DumpDescription( oStrings : TStrings)
17332: Procedure DumpStateTable( oStrings : TStrings)
17333: Procedure EDIT
17334: Procedure EditButtonClick
17335: Procedure EditFont1Click( Sender : TObject)
17336: procedure Ellipse(X1, Y1, X2, Y2: Integer);
17337: Procedure Ellipse1( const Rect : TRect);
17338: Procedure EMMS
17339: Procedure Encode( ADest : TStream)
17340: procedure ENDDRAG(DROP:BOOLEAN)
17341: Procedure EndEdit( Cancel : Boolean)
17342: Procedure EndTimer
17343: Procedure EndUpdate
17344: Procedure EraseSection( const Section : string)
17345: Procedure Error( const Ident : string)
17346: procedure Error(Ident:Integer)
17347: Procedure ErrorFmt( const Ident : string; const Args : array of const)
17348: Procedure ErrorStr( const Message : string)
17349: procedure ErrorStr(Message:String)
17350: Procedure Exchange( Index1, Index2 : Integer)
17351: procedure Exchange(Index1, Index2: Integer);
17352: Procedure Exec( FileName, Parameters, Directory : string)
17353: Procedure ExecProc
17354: Procedure ExecSQL( UpdateKind : TUpdateKind)
17355: Procedure Execute
17356: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
17357: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
17358: Procedure ExecuteCommand(executeFile, paramstring: string)
17359: Procedure ExecuteShell(executeFile, paramstring: string)
17360: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
17361: Procedure ExitThread(ExitCode: Integer); stdcall;
17362: Procedure ExitProcess(ExitCode: Integer); stdcall;
17363: Procedure Expand( AUserName : String; AResults : TStrings)
17364: Procedure Expand( Recurse : Boolean)
17365: Procedure ExportClipboard1Click( Sender : TObject)
17366: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
17367: Procedure ExtractContentFields( Strings : TStrings)
17368: Procedure ExtractCookieFields( Strings : TStrings)
17369: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
17370: Procedure ExtractHeaderFields(Separ,
  WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)

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17371: Procedure ExtractHTTPFields(Separators,WhiteSpace:
17372:   TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
17373: Procedure ExtractQueryFields( Strings : TStrings)
17374: Procedure FastDegToGrad
17375: Procedure FastDegToRad
17376: Procedure FastGradToDeg
17377: Procedure FastGradToRad
17378: Procedure FastRadToGrad
17379: Procedure FileClose( Handle : Integer)
17380: Procedure FileClose(handle: integer)
17381: procedure FilesFromWildcard(Dir,Mask:string;var Files:TStringList;Subdirs>ShowDirs,Multitasking:Bool)
17382: Procedure FileStructure( AStructure : TIIdFTPDataStructure)
17383: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
17384: Procedure FillBytes( var VBytes : TIddBytes; const ACount : Integer; const AValue : Byte)
17385: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
17386: Procedure FillChar2(var X: PChar ; count: integer; value: char)
17387: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
17388: Procedure FillIPList
17389: procedure FillRect(const Rect: TRect);
17390: Procedure FillTStrings( AStrings : TStrings)
17391: Procedure FilterOnBookmarks( Bookmarks : array of const)
17392: procedure FinalizePackage(Module: HMODULE)
17393: procedure FindClose;
17394: procedure FindClose2(var F: TSearchRec)
17395: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent);
17396: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent);
17397: Procedure FindNearest( const KeyValues : array of const)
17398: Procedure FinishContext
17399: Procedure FIRST
17400: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
17401: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
17402: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
17403: Procedure FlushSchemaCache( const TableName : string)
17404: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
17405: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
17406: Procedure Form1Close( Sender : TObject; var Action : TCloseAction)
17407: Procedure FormActivate( Sender : TObject)
17408: procedure FormatIn(const format: String; const args: array of const); //alias
17409: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17410: Procedure FormCreate( Sender : TObject)
17411: Procedure FormDestroy( Sender : TObject)
17412: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17413: procedure FormOutput1Click(Sender : TObject);
17414: Procedure FormToHTML( Form : TForm; Path : string)
17415: procedure FrameRect(const Rect: TRect);
17416: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
17417: Procedure NotebookHandlesNeeded( Notebook : TNotebook)
17418: Procedure Free( Buffer : TRecordBuffer)
17419: Procedure Free( Buffer : TValueBuffer)
17420: Procedure Free;
17421: Procedure FreeAndNil(var Obj:TObject)
17422: Procedure FreeImage
17423: procedure FreeMem(P: PChar; Size: Integer)
17424: Procedure FreeTreeData( Tree : TUpdateTree)
17425: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
17426: Procedure FullCollapse
17427: Procedure FullExpand
17428: Procedure GenerateDPB(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
17429: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
17430: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
17431: Procedure Get1( AURL : string; const AResponseContent : TStream);
17432: Procedure Get1( const ASourceFile : string; ADest : TStream; AResume : Boolean);
17433: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
17434: Procedure GetAliasNames( List : TStrings)
17435: Procedure GetAliasParams( const AliasName : string; List : TStrings)
17436: Procedure GetApplicationsRunning( Strings : TStrings)
17437: Procedure getBox(aURL, extension: string);
17438: Procedure GetCommandTypes( List : TWideStrings)
17439: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
17440: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
17441: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
17442: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
17443: Procedure GetDatabaseNames( List : TStrings)
17444: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
17445: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
17446: Procedure GetDir(d: byte; var s: string)
17447: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
17448: Procedure GetDriverNames( List : TStrings)
17449: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
17450: Procedure GetDriverParams( const DriverName : string; List : TStrings)
17451: Procedure GetEmails1Click( Sender : TObject)
17452: Procedure getEnvironmentInfo;
17453: Function getEnvironmentString: string;
17454: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
17455: Procedure GetFieldNames( const TableName : string; List : TStrings)
17456: Procedure GetFieldNames( const TableName : string; List : TStrings);
17457: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
17458: Procedure GETFIELDNAMES( LIST : TSTRINGS)

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17459: Procedure GetFieldNames1( const TableName : string; List : TStrings);
17460: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
17461: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
17462: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
17463: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
17464: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
17465: Procedure GetFMTBcd( Buffer : TRecordBuffer; var value : TBcd)
17466: Procedure GetFormatSettings
17467: Procedure GetFromDIB( var DIB : TBitmapInfo)
17468: Procedure GetFromHDC( HDIB : HBitmap)
17469: Procedure GetIcon( Index : Integer; Image : TIcon);
17470: Procedure GetIcon1( Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
17471: Procedure GetIndexInfo( IndexName : string)
17472: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
17473: Procedure GetIndexNames( List : TStrings)
17474: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
17475: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
17476: Procedure GetIndexNames4( const TableName : string; List : TStrings);
17477: Procedure GetInternalResponse
17478: Procedure GETITEMNAMES( LIST : TSTRINGS)
17479: procedure GetMem(P: PChar; Size: Integer)
17480: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
17481: procedure GetPackageDescription(ModuleName: PChar): string
17482: Procedure GetPackageNames( List : TStrings);
17483: Procedure GetPackageNames1( List : TWideStrings);
17484: Procedure GetParamList( List : TList; const ParamNames : WideString)
17485: Procedure GetProcedureNames( List : TStrings);
17486: Procedure GetProcedureNames( List : TWideStrings);
17487: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
17488: Procedure GetProcedureNames1( List : TStrings);
17489: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
17490: Procedure GetProcedureNames3( List : TWideStrings);
17491: Procedure GetProcedureNames4( const PackageName : Widestring; List : TWideStrings);
17492: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);
17493: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
17494: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
17495: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : Widestring; List : TList);
17496: Procedure GetProviderNames( Names : TWideStrings);
17497: Procedure GetProviderNames( Proc : TGetStrProc)
17498: Procedure GetProviderNames1( Names : TStrings);
17499: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; apath: string);
17500: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;apath:string); //no open image
17501: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const Data:string;aformat:string):TLinearBitmap;
17502: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte)
17503: Procedure GetSchemaNames( List : TStrings);
17504: Procedure GetSchemaNames1( List : TWideStrings);
17505: Procedure getScriptandRunAsk;
17506: Procedure getScriptandRun(ascript: string);
17507: Procedure getScript(ascript: string); //alias
17508: Procedure getWebScript(ascript: string); //alias
17509: Procedure GetSessionNames( List : TStrings)
17510: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings)
17511: Procedure GetStrings( List : TStrings)
17512: Procedure GetSystemTime; stdcall;
17513: Procedure GetTableNames(const DatabaseName,Pattern:string;Extensions,SystemTables:Boolean;List:TStrings)
17514: Procedure GetTableNames( List : TStrings; SystemTables : Boolean)
17515: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17516: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
17517: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
17518: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
17519: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
17520: Procedure GetTransitionsOn( cChar: char; oStateList : TList)
17521: Procedure GetVisibleWindows( List : TStrings)
17522: Procedure GoBegin
17523: Procedure GotoCurrent( DataSet : TCustomClientDataSet)
17524: Procedure GotoCurrent( Table : TTable)
17525: procedure GotoEnd1Click(Sender: TObject);
17526: Procedure GotoNearest
17527: Procedure GradientFillCanvas(const ACanvas:TCanvas;const AStartCol,AEndCol:TColor;const ARect:TRect;const Direction:TGradientDirection)
17528: Procedure HandleException( E : Exception; var Handled : Boolean)
17529: procedure HANDLEMESSAGE
17530: procedure HandleNeeded;
17531: Procedure Head( AURL : string)
17532: Procedure Help( var AHelpContents : TStringList; ACommand : string)
17533: Procedure HexToBinary( Stream : TStream)
17534: procedure HexToBinary(Stream:TStream)
17535: Procedure HideDragImage
17536: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean)
17537: Procedure HideTraybar
17538: Procedure HideWindowForSeconds(secs: integer); //3 seconds
17539: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
17540: Procedure HookOSExceptions
17541: Procedure HookSignal( RtlSigNum : Integer)
17542: Procedure HSLtoRGB( const H, S, L : Single; out R, G, B : Single);
17543: Procedure HTMLEyntax1Click( Sender : TObject)
17544: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
17545: Procedure IFPS3ClassesPlugin1ExecImport( Sender : TObject; Exec : TPSEexec; x : TPSRuntimeClassImporter)

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17546: Procedure ImportfromClipboard1Click( Sender : TObject )
17547: Procedure ImportfromClipboard2Click( Sender : TObject )
17548: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer )
17549: procedure Incb(var x: byte);
17550: Procedure IncludeClick( Sender : TObject )
17551: Procedure IncludeOFF; //preprocessing
17552: Procedure IncludeON;
17553: procedure Info1Click(Sender: TObject);
17554: Procedure InitAltRecBuffers( CheckModified : Boolean )
17555: Procedure InitContext( Request : TWebRequest; Response : TWebResponse )
17556: Procedure InitContext( WebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse )
17557: Procedure InitData( ASource : TDataSet )
17558: Procedure InitDelta( ADelta : TPacketDataSet );
17559: Procedure InitDelta1( const ADelta : OleVariant );
17560: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse )
17561: Procedure Initialize
17562: procedure InitializePackage(Module: HMODULE)
17563: Procedure INITIACTION
17564: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char;'
17565: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet )
17566: Procedure InitModule( AModule : TComponent )
17567: Procedure InitStdConvs
17568: Procedure InitTreeData( Tree : TUpdateTree )
17569: Procedure INSERT
17570: Procedure Insert( Index : Integer; AClass : TClass )
17571: Procedure Insert( Index : Integer; AComponent : TComponent )
17572: Procedure Insert( Index : Integer; AObject : TObject )
17573: Procedure Insert( Index : Integer; const S : WideString )
17574: Procedure Insert( Index : Integer; Image, Mask : TBitmap )
17575: Procedure Insert( Index: Integer; const S: string );
17576: procedure Insert(Index: Integer; S: string);
17577: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
17578: procedure InsertComponent(AComponent:TComponent)
17579: procedure InsertControl(AControl: TControl);
17580: Procedure InsertIcon( Index : Integer; Image : TIcon )
17581: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor )
17582: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject )
17583: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
17584: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte )
17585: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte )
17586: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte )
17587: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
17588: Procedure InternalBeforeResolve( Tree : TUpdateTree )
17589: Procedure InvalidateModuleCache
17590: Procedure InvalidateTitles
17591: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word )
17592: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word )
17593: Procedure InvalidDateTimeError(const AYear,AMth,Aday,AMin,ASec,AMilSec:Word;const
ABaseDate:TDateTime)
17594: Procedure InvalidDateWeekError( const AYear, AWeekOfYear, ADayOfWeek : Word )
17595: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADayOfWeek : Word )
17596: procedure JavaSyntax1Click(Sender: TObject);
17597: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer )
17598: Procedure KillDataChannel
17599: Procedure Largefont1Click( Sender : TObject )
17600: Procedure LAST
17601: Procedure LaunchCpl( FileName : string )
17602: Procedure Launch( const AFile : string )
17603: Procedure LaunchFile( const AFile : string )
17604: Procedure LetfileList(FileList: TStringlist; apath: string);
17605: Procedure lineToNumber( xmemo : String; met : boolean )
17606: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
DefaultDraw:Bool)
17607: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
: TCustomDrawState; var DefaultDraw : Boolean )
17608: Procedure ListViewData( Sender : TObject; Item : TListItem )
17609: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
: TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
17610: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer )
17611: Procedure ListViewDblClick( Sender : TObject )
17612: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState )
17613: Procedure ListDLEExports(const FileName: string; List: TStrings);
17614: Procedure Load( const WSDLFileName : WideString; Stream : TMemoryStream )
17615: procedure LoadBytecode1Click(Sender: TObject);
17616: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
17617: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP )
17618: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE )
17619: Procedure LoadFromFile( AFileName : string )
17620: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean )
17621: Procedure LoadFromFile( const FileName : string )
17622: Procedure LOADFROMFILE( const FILENAME : String; BLOBTYPE : TBLOBTYPE )
17623: Procedure LoadFromFile( const FileName : string; DataType : TDataType )
17624: Procedure LoadFromFile( const FileName : WideString )
17625: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap )
17626: Procedure LoadFromFile(const AFileName: string)
17627: procedure LoadFromFile(FileName: string);
17628: procedure LoadFromFile(FileName:String)
17629: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer )
17630: Procedure LoadFromResourceName( Instance : THandle; const ResName : String )

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17631: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
17632: Procedure LoadFromStream( const Stream : TStream)
17633: Procedure LoadFromStream( S : TStream)
17634: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17635: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17636: Procedure LoadFromStream( Stream : TStream)
17637: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOTYPE : TBLOTYPE)
17638: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
17639: procedure LoadFromStream(Stream: TStream);
17640: Procedure LoadFromStream( Stream : TSeekableStream; const FormatExt : string);
17641: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
17642: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
17643: Procedure LoadLastFileClick( Sender : TObject)
17644: { LoadIconToImage loads two icons from resource named NameRes,
17645:   into two image lists ALarge and ASmall}
17646: Procedure LoadIconToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
17647: Procedure LoadMemo
17648: Procedure LoadParamsFromIniFile( FFileName : WideString)
17649: Procedure Lock
17650: Procedure Login
17651: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
17652: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
17653: Procedure MakeCaseInsensitive
17654: Procedure MakeDeterministic( var bChanged : boolean)
17655: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
17656: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
17657: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
17658: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:bool;Volume:Byte);
17659: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
17660: Procedure SetRectComplexFormatStr( const S : string)
17661: Procedure SetPolarComplexFormatStr( const S : string)
17662: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
17663: Procedure MakeVisible
17664: Procedure MakeVisible( PartialOK : Boolean)
17665: Procedure ManualClick( Sender : TObject)
17666: Procedure MarkReachable
17667: Procedure maxBox; //shows the exe version data in a win box
17668: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
17669: Procedure Memo1Change( Sender : TObject)
17670: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var Action:TSynReplaceAction)
17671: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
17672: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
17673: procedure Memory1Click(Sender: TObject);
17674: Procedure MERGE( MENU : TMAINMENU)
17675: Procedure MergeChangeLog
17676: procedure MINIMIZE
17677: Procedure MinimizeMaxbox;
17678: Procedure MkDir(const s: string)
17679: Procedure mnuPrintFont1Click( Sender : TObject)
17680: procedure ModalStarted
17681: Procedure Modified
17682: Procedure ModifyAlias( Name : string; List : TStrings)
17683: Procedure ModifyDriver( Name : string; List : TStrings)
17684: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
17685: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint)
17686: Procedure Move( CurIndex, NewIndex : Integer)
17687: procedure Move(CurIndex, NewIndex: Integer);
17688: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
17689: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
17690: Procedure moveCube( o : TMyLabel )
17691: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode)
17692: procedure MoveTo(X, Y: Integer);
17693: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer);
17694: Procedure MovePoint(var x,y:Extended; const angle:Extended);
17695: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt);
17696: Procedure Multiply1( Multiplier1 : TMyBigInt; Multiplier2 : Integer);
17697: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string = 'MAINICON';Flags:DWORD=MB_OK);
17698: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
17699: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat)
17700: procedure New(P: PChar)
17701: procedure New1Click(Sender: TObject);
17702: procedure NewInstance1Click(Sender: TObject);
17703: Procedure NEXT
17704: Procedure NextMonth
17705: Procedure Noop
17706: Procedure NormalizePath( var APath : string)
17707: procedure ObjectBinaryToText(Input, Output: TStream)
17708: procedure ObjectBinaryToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17709: procedure ObjectResourceToText(Input, Output: TStream)
17710: procedure ObjectResourceToText1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17711: procedure ObjectTextToBinary(Input, Output: TStream)
17712: procedure ObjectTextToBinary1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17713: procedure ObjectTextToResource(Input, Output: TStream)
17714: procedure ObjectTextToResource1(Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat)
17715: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean)
17716: Procedure Open( const UserID : WideString; const Password : WideString);
17717: Procedure Open;
17718: Procedure open1Click( Sender : TObject)

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17719: Procedure OpenCdDrive
17720: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char)
17721: Procedure OpenCurrent
17722: Procedure OpenFile(vfilenamepath: string)
17723: Procedure OpenDirectory1Click( Sender : TObject)
17724: Procedure OpenDir(adir: string);
17725: Procedure OpenIndexFile( const IndexName : string)
17726: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const
  SchemaID:OleVariant;DataSet:TADODataset)
17727: Procedure OpenWriteBuffer( const ATreshold : Integer)
17728: Procedure OptimizeMem
17729: Procedure Options1( AURL : string);
17730: Procedure OutputDebugString(lpOutputString : PChar)
17731: Procedure PackBuffer
17732: Procedure Paint
17733: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean)
17734: Procedure PaintToTBitmap( Target : TBitmap)
17735: Procedure PaletteChanged
17736: Procedure ParentBidiModeChanged
17737: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT)
17738: Procedure PasteFromClipboard;
17739: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer)
17740: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string)
17741: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
17742: Procedure PError( Text : string)
17743: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17744: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer);
17745: Procedure Play( FromFrame, ToFrame : Word; Count : Integer)
17746: procedure playmp3(mpPath: string);
17747: Procedure PlayMP31Click( Sender : TObject)
17748: Procedure PointCopy( var Dest : TPoint; const Source : TPoint)
17749: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer)
17750: procedure PolyBezier(const Points: array of TPoint);
17751: procedure PolyBezierTo(const Points: array of TPoint);
17752: procedure Polygon(const Points: array of TPoint);
17753: procedure Polyline(const Points: array of TPoint);
17754: Procedure Pop
17755: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT)
17756: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float)
17757: Procedure POPUP( X, Y : INTEGER)
17758: Procedure PopupURL(URL : WideString);
17759: Procedure POST
17760: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
17761: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
17762: Procedure Post6( AURL : string; const ASource : TIdMultiPartFormDataStream; AResponseContent : TStream);
17763: Procedure PostUser( const Email, FirstName, LastName : WideString)
17764: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
17765: procedure Pred(X: int64);
17766: Procedure Prepare
17767: Procedure PrepareStatement
17768: Procedure PreProcessXML( AList : TStrings)
17769: Procedure PreventDestruction
17770: Procedure Print( const Caption : string)
17771: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
17772: procedure printf(const format: String; const args: array of const);
17773: Procedure PrintList(Value: TStringList);
17774: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
17775: Procedure Printtout1Click( Sender : TObject)
17776: Procedure ProcessHeaders
17777: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR)
17778: Procedure ProcessMessage( AMsg : TIdMessage; AHeaderOnly : Boolean);
17779: Procedure ProcessMessage1( AMsg : TIdMessage; const AStream : TStream; AHeaderOnly : Boolean);
17780: Procedure ProcessMessage2( AMsg : TIdMessage; const AFilename : string; AHeaderOnly : Boolean);
17781: Procedure ProcessMessagesOFF; //application.processmessages
17782: Procedure ProcessMessagesON;
17783: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string)
17784: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
17785: Procedure Proclist Size is: 3797 /1415
17786: Procedure procMessClick( Sender : TObject)
17787: Procedure PSScriptCompile( Sender : TPSScript)
17788: Procedure PSScriptExecute( Sender : TPSScript)
17789: Procedure PSScriptLine( Sender : TObject)
17790: Procedure Push( ABoundary : string)
17791: procedure PushItem(AItem: Pointer)
17792: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream);
17793: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean);
17794: procedure PutLinuxLines(const Value: string)
17795: Procedure Quit
17796: Procedure RaiseConversionError( const AText : string);
17797: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const);
17798: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string);
17799: procedure RaiseException(Ex: TIEException; Param: String);
17800: Procedure RaiseExceptionForLastCmdResult;
17801: procedure RaiseLastException;
17802: procedure RaiseException2;
17803: Procedure RaiseLastOSError
17804: Procedure RaiseLastWin32;
17805: procedure RaiseLastWin32Error)
17806: Procedure RaiseListError( const ATemplate : string; const AData : array of const)

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17807: Procedure RandomFillStream( Stream : TMemoryStream)
17808: procedure randomize;
17809: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect)
17810: Procedure RCS
17811: Procedure Read( Socket : TSocket)
17812: Procedure ReadBlobData
17813: procedure ReadBuffer(Buffer:String;Count:LongInt)
17814: procedure ReadOnlyClick(Sender: TObject);
17815: Procedure ReadSection( const Section : string; Strings : TStringList)
17816: Procedure ReadSections( Strings : TStringList)
17817: Procedure ReadSections( Strings : TStringList);
17818: Procedure ReadSections1( const Section : string; Strings : TStringList);
17819: Procedure ReadSectionValues( const Section : string; Strings : TStringList)
17820: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean)
17821: Procedure ReadStrings( ADest : TStringList; AReadLinesCount : Integer)
17822: Procedure ReadVersion2(aFileName: STRING; aVersion : TStringList);
17823: Function ReadVersion(aFileName: STRING; aVersion : TStringList): boolean;
17824: Procedure Realign;
17825: procedure Rectangle(X1, Y1, X2, Y2: Integer);
17826: Procedure Rectangle1( const Rect : TRect);
17827: Procedure RectCopy( var Dest : TRect; const Source : TRect)
17828: Procedure RectFitToScreen( var R : TRect)
17829: Procedure RectGrow( var R : TRect; const Delta : Integer)
17830: Procedure RectGrowX( var R : TRect; const Delta : Integer)
17831: Procedure RectGrowY( var R : TRect; const Delta : Integer)
17832: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer)
17833: Procedure RectMoveTo( var R : TRect; const X, Y : Integer)
17834: Procedure RectNormalize( var R : TRect)
17835: // TFileCallbackProcedure = procedure(filename:string);
17836: Procedure RecurseDirectory(Dir: String; IncludeSubs: boolean; callback: TFileCallbackProcedure);
17837: Procedure RecurseDirectory2(Dir: String; IncludeSubs : boolean);
17838: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState)
17839: Procedure Refresh;
17840: Procedure RefreshData( Options : TFetchOptions)
17841: Procedure REFRESHLOOKUPLIST
17842: Procedure regExPathfinder(Pathin, fileout, firsttp, aregex, ext: string; asort: boolean);
17843: Procedure regExPathfinder2(Pathin, fileout, firsttp, aregex, ext: string; asort: boolean);
17844: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIAuthenticationClass)
17845: Procedure RegisterChanges( Value : TChangeLink)
17846: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass)
17847: Procedure RegisterfileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass)
17848: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int)
17849: Procedure ReInitialize( ADelay : Cardinal)
17850: procedure RELEASE
17851: Procedure Remove( const AByteCount : integer)
17852: Procedure REMOVE( FIELD : TFIELD)
17853: Procedure REMOVE( ITEM : TMENUITEM)
17854: Procedure REMOVE( POPUP : TPOPUPMENU)
17855: Procedure RemoveAllPasswords
17856: procedure RemoveComponent(AComponent:TComponent)
17857: Procedure RemoveDir( const ADirName : string)
17858: Procedure RemoveLambdaTransitions( var bChanged : boolean)
17859: Procedure REMOVEPARAM( VALUE : TPARAM)
17860: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
17861: Procedure RemoveTransitionTo1( oState : TniRegularExpressionState);
17862: Procedure Rename( const ASourceFile, ADestFile : string)
17863: Procedure Rename( const FileName : string; Reload : Boolean)
17864: Procedure RenameTable( const NewTableName : string)
17865: Procedure Replace( Index : Integer; Image, Mask : TBitmap)
17866: Procedure Replace1Click( Sender : TObject)
17867: Procedure ReplaceDate( var Date : TDateTime; NewDate : TDateTime)
17868: procedure ReplaceDate(var Date: TDateTime; const NewDate: TDateTime))
17869: Procedure ReplaceIcon( Index : Integer; Image : TIcon)
17870: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor)
17871: Procedure ReplaceTime( var Date : TDateTime; NewTime : TDateTime)
17872: procedure ReplaceTime(var Date: TDateTime; const NewTime: TDateTime);
17873: Procedure Requery( Options : TExecuteOptions)
17874: Procedure Reset
17875: Procedure Reset1Click( Sender : TObject)
17876: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor)
17877: procedure ResourceExplore1Click(Sender: TObject);
17878: Procedure RestoreContents
17879: Procedure RestoreDefaults
17880: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string)
17881: Procedure RetrieveHeaders
17882: Procedure RevertRecord
17883: Procedure RGBABoGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal)
17884: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17885: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
17886: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
17887: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
17888: Procedure RGBtoHSV( r, g, b : Integer; var h, s, v : Integer)
17889: Procedure RleCompress2( Stream : TStream)
17890: Procedure RleDecompress2( Stream : TStream)
17891: Procedure RmDir(const S: string)
17892: Procedure Rollback
17893: Procedure Rollback( TransDesc : TTransactionDesc)
17894: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction)
17895: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction)

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17896: Procedure RollbackTrans
17897: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
17898: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean)
17899: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean)
17900: Procedure RunDll32Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer)
17901: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string)
17902: Procedure S_EBox( const AText : string)
17903: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int)
17904: Procedure S_IBox( const AText : string)
17905: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char)
17906: Procedure S_ReplacesStringInFile( AFileName : string; ASearchString, AReplaceString : string)
17907: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string)
17908: Procedure SampleVarianceAndMean
17909: ( const X : TDynFloatArray; var Variance, Mean : Float)
17910: Procedure Save2Click( Sender : TObject)
17911: Procedure Saveas3Click( Sender : TObject)
17912: Procedure SavebeforeClick( Sender : TObject)
17913: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
17914: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
17915: Procedure SaveConfigFile
17916: Procedure SaveOutput1Click( Sender : TObject)
17917: procedure SaveScreenshotClick(Sender: TObject);
17918: Procedure SaveLn(pathname, content: string); //SaveLn(exepath+'mysaveltest.txt', memo2.text);
17919: Procedure SaveToClipboardFormat( var AFormat : Word; var AData : THandle; var APalette : HPALETTE)
17920: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE)
17921: Procedure SaveToFile( AFileName : string)
17922: Procedure SAVETOFILE( const FILENAME : String)
17923: Procedure SaveToFile( const FileName : WideString)
17924: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat)
17925: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
17926: procedure SaveToFile(FileName:String)
17927: procedure SaveToFile(FileName:String)
17928: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
17929: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17930: Procedure SaveToStream( S : TStream)
17931: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
17932: Procedure SaveToStream( Stream : TStream)
17933: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
17934: procedure SaveToStream(Stream:TStream);
17935: procedure SaveToStream(Stream:TStream)
17936: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
17937: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
17938: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
17939: procedure Say(const sText: string)
17940: Procedure SBytecode1Click( Sender : TObject)
17941: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
17942: procedure ScriptExplorer1Click(Sender: TObject);
17943: Procedure Scroll( Distance : Integer)
17944: Procedure Scroll( DX, DY : Integer)
17945: procedure ScrollBy(DeltaX, DeltaY: Integer);
17946: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
17947: Procedure ScrollTabs( Delta : Integer)
17948: Procedure Search1Click( Sender : TObject)
17949: procedure SearchAndOpenDoc(vfilenamepath: string)
17950: procedure SearchAndOpenFile(vfilenamepath: string)
17951: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
17952: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
17953: Procedure SearchNext1Click( Sender : TObject)
17954: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
17955: Procedure Select1( const Nodes : array of TTreeNode);
17956: Procedure Select2( Nodes : TList);
17957: Procedure SelectNext( Direction : Boolean)
17958: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
17959: Procedure SelfTestPEM //unit uPSI_CPEM
17960: Procedure Send( AMsg : TIdMessage)
17961: //config forst in const MAILINIFILE = 'maildef.ini';
17962: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','
17963: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17964: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
17965: Procedure SendMsg( AMsg : TIdMessage; const AHeadersOnly : Boolean)
17966: Procedure SendMsg(AMsg: TIdMessage; const AHeadersOnly: Boolean = False)
17967: Procedure SendResponse
17968: Procedure SendStream( AStream : TStream)
17969: Procedure Set8087CW( NewCW : Word)
17970: Procedure SetAll( One, Two, Three, Four : Byte)
17971: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
17972: Procedure SetAppDispatcher( const AD dispatcher : TComponent)
17973: procedure SetArrayLength;
17974: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
17975: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
17976: Procedure SetAsHandle( Format : Word; Value : THandle)
17977: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
17978: procedure SetCaptureControl(Control: TControl);
17979: Procedure SetColumnAttributes
17980: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
17981: Procedure SetCustomHeader( const Name, Value : string)
17982: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const FieldName:Widestring)

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17983: Procedure SetFMTBCd( Buffer : TRecordBuffer; value : TBcd)
17984: Procedure SetFocus
17985: procedure SetFocus; virtual;
17986: Procedure SetInitialState
17987: Procedure SetKey
17988: procedure SetLastError(ErrorCode: Integer)
17989: procedure SetLength;
17990: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineStyle)
17991: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
17992: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind);
17993: procedure SETPARAMS(APosition,AMIN,AMAX:INTEGER)
17994: Procedure SetParams1( UpdateKind : TUpdateKind);
17995: Procedure SetPassword( const Password : string)
17996: Procedure SetPointer( Ptr : Pointer; Size : Longint)
17997: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
17998: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
17999: Procedure SetProvider( Provider : TComponent)
18000: Procedure SetProxy( const Proxy : string)
18001: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
18002: Procedure SetRange( const StartValues, EndValues : array of const)
18003: Procedure SetRangeEnd
18004: Procedure SetRate( const aPercent, aYear : integer)
18005: procedure SetRate(const aPercent, aYear: integer)
18006: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
18007: Procedure SetsafeCallExceptionMsg( Msg : String)
18008: procedure SETSELTEXTBUF(BUFFER:PCHAR)
18009: Procedure Setsize( AWidth, AHeight : Integer)
18010: procedure SetSize(NewSize:LongInt)
18011: procedure SetString(var s: string; buffer: PChar; len: Integer)
18012: Procedure SetStrings( List : TStrings)
18013: Procedure SetText( Text : PwideChar)
18014: procedure SetText(Text: Pchar);
18015: Procedure SetTextBuf( Buffer : PChar)
18016: procedure SETTEXTBUF(BUFFER:PCHAR)
18017: Procedure SetTick( Value : Integer)
18018: Procedure SetTimeout( ATimeOut : Integer)
18019: Procedure SetTraceEvent( Event : TDBXTraceEvent)
18020: Procedure SetUserName( const UserName : string)
18021: Procedure SetWallpaper( Path : string);
18022: procedure ShellStyle1Click(Sender: TObject);
18023: Procedure SHORTCUTTOKEY( SHORTCUT : TSHORTCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
18024: Procedure ShowFileProperties( const FileName : string)
18025: Procedure ShowIncludelClick( Sender : TObject)
18026: Procedure ShowInterfaces1Click( Sender : TObject)
18027: Procedure ShowLastException1Click( Sender : TObject)
18028: Procedure ShowMessage( const Msg : string)
18029: Procedure ShowMessageBig(const aText : string);
18030: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
18031: Procedure ShowMessageBig3(const aText : string; fsize: byte; aautosize: boolean);
18032: Procedure MsgBig(const aText : string); //alias
18033: procedure showmessage(mytext: string);
18034: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
18035: procedure ShowMessageFmt(const Msg: string; Params: array of const))
18036: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
18037: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
18038: Procedure ShowSearchDialog( const Directory : string)
18039: Procedure ShowSpecChars1Click( Sender : TObject)
18040: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
18041: Procedure ShredFile( const FileName : string; Times : Integer)
18042: procedure Shuffle(v0: TStringList);
18043: Procedure ShuffleList( var List : array of Integer; Count : Integer)
18044: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
18045: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
18046: Procedure SinCose( X : Extended; out Sin, Cos : Extended)
18047: Procedure Site( const ACommand : string)
18048: Procedure SkipEOL
18049: Procedure Sleep( ATime : cardinal)
18050: Procedure Sleep( milliseconds : Cardinal)
18051: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
18052: Procedure Slinenumbers1Click( Sender : TObject)
18053: Procedure Sort
18054: Procedure SortColorArray(ColorArray:TColorArray;L,R:Int;SortType:TColorArraySortType;Reverse:Bool)
18055: procedure Speak(const sText: string) //async like voice
18056: procedure Speak2(const sText: string) //sync
18057: procedure Split(Str: string; SubStr: string; List: TStrings);
18058: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
18059: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)
18060: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
18061: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings)
18062: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
18063: procedure SQLSyntax1Click(Sender: TObject);
18064: Procedure SRand( Seed : RNG_IntType)
18065: Procedure Start
18066: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
18067: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
18068: Procedure StartTransaction( TransDesc : TTransactionDesc)
18069: Procedure Status( var AStatusList : TStringList)
18070: Procedure StatusBar1DblClick( Sender : TObject)
18071: Procedure StepInto1Click( Sender : TObject)

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18072: Procedure StepIt
18073: Procedure StepOut1Click( Sender : TObject)
18074: Procedure Stop
18075: procedure stopmp3;
18076: procedure StartWeb(aurl: string);
18077: Procedure Str(aint: integer; astr: string); //of system
18078: Procedure StrDispose( Str : PChar)
18079: procedure StrDispose(Str: PChar)
18080: Procedure StrReplace(var Str: String; Old, New: String);
18081: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
18082: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
18083: Procedure StringToBytes( Value : String; Bytes : array of byte)
18084: procedure StrSet(c : Char; I : Integer; var s : String);
18085: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
18086: Procedure StructureMount( APath : String)
18087: procedure STYLECHANGED(SENDER:TObject)
18088: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
18089: procedure Succ(X: int64);
18090: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
18091: procedure SwapChar(var X,Y: char); //swapX follows
18092: Procedure SwapFloats( var X, Y : Float)
18093: procedure SwapGrid(grd: TStringGrid);
18094: Procedure SwapOrd( var I, J : Byte);
18095: Procedure SwapOrd( var X, Y : Integer)
18096: Procedure SwapOrd1( var I, J : Shortint);
18097: Procedure SwapOrd2( var I, J : Smallint);
18098: Procedure SwapOrd3( var I, J : Word);
18099: Procedure SwapOrd4( var I, J : Integer);
18100: Procedure SwapOrd5( var I, J : Cardinal);
18101: Procedure SwapOrd6( var I, J : Int64);
18102: Procedure SymetricCompareFiles(const plaintext, replaintext: string)
18103: Procedure Synchronize( Method : TMethod);
18104: procedure SyntaxCheck1Click(Sender: TObject);
18105: Procedure SysFreeString(const S: WideString); stdcall;
18106: Procedure TakeOver( Other : TLinearBitmap)
18107: Procedure TalkIn(const sText: string) //async voice
18108: procedure tbtn6resClick(Sender: TObject);
18109: Procedure tbtnUseCaseClick( Sender : TObject);
18110: procedure TerminalStyle1Click(Sender: TObject);
18111: Procedure Terminate
18112: Procedure texSyntax1Click( Sender : TObject)
18113: procedure TextOut(X, Y: Integer; Text: string);
18114: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
18115: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
18116: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
18117: Procedure TextStart
18118: procedure TILE
18119: ProcedureTimeStampToBytes( Value : TBcd; Bytes : array of byte)
18120: Procedure TitleClick( Column : TColumn)
18121: Procedure ToDo
18122: procedure toolbtnTutorialClick(Sender: TObject);
18123: Procedure Trace1( AURL : string; const AResponseContent : TStream);
18124: Procedure TransferMode( ATransferMode : TIdFTTTransferMode)
18125: Procedure Truncate
18126: procedure Tutorial101Click(Sender: TObject);
18127: procedure Tutorial10Statistics1Click(Sender: TObject);
18128: procedure Tutorial11Forms1Click(Sender: TObject);
18129: procedure Tutorial11SQL1Click(Sender: TObject);
18130: Procedure tutorial1Click( Sender : TObject)
18131: Procedure tutorial21Click( Sender : TObject)
18132: Procedure tutorial31Click( Sender : TObject)
18133: Procedure tutorial4Click( Sender : TObject)
18134: Procedure Tutorial5Click( Sender : TObject)
18135: procedure Tutorial6Click(Sender: TObject);
18136: procedure Tutorial91Click(Sender: TObject);
18137: Procedure UnhookSignal( RtlSignum : Integer; OnlyIfHooked : Boolean)
18138: procedure UniqueString(var str: AnsiString)
18139: procedure UnloadLoadPackage(Module: HMODULE)
18140: Procedure Unlock
18141: Procedure UNMERGE( MENU : TMAINMENU)
18142: Procedure UnRegisterChanges( Value : TChangeLink)
18143: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
18144: Procedure UnregisterConversionType( const AType : TConvType)
18145: Procedure UnRegisterProvider( Prov : TCustomProvider)
18146: Procedure UPDATE
18147: Procedure UpdateBatch( AffectRecords : TAffectRecords)
18148: Procedure UPDATECURSORPOS
18149: Procedure UpdateFile
18150: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
18151: Procedure UpdateResponse( AResponse : TWebResponse)
18152: Procedure UpdateScrollBar
18153: Procedure UpdateView1Click( Sender : TObject)
18154: procedure Val(const s: string; var n, z: Integer)
18155: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
18156: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
18157: Procedure VariantAdd( const src : Variant; var dst : Variant)
18158: Procedure VariantAnd( const src : Variant; var dst : Variant)
18159: Procedure VariantArrayRedim( var V : Variant; High : Integer)
18160: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)

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18161: Procedure VariantClear( var V : Variant)
18162: Procedure VariantCpy( const src : Variant; var dst : Variant)
18163: Procedure VariantDiv( const src : Variant; var dst : Variant)
18164: Procedure VariantMod( const src : Variant; var dst : Variant)
18165: Procedure VariantMul( const src : Variant; var dst : Variant)
18166: Procedure VariantOr( const src : Variant; var dst : Variant)
18167: Procedure VariantPutElement( var V : Variant; const data : Variant; i1 : integer);
18168: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
18169: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
18170: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
18171: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
18172: Procedure VariantShl( const src : Variant; var dst : Variant)
18173: Procedure VariantShr( const src : Variant; var dst : Variant)
18174: Procedure VariantSub( const src : Variant; var dst : Variant)
18175: Procedure VariantXor( const src : Variant; var dst : Variant)
18176: Procedure VarCastError;
18177: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
18178: Procedure VarInvalidOp
18179: Procedure VarInvalidNullOp
18180: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
18181: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
18182: Procedure VarArrayCreateError
18183: Procedure VarResultCheck( AResult : HRESULT);
18184: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
18185: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
18186: Function VarTypeAsText( const AType : TVarType) : string
18187: procedure Voice(const sText: string) //async
18188: procedure Voice2(const sText: string) //sync
18189: Procedure WaitMilliseconds( AMSec : word)
18190: Procedure WideAppend( var dst : WideString; const src : WideString)
18191: Procedure WideAssign( var dst : WideString; var src : WideString)
18192: Procedure WideDelete( var dst : WideString; index, count : Integer)
18193: Procedure WideFree( var s : WideString)
18194: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
18195: Procedure WideFromPChar( var dst : WideString; src : PChar)
18196: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
18197: Procedure WideSetLength( var dst : WideString; len : Integer)
18198: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
18199: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
18200: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
18201: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18202: Procedure HttpGet(const Url: string; Stream:TStream);
18203: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIdBytes; Index : integer)
18204: Procedure WordWrap1Click( Sender : TObject)
18205: Procedure Write( const AOut : string)
18206: Procedure Write( Socket : TSocket)
18207: procedure Write(S: string);
18208: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
18209: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
18210: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
18211: procedure WriteBuffer(Buffer:String;Count:LongInt)
18212: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
18213: Procedure WriteChar( AValue : Char)
18214: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
18215: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
18216: Procedure WriteFloat( const Section, Name : string; Value : Double)
18217: Procedure WriteHeader( AHeader : TStrings)
18218: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
18219: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
18220: Procedure WriteLn( const AOut : string)
18221: procedure Writeln(s: string);
18222: Procedure WriteLog( const FileName, LogLine : string)
18223: Procedure WriteRFCReply( AReply : TIdRFCReply)
18224: Procedure WriteRFCStrings( AStrings : TStrings)
18225: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
18226: Procedure WriteStream(AStream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASIZE:Int)
18227: Procedure WriteString( const Section, Ident, Value : String)
18228: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
18229: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
18230: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
18231: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18232: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18233: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String)');
18234: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
18235: procedure XMLSyntax1Click(Sender: TObject);
18236: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
18237: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
18238: Procedure ZeroFillStream( Stream : TMemoryStream)
18239: procedure XMLSyntax1Click(Sender: TObject);
18240: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
18241: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
18242: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
18243: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
18244: procedure(Sender, Source: TObject; X, Y: Integer)
18245: procedure(Sender, Target: TObject; X, Y: Integer)
18246: procedure(Sender: TObject; ASection, AWidth: Integer)
18247: procedure(Sender: TObject; ScrollCode: TScrollCode; var ScrollPos: Integer)
18248: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
18249: procedure(Sender: TObject; var Action: TCloseAction)

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18250: procedure(Sender: TObject; var CanClose: Boolean)
18251: procedure(Sender: TObject; var Key: Char);
18252: ProcedureName ProcedureNames ProcedureParametersCursor @
18253:
18254: *****Now Constructors constructor *****
18255: Size is: 1248 1115 996 628 550 544 501 459 (381)
18256: Attach( VersionInfoData : Pointer; Size : Integer)
18257: constructor Create( ABuckets : TBucketListSizes)
18258: Create( ACallBackWnd : HWND)
18259: Create( AClient : TCustomTaskDialog)
18260: Create( AClient : TIdTelnet)
18261: Create( ACollection : TCollection)
18262: Create( ACollection : TFavoriteLinkItems)
18263: Create( ACollection : TTaskDialogButtons)
18264: Create( AConnection : TIdCustomHTTP)
18265: Create( ACreateSuspended : Boolean)
18266: Create( ADataSet : TCustomSQLDataSet)
18267: CREATE( ADATASET : TDATASET)
18268: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
18269: Create( AGrid : TCustomDBGrid)
18270: Create( AGrid : TStringGrid; AIndex : Longint)
18271: Create( AHTTP : TIdCustomHTTP)
18272: Create( AListItems : TListItems)
18273: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
18274: Create( AOnBytesRemoved : TIdBufferBytesRemoved)
18275: Create( AOwner : TCommonCalendar)
18276: Create( AOwner : TComponent)
18277: CREATE( AOWNER : TCOMPONENT)
18278: Create( AOwner : TCustomListView)
18279: Create( AOwner : TCustomOutline)
18280: Create( AOwner : TCustomRichEdit)
18281: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)
18282: Create( AOwner : TCustomTreeView)
18283: Create( AOwner : TIdUserManager)
18284: Create( AOwner : TListItems)
18285: Create(AOwner:TObj;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvt:TBDECallbkEvt;Chain:Bool)
18286: CREATE( AOWNER : TPERSISTENT)
18287: Create( AOwner : TPersistent)
18288: Create( AOwner : TTable)
18289: Create( AOwner : TTreeNodes)
18290: Create( AOwner : TWinControl; const ClassName : string)
18291: Create( AParent : TIdCustomHTTP)
18292: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
18293: Create( AProvider : TBaseProvider)
18294: Create( AProvider : TCustomProvider)
18295: Create( AProvider : TDataSetProvider)
18296: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
18297: Create( ASocket : TSocket)
18298: Create( AStrings : TWideStrings)
18299: Create( AToolBar : TToolBar)
18300: Create( ATreeNodes : TTreeNodes)
18301: Create( Autofill : boolean)
18302: Create( AWebPageInfo : TABstractWebPageInfo)
18303: Create( AWebRequest : TWebRequest)
18304: Create( Collection : TCollection)
18305: Create( Collection : TIdMessageParts; ABody : TStrings)
18306: Create( Collection : TIdMessageParts; const AFileName : TFileName)
18307: Create( Column : TColumn)
18308: Create( const AConvFamily : TConvFamily; const ADescription : string)
18309: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
18310: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc)
18311: Create( const AInitialState : Boolean; const AManualReset : Boolean)
18312: Create( const ATabSet : TTabSet)
18313: Create( const Compensate : Boolean)
18314: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
18315: Create( const FileName : string)
18316: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr : PSecurityAttributes)
18317: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
18318: Create( const MaskValue : string)
18319: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
18320: Create( const Prefix : string)
18321: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
18322: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18323: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18324: Create( CoolBar : TCoolBar)
18325: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
18326: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
18327: Create( DataSet :TDataSet; const
  Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
  DepFields : TBits; FieldMap : TFieldMap)
18328: Create( DBCtrlGrid : TDBCctrlGrid)
18329: Create( DSTableProducer : TDSTableProducer)
18330: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
18331: Create( ErrorCode : DBIResult)
18332: Create( Field : TblobField; Mode : TblobStreamMode)
18333: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
18334: Create( HeaderControl : TCustomHeaderControl)

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18335: Create( HTTPRequest : TWebRequest)
18336: Create( iStart : integer; sText : string)
18337: Create( iValue : Integer)
18338: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
18339: Create( MciErrNo : MCIErrOR; const Msg : string)
18340: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
18341: Create( Message : string; ErrorCode : DBResult)
18342: Create( Msg : string)
18343: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
18344: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
18345: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
18346: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
18347: Create(oSource:TniRegularExpression;oDestination:TniRegularExpression;xCharsets:TCharSet;bLambda:bool)
18348: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
18349: Create( Owner : TCustomComboBoxEx)
18350: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS)
18351: Create( Owner : TPersistent)
18352: Create( Params : TString)
18353: Create( Size : Cardinal)
18354: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
18355: Create( StatusBar : TCustomStatusbar)
18356: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
18357: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
18358: Create(AHandle:Integer)
18359: Create(AOwner : TComponent); virtual;
18360: Create(const AURI : string)
18361: Create(FileName:String;Mode:Word)
18362: Create(Instance:THandle;ResName:String;ResType:PChar)
18363: Create(Stream : TStream)
18364: Create( ADataset : TDataset);
18365: Create( const FileHandle:THandle; const Name:string; Protect:Cardinal; const MaximumSize:Int64; const SecAttr:PSecurityAttributes);
18366: Create( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
18367: Create2( Other : TObject);
18368: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
18369: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
18370: CreateFmt( MciErrNo : MCIErrOR; const Msg : string; const Args : array of const)
18371: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
18372: CreateLinked( DBCtrlGrid : TDBCctrlGrid)
18373: CREATE(OWNER:TCOMPONENT; Dummy: Integer)
18374: CreateRes( Ident : Integer);
18375: CreateRes( MciErrNo : MCIErrOR; Ident : Integer)
18376: CreateRes( ResStringRec : PResStringRec);
18377: CreateResHelp( Ident : Integer; AHelpContext : Integer);
18378: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
18379: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
18380: CreateSize( AWidth, AHeight : Integer)
18381: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
18382:
18383: -----
18384: unit upSI_MathMax;
18385: -----
18386: CONSTS
18387: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
18388: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
18389: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
18390: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
18391: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
18392: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
18393: Catalan: Float = 0.9159655941772190150546035149324; // Catalan constant
18394: PiJ: Float = 3.1415926535897932384626433832795; // PI
18395: PI: Extended = 3.1415926535897932384626433832795;
18396: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
18397: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
18398: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
18399: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
18400: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
18401: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
18402: Sqrt10: Float = 3.1622776601683793319988935444327; // Sqrt(10)
18403: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(PI)
18404: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
18405: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
18406: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
18407: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
18408: Ln10: Float = 2.3025850929940456840179914546844; // Ln(10)
18409: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
18410: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
18411: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
18412: LogPi: Float = 0.4971498726941338543512682882909; // Log10(PI)
18413: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
18414: E: Float = 2.7182818284590452353602874713527; // Natural constant
18415: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2*PI)/2
18416: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
18417: TwoToPower63: Float = 9223372036854775808.0; // 2^63
18418: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
18419: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
18420: RadCor : Double = 57.29577951308232; {number of degrees in a radian}
18421: StDelta : Extended = 0.00001; {delta for difference equations}
18422: StEpsilon : Extended = 0.00001; {epsilon for difference equations}

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18423: StMaxIterations : Integer = 100;      {max attempts for convergence}
18424:
18425: procedure SIRegister_StdConvs(CL: TPSpascalCompiler);
18426: begin
18427:   MetersPerInch = 0.0254; // [1]
18428:   MetersPerFoot = MetersPerInch * 12;
18429:   MetersPerYard = MetersPerFoot * 3;
18430:   MetersPerMile = MetersPerFoot * 5280;
18431:   MetersPerNauticalMiles = 1852;
18432:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
18433:   MetersPerLightSecond = 2.99792458E8; // [5]
18434:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
18435:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
18436:   MetersPerCubit = 0.4572; // [6][7]
18437:   MetersPerFathom = MetersPerFoot * 6;
18438:   MetersPerFurlong = MetersPerYard * 220;
18439:   MetersPerHand = MetersPerInch * 4;
18440:   MetersPerPace = MetersPerInch * 30;
18441:   MetersPerRod = MetersPerFoot * 16.5;
18442:   MetersPerChain = MetersPerRod * 4;
18443:   MetersPerLink = MetersPerChain / 100;
18444:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
18445:   MetersPerPica = MetersPerPoint * 12;
18446:
18447:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
18448:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
18449:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
18450:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
18451:   SquareMetersPerAcre = SquareMetersPerSquareYard * 4840;
18452:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
18453:
18454:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;
18455:   CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
18456:   CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
18457:   CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
18458:   CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
18459:   CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
18460:   CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
18461:   CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
18462:
18463:   CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
18464:   CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
18465:   CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
18466:   CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
18467:   CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
18468:   CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
18469:   CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
18470:   CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
18471:
18472:   CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
18473:   CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
18474:   CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
18475:   CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
18476:   CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
18477:   CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
18478:
18479:   CubicMetersPerUKGallon = 0.00454609; // [2][7]
18480:   CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
18481:   CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
18482:   CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
18483:   CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
18484:   CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
18485:   CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
18486:   CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
18487:   CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
18488:
18489:   GramsPerPound = 453.59237; // [1][7]
18490:   GramsPerDrams = GramsPerPound / 256;
18491:   GramsPerGrains = GramsPerPound / 7000;
18492:   GramsPerTons = GramsPerPound * 2000;
18493:   GramsPerLongTons = GramsPerPound * 2240;
18494:   GramsPerOunces = GramsPerPound / 16;
18495:   GramsPerStones = GramsPerPound * 14;
18496:
18497:   MaxAngle 9223372036854775808.0;
18498:   MaxTanh 5678.261703147071974745965389854);
18499:   MaxFactorial( 1754);
18500:   MaxFloatingPoint(1.189731495357231765085759326628E+4932);
18501:   MinFloatingPoint'(3.3621031431120935062626778173218E-4932);
18502:   MaxTanH( 354.89135644669199842162284618659);
18503:   MaxFactorial'LongInt'( 170);
18504:   MaxFloatingPointD(1.797693134862315907729305190789E+308);
18505:   MinFloatingPointD(2.2250738585072013830902327173324E-308);
18506:   MaxTanH( 44.361419555836499802702855773323);
18507:   MaxFactorial'LongInt'( 33);
18508:   MaxFloatingPoints( 3.4028236692093846346337460743177E+38);
18509:   MinFloatingPoints( 1.1754943508222875079687365372222E-38);
18510:   PiExt( 3.1415926535897932384626433832795);
18511:   RatioDegToRad( PiExt / 180.0);

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18512: RatioGradToRad( PiExt / 200.0);
18513: RatioDegToGrad( 200.0 / 180.0);
18514: RatioGradToDeg( 180.0 / 200.0);
18515: Crc16PolynomCCITT'LongWord $1021);
18516: Crc16PolynomIBM'LongWord $8005);
18517: Crc16Bits'LongInt'( 16 );
18518: Crc16Bytes'LongInt'( 2 );
18519: Crc16HighBit'LongWord $8000);
18520: NotCrc16HighBit','LongWord $7FFF);
18521: Crc32PolynomIEEE','LongWord $04C11DB7);
18522: Crc32PolynomCastagnoli','LongWord $1EDC6F41);
18523: Crc32Koopman','LongWord $741B8CD7);
18524: Crc32Bits ','LongInt'( 32 );
18525: Crc32Bytes ','LongInt'( 4 );
18526: Crc32HighBit ','LongWord $80000000);
18527: NotCrc32HighBit ','LongWord $7FFFFFFF);
18528:
18529: MinByte      = Low(Byte);
18530: MaxByte      = High(Byte);
18531: MinWord      = Low(Word);
18532: MaxWord      = High(Word);
18533: MinShortInt = Low(ShortInt);
18534: MaxShortInt = High(ShortInt);
18535: MinSmallInt = Low(SmallInt);
18536: MaxSmallInt = High(SmallInt);
18537: MinLongWord = LongWord(Low(LongWord));
18538: MaxLongWord = LongWord(High(LongWord));
18539: MinLongInt = LongInt(Low(LongInt));
18540: MaxLongInt = LongInt(High(LongInt));
18541: MinInt64    = Int64(Low(Int64));
18542: MaxInt64    = Int64(High(Int64));
18543: MinInteger  = Integer(Low(Integer));
18544: MaxInteger  = Integer(High(Integer));
18545: MinCardinal = Cardinal(Low(Cardinal));
18546: MaxCardinal = Cardinal(High(Cardinal));
18547: MinNativeUInt = NativeUInt(Low(NativeUInt));
18548: MaxNativeUInt = NativeUInt(High(NativeUInt));
18549: MinNativeInt = NativeInt(Low(NativeInt));
18550: MaxNativeInt = NativeInt(High(NativeInt));
18551: Function CosH( const Z : Float) : Float;
18552: Function SinH( const Z : Float) : Float;
18553: Function TanH( const Z : Float) : Float;
18554:
18555:
18556: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
18557: InvLn2      = 1.44269504088896340736; { 1/Ln(2) }
18558: InvLn10     = 0.43429448190325182765; { 1/Ln(10) }
18559: TwoPi       = 6.28318530717958647693; { 2*Pi }
18560: PiDiv2     = 1.57079632679489661923; { Pi/2 }
18561: SqrtPi     = 1.77245385090551602730; { Sqrt(Pi) }
18562: Sqrt2Pi    = 2.50662827463100050242; { Sqrt(2*Pi) }
18563: InvSqrt2Pi = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
18564: LnSqrt2Pi  = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
18565: Ln2PiDiv2  = 0.91893853320467274178; { Ln(2*Pi)/2 }
18566: Sqrt2      = 1.41421356237309504880; { Sqrt(2) }
18567: Sqrt2Div2  = 0.70710678118654752440; { Sqrt(2)/2 }
18568: Gold       = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
18569: CGold      = 0.38196601125010515179; { 2 - GOLD }
18570: MachEp    = 2.220446049250313E-16; { 2^(-52) }
18571: MaxNum     = 1.797693134862315E+308; { 2^1024 }
18572: MinNum     = 2.225073858507202E-308; { 2^(-1022) }
18573: MaxLog     = 709.7827128933840;
18574: MinLog     = -708.3964185322641;
18575: MaxFac     = 170;
18576: MaxGam     = 171.624376956302;
18577: MaxLgm     = 2.556348E+305;
18578: SingleCompareDelta = 1.0E-34;
18579: DoubleCompareDelta = 1.0E-280;
18580: {$IFDEF CLR}
18581: ExtendedCompareDelta = DoubleCompareDelta;
18582: {$ELSE}
18583: ExtendedCompareDelta = 1.0E-4400;
18584: {$ENDIF}
18585: Bytes1KB   = 1024;
18586: Bytes1MB   = 1024 * Bytes1KB;
18587: Bytes1GB   = 1024 * Bytes1MB;
18588: Bytes64KB  = 64 * Bytes1KB;
18589: Bytes64MB  = 64 * Bytes1MB;
18590: Bytes2GB   = 2 * LongWord(Bytes1GB);
18591:   clBlack32', $FF000000 );
18592:   clDimGray32', $FF3F3F3F );
18593:   clGray32', $FF7F7F7F );
18594:   clLightGray32', $FFFBFBFB );
18595:   clWhite32', $FFFFFF );
18596:   clMaroon32', $FF7F0000 );
18597:   clGreen32', $FF007F00 );
18598:   clOlive32', $FF7F7F00 );
18599:   clNavy32', $FF00007F );
18600:   clPurple32', $FF7F007F ) );

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18601: clTeal32', $FF007F7F ));
18602: clRed32', $FFFF0000 ));
18603: clLime32', $FF00FF00 ));
18604: clYellow32', $FFFFFF00 ));
18605: clBlue32', $FF0000FF ));
18606: clFuchsia32', $FFFF00FF ));
18607: clAqua32', $FF00FFFF ));
18608: clAliceBlue32', $FFFF0F8FF ));
18609: clAntiqueWhite32', $FFFAEBD7 ));
18610: clAquamarine32', $FFF7FFFD4 ));
18611: clAzure32', $FFF0FFFF ));
18612: clBeige32', $FFF5F5DC ));
18613: clBisque32', $FFFFE4C4 ));
18614: clBlanchedAlmond32', $FFFFEBBCD ));
18615: clBlueViolet32', $FF8A2BE2 ));
18616: clBrown32', $FFA52A2A ));
18617: clBurlyWood32', $FFDEB887 ));
18618: clCadetblue32', $FF5F9EA0 ));
18619: clChartreuse32', $FF7FFF00 ));
18620: clChocolate32', $FFD2691E ));
18621: clCoral32', $FFFF7F50 ));
18622: clCornflowerBlue32', $FF6495ED ));
18623: clCornSilk32', $FFFFF8DC ));
18624: clCrimson32', $FFDC143C ));
18625: clDarkBlue32', $FF00008B ));
18626: clDarkCyan32', $FF008B8B ));
18627: clDarkGoldenRod32', $FFB8860B ));
18628: clDarkGray32', $FFA9A9A9 ));
18629: clDarkGreen32', $FF006400 ));
18630: clDarkGrey32', $FFA9A9A9 ));
18631: clDarkKhaki32', $FFBD876B ));
18632: clDarkMagenta32', $FF8B008B ));
18633: clDarkOliveGreen32', $FF556B2F ));
18634: clDarkOrange32', $FFFF8C00 ));
18635: clDarkOrchid32', $FF9932CC ));
18636: clDarkRed32', $FF8B0000 ));
18637: clDarkSalmon32', $FFE9967A ));
18638: clDarkSeaGreen32', $FF8FB8C8F ));
18639: clDarkSlateBlue32', $FF483D8B ));
18640: clDarkSlateGray32', $FF2F4F4F ));
18641: clDarkSlateGrey32', $FF2F4F4F ));
18642: clDarkTurquoise32', $FF00CED1 ));
18643: clDarkViolet32', $FF9400D3 ));
18644: clDeepPink32', $FFFF1493 ));
18645: clDeepSkyBlue32', $FF00BFFF ));
18646: clDodgerBlue32', $FF1E90FF ));
18647: clFireBrick32', $FFB22222 ));
18648: clFloralWhite32', $FFFFFFAF0 ));
18649: clGainsboro32', $FFCDCDCD ));
18650: clGhostWhite32', $FF8F8FFF ));
18651: clGold32', $FFFFD700 ));
18652: clGoldenRod32', $FFDAE520 ));
18653: clGreenYellow32', $FFADFF2F ));
18654: clGrey32', $FF808080 ));
18655: clHoneyDew32', $FFF0FFF0 ));
18656: clHotPink32', $FFFFE9B4 ));
18657: clIndianRed32', $FFCD5C5C ));
18658: clIndigo32', $FF4B0082 ));
18659: clIvory32', $FFFFFFF0 ));
18660: clKhaki32', $FFFOE68C ));
18661: clLavender32', $FFE6E6FA ));
18662: clLavenderBlush32', $FFFFFF0F5 ));
18663: clLawnGreen32', $FF7CFC00 ));
18664: clLemonChiffon32', $FFFFFFACD ));
18665: clLightBlue32', $FFADD8E6 ));
18666: clLightCoral32', $FFF08080 ));
18667: clLightCyan32', $FFE0FFF0 ));
18668: clLightGoldenRodYellow32', $FFFAFAD2 ));
18669: clLightGreen32', $FF90EE90 ));
18670: clLightGrey32', $FFD3D3D3 ));
18671: clLightPink32', $FFFFB6C1 ));
18672: clLightSalmon32', $FFFA07A ));
18673: clLightSeagreen32', $FF20B2AA ));
18674: clLightSkyblue32', $FF87CEFA ));
18675: clLightSlategray32', $FF778899 ));
18676: clLightSlategrey32', $FF778899 ));
18677: clLightSteelblue32', $FFB0C4DE ));
18678: clLightYellow32', $FFFFFFE0 ));
18679: clLtGray32', $FFC0C0C0 ));
18680: clMedGray32', $FFA0A0A4 ));
18681: clDkGray32', $FFB08080 ));
18682: clMoneyGreen32', $FFC0DCC0 ));
18683: clLegacySkyBlue32', $FFA6CAF0 ));
18684: clCream32', $FFFFFFBF0 ));
18685: clLimeGreen32', $FF32CD32 ));
18686: clLinen32', $FFFAF0E6 ));
18687: clMediumAquamarine32', $FF66CDAA ));
18688: clMediumBlue32', $FF0000CD ));
18689: clMediumOrchid32', $FFBA55D3 ));
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18690:     clMediumPurple32', $FF9370DB ));
18691:     clMediumSeaGreen32', $FF3CB371 ));
18692:     clMediumSlateBlue32', $FF7B68EE ));
18693:     clMediumSpringGreen32', $FF00FA9A ));
18694:     clMediumTurquoise32', $FF48D1CC ));
18695:     clMediumVioletRed32', $FFC71585 ));
18696:     clMidnightBlue32', $FF191970 ));
18697:     clMintCream32', $FFFF5FFFA ));
18698:     clMistyRose32', $FFFFFFE4E1 ));
18699:     clMoccasin32', $FFFFFFE4B5 ));
18700:     clNavajoWhite32', $FFFFFDEAD ));
18701:     clOldLace32', $FFFDF5E6 ));
18702:     clOliveDrab32', $FF6B8E23 ));
18703:     clOrange32', $FFFFFA500 ));
18704:     clOrangeRed32', $FFFFF4500 ));
18705:     clOrchid32', $FFDA70D6 ));
18706:     clPaleGoldenRod32', $FFEEE8AA ));
18707:     clPaleGreen32', $FF98FB98 ));
18708:     clPaleTurquoise32', $FFAFEEEE ));
18709:     clPaleVioletred32', $FFDB7093 ));
18710:     clPapayaWhip32', $FFFFFEFD5 ));
18711:     clPeachPuff32', $FFFFDAB9 ));
18712:     clPeru32', $FFCD853F ));
18713:     clPlum32', $FFDDA0DD ));
18714:     clPowderBlue32', $FFB0E0E6 ));
18715:     clRosyBrown32', $FFBC8F8F ));
18716:     clRoyalBlue32', $FF4169E1 ));
18717:     clSaddleBrown32', $FF8B4513 ));
18718:     clSalmon32', $FFFA8072 ));
18719:     clSandyBrown32', $FFF4A460 ));
18720:     clSeaGreen32', $FF2E8B57 ));
18721:     clSeaShell32', $FFFFFF5EE ));
18722:     clSienna32', $FFA0522D ));
18723:     clSilver32', $FFC0C0C0 ));
18724:     clSkyblue32', $FF87CEEB ));
18725:     clSlateBlue32', $FF6A5ACD ));
18726:     clSlateGray32', $FF708090 ));
18727:     clSlateGrey32', $FF708090 ));
18728:     clSnow32', $FFFFFAFA ));
18729:     clSpringgreen32', $FF00FF7F ));
18730:     clSteelblue32', $FF4682B4 ));
18731:     clTan32', $FFD2B48C ));
18732:     clThistle32', $FFD8BFDE8 ));
18733:     clTomato32', $FFFF6347 ));
18734:     clTurquoise32', $FF40E0D0 ));
18735:     clViolet32', $FFEE82EE ));
18736:     clWheat32', $FFF5DDEB3 ));
18737:     clWhitesmoke32', $FFF5F5F5 ));
18738:     clYellowgreen32', $FF9ACD32 ));
18739:     clTrWhite32', $7FFFFFFF ));
18740:     clTrBlack32', $7F000000 ));
18741:     clTrRed32', $7FF000000 ));
18742:     clTrGreen32', $7F00FF0000 ));
18743:     clTrBlue32', $7F00000FF0000 ));
18744: // Fixed point math constants
18745: FixedOne = $10000; FixedHalf = $7FFF;
18746: FixedPI = Round(PI * FixedOne);
18747: FixedToFloat = 1/FixedOne;
18748:
18749: Special Types
18750: ****
18751: type Complex = record
18752:   X, Y : Float;
18753: end;
18754: type TVector      = array of Float;
18755: TIntVector    = array of Integer;
18756: TCompVector  = array of Complex;
18757: TBoolVector  = array of Boolean;
18758: TStringVector = array of String;
18759: TMatrix       = array of TVector;
18760: TIntMatrix    = array of TIntVector;
18761: TCompMatrix   = array of TCompVector;
18762: TBoolMatrix   = array of TBoolVector;
18763: TStringMatrix = array of TString;
18764: TByteArray    = array[0..32767] of byte; !
18765: THexArray     = array [0..15] of Char; // = '0123456789ABCDEF';
18766: TBitmapStyle  = (bsNormal, bsCentered, bsStretched);
18767: T2StringArray = array of array of string;
18768: T2IntegerArray = array of array of integer;
18769: AddTypeS('INT_PTR', 'Integer
18770: AddTypeS('LONG_PTR', 'Integer
18771: AddTypeS('UINT_PTR', 'Cardinal
18772: AddTypeS('ULONG_PTR', 'Cardinal
18773: AddTypeS('DWORD_PTR', 'ULONG_PTR
18774: TIntegerDynArray', 'array of Integer
18775: TCardinalDynArray', 'array of Cardinal
18776: TWordDynArray', 'array of Word
18777: TSmallIntDynArray', 'array of SmallInt
18778: TByteDynArray', 'array of Byte

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18779: TShortIntDynArray', 'array of ShortInt
18780: TInt64DynArray', 'array of Int64
18781: TLongWordDynArray', 'array of LongWord
18782: TSingleDynArray', 'array of Single
18783: TDoubleDynArray', 'array of Double
18784: TBooleanDynArray', 'array of Boolean
18785: TStringDynArray', 'array of string
18786: TWideStringDynArray', 'array of WideString
18787: TDynByteArray = array of Byte;
18788: TDynShortintArray = array of Shortint;
18789: TDynSmallintArray = array of Smallint;
18790: TDynWordArray = array of Word;
18791: TDynIntegerArray = array of Integer;
18792: TDynLongintArray = array of Longint;
18793: TDynCardinalArray = array of Cardinal;
18794: TDynInt64Array = array of Int64;
18795: TDynExtendedArray = array of Extended;
18796: TDynDoubleArray = array of Double;
18797: TDynSingleArray = array of Single;
18798: TDynFloatArray = array of Float;
18799: TDynPointerArray = array of Pointer;
18800: TDynStringArray = array of string;
18801: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
18802:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
18803: TSynSearchOptions = set of TSynSearchOption;
18804:
18805:
18806: /* Project : Base Include RunTime Lib for maxbox *Name: pas_includebox.inc
18807: -----
18808: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
18809: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
18810: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);
18811: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18812: function CheckStringSum(vstring: string): integer;
18813: function HexToInt(HexNum: string): LongInt;
18814: function IntToBin(Int: Integer): String;
18815: function BinToInt(Binary: String): Integer;
18816: function HexToBin(HexNum: string): string; external2
18817: function BinToHex(Binary: String): string;
18818: function IntToFloat(i: Integer): double;
18819: function AddThousandSeparator(S: string; myChr: Char): string;
18820: function Max3(const X,Y,Z: Integer): Integer;
18821: procedure Swap(var X,Y: char); // faster without inline
18822: procedure ReverseString(var S: String);
18823: function CharToHexStr(Value: Char): string;
18824: function CharToUniCode(Value: Char): string;
18825: function Hex2Dec(Value: Str002): Byte;
18826: function HexStrCodeToStr(Value: string): string;
18827: function HexToStr(i: integer; value: string): string;
18828: function UniCodeToStr(Value: string): string;
18829: function CRC16(statement: string): string;
18830: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
18831: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
18832: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
18833: Procedure ExecuteCommand(executeFile, paramstring: string);
18834: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
18835: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
18836: procedure SearchAndOpenDoc(vfilenamepath: string);
18837: procedure ShowInterfaces(myFile: string);
18838: function Fact2(av: integer): extended;
18839: Function BoolToStr(B: Boolean): string;
18840: Function GCD(x, y: LongInt) : LongInt;
18841: function LCM(m,n: longint): longint;
18842: function GetASCII: string;
18843: function GetItemHeight(Font: TFont): Integer;
18844: function myPlaySound(s: pchar; flag,syncflag: integer): boolean;
18845: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
18846: function getHINSTANCE: longword;
18847: function getHMODULE: longword;
18848: function GetASCII: string;
18849: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
18850: function WordIsOk(const AWord: string; var VW: Word): boolean;
18851: function TwentyFourBitValueIsOk(const AValue: string; var VI: Integer): boolean;
18852: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
18853: function SafeStr(const s: string): string;
18854: function ExtractUrlPath(const FileName: string): string;
18855: function ExtractUrlName(const FileName: string): string;
18856: function IsInternet: boolean;
18857: function RotateLeft1Bit_u32( Value: uint32): uint32;
18858: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var LF:TStLinEst; ErrorStats : Boolean);
18859: procedure getEnvironmentInfo;
18860: procedure AntiFreeze;
18861: function GetCPUSpeed: Double;
18862: function IsVirtualPcGuest : Boolean;
18863: function IsVmWareGuest : Boolean;
18864: procedure StartSerialDialog;
18865: function IsWoW64: boolean;
18866: function IsWow64String(var s: string): Boolean;

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18867: procedure StartThreadDemo;
18868: Function RGB(R,G,B: Byte): TColor;
18869: Function SendLn(amess: string): boolean;
18870: Procedure maxBox;
18871: Function AspectRatio(aWidth, aHeight: Integer): String;
18872: function wget(aURL, afile: string): boolean;
18873: procedure PrintList(Value: TStringList);
18874: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
18875: procedure getEnvironmentInfo;
18876: procedure AntiFreeze;
18877: function getBitmap(apath: string): TBitmap;
18878: procedure ShowMessageBig(const aText : string);
18879: function YesNoDialog(const ACaption, AMsg: string): boolean;
18880: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
18881: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
18882: //function myStrToBytes(const Value: String): TBytes;
18883: //function myBytesToStr(const Value: TBytes): String;
18884: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18885: function getBitmap(apath: string): TBitmap;
18886: procedure ShowMessageBig(const aText : string);
18887: Function StrToBytes(const Value: String): TBytes;
18888: Function BytesToStr(const Value: TBytes): String;
18889: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
18890: function ReversedDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout:TimeOut;Retries:Int;var HostName:String):Bool;
18891: function FindInPaths(const fileName, paths : String) : String;
18892: procedure initHexArray(var hexn: HexArray);
18893: function josephusG(n,k: integer; var graphout: string): integer;
18894: function isPowerof2(num: int64): boolean;
18895: function powerOf2(exponent: integer): int64;
18896: function getBigPI: string;
18897: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);
18898: function GetASCIILine: string;
18899: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
18900: pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
18901: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
18902: procedure AddComplexSoundObjectToList(newf,newp,newa,neww:integer; freqlist: TStrings);
18903: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
18904: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
18905: function isKeyPressed: boolean;
18906: function Keypress: boolean;
18907: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
18908: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
18909: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
18910: function GetOSName: string;
18911: function GetOSVersion: string;
18912: function GetOSNumber: string;
18913: function getEnvironmentString: string;
18914: procedure StrReplace(var Str: String; Old, New: String);
18915: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18916: function getTeamViewerID: string;
18917: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
18918: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
18919: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18920: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
18921: function StartSocketService: Boolean;
18922: procedure StartSocketServiceForm;
18923: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
18924: function GetFileList1(apath: string): TStringlist;
18925: procedure LetFileList(FileList: TStringlist; apath: string);
18926: procedure StartWeb(aurl: string);
18927: function GetTodayFiles(startdir, amask: string): TStringlist;
18928: function PortTCPISOpen(dwPort: Word; ipAddressStr: String): boolean;
18929: function JavahashCode(val: string): Integer;
18930: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
18931: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
18932: Procedure HideWindowForSeconds(secs: integer); //3 seconds
18933: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
18934: Procedure ConvertToGray(Cnv: TCanvas);
18935: function GetFileDate(aFile:string; aWithTime:Boolean):string;
18936: procedure ShowMemory;
18937: function ShowMemory2: string;
18938: function getHostIP: string;
18939: procedure ShowBitmap(bmap: TBitmap);
18940: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
18941: function CreateDBGridForm(dblist: TStringList): TListBox;
18942: function isService: boolean;
18943: function isApplication: boolean;
18944: function isTerminalSession: boolean;
18945:
18946:
18947: // News of 3.9.8 up
18948: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18949: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18950: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18951: JvChart - TJvChart Component - 2009 Public
18952: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
18953: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
18954: TADOQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions

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18955: DMath DLL included incl. Demos
18956: Interface Navigator menu/View/Intf Navigator
18957: Unit Explorer menu/Debug/Units Explorer
18958: EKON 16 Slides .\maxbox3\docs\utils Excel Export maxExcel
18959: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
18960: Script History to 9 Files WebServer light /Options/Addons/WebServer
18961: Full Text Finder, JVSimLogic Simulator Package
18962: Halt-Stop Program in Menu, WebServer2, Stop Event ,
18963: Conversion Routines, Prebuild Forms, CodeSearch
18964: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
18965: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
18966: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
18967: JvChart - TJvChart Component - 2009 Public, mXGames, JvgXMLSerializer, TJvPaintFX
18968: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PFDLib
18969: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
18970: IDE Reflection API, Session Service Shell S3
18971: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
18972: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
18973: arduino map() function, PRMRandom Generator
18974: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
18975: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
18976: REST Test Lib, Multilang Component, Forth Interpreter
18977: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
18978: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
18979: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18980: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
18981: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
18982: QRCode Service, add more CFunctions like CDateTime of Synapse
18983: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
18984: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
18985: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
18986: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units
18987: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
18988: BOLD Package, Indy Package5, maTRIX. MATHEMAX
18989: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
18990: emax layers: system-package-component-unit-class-function-block
18991: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
18992: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
18993: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
18994: OpenGL Game Demo: ..Options/Add Ons/Reversi
18995: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
18996: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
18997: 7% performance gain (hot spot profiling)
18998: PEP -Pascal Education Program , GSM Module, CGI, PHP Runner
18999: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
19000: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
19001: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
19002:
19003: add routines in 3.9.7.5
19004: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEexec);
19005: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEexec);
19006: 069: procedure RIRegister_IdStrings_Routines(S: TPSEexec);
19007: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEexec);
19008: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEexec);
19009: 374: procedure RIRegister_SerDlgs_Routines(S: TPSEexec);
19010: 777: procedure RIRegister_LinarBitmap_Routines(S: TPSEexec);
19011:
19012: ////////////////////////////////////////////////////////////////// TestUnits //////////////////////////////////////////////////////////////////
19013: SelfTestPEM;
19014: SelfTestCFundamentUtils;
19015: SelfTestCFileUtils;
19016: SelfTestCDateTime;
19017: SelfTestCTimer;
19018: SelfTestCRandom;
19019: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter
19020:           Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath
19021:
19022: // Note: There's no need for installing a client certificate in the
19023: //        webbrowser. The server asks the webbrowser to send a certificate but
19024: //        if nothing is installed the software will work because the server
19025: //        doesn't check to see if a client certificate was supplied. If you want you can install:
19026: //        file: c_cacert.p12
19027: //        password: c_cakey
19028:
19029: TGraphicControl = class(TControl)
19030: private
19031:   FCanvas: TCanvas;
19032:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
19033: protected
19034:   procedure Paint; virtual;
19035:   property Canvas: TCanvas read FCanvas;
19036: public
19037:   constructor Create(AOwner: TComponent); override;
19038:   destructor Destroy; override;
19039: end;
19040:
19041: TCustomControl = class(TWinControl)
19042: private
19043:   FCanvas: TCanvas;

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19044:     procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
19045:   protected
19046:     procedure Paint; virtual;
19047:     procedure PaintWindow(DC: HDC); override;
19048:     property Canvas: TCanvas read FCanvas;
19049:   public
19050:     constructor Create(AOwner: TComponent); override;
19051:     destructor Destroy; override;
19052:   end;
19053:   RegisterPublishedProperties;
19054:   ('ONCHANGE', 'TNotifyEvent', iptrw);
19055:   ('ONCLICK', 'TNotifyEvent', iptrw);
19056:   ('ONDBLCLICK', 'TNotifyEvent', iptrw);
19057:   ('ONENTER', 'TNotifyEvent', iptrw);
19058:   ('ONEXIT', 'TNotifyEvent', iptrw);
19059:   ('ONKEYDOWN', 'TKeyEvent', iptrw);
19060:   ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
19061:   ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
19062:   ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
19063:   ('ONMOUSEUP', 'TMouseEvent', iptrw);
19064: //*****
19065: // To stop the while loop, click on Options>Show Include (boolean switch) !
19066: Control a loop in a script with a form event:
19067: IncludeON; //control the while loop
19068: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
19069:
19070: //-----
19071: //*****mX4 ini-file Configuration*****
19072: //-----
19073: using config file maxboxdef.ini      menu/Help/Config File
19074:
19075: //*** Definitions for maxBox mX3 ***
19076: [FORM]
19077: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
19078: FONTSIZE=14
19079: EXTENSION=txt
19080: SCREENX=1386
19081: SCREENY=1077
19082: MEMHEIGHT=350
19083: PRINTFONT=Courier New //GUI Settings
19084: LINENUMBERS=Y //line numbers at gutter in editor at left side
19085: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! -menu Debug>Show Last Exceptions
19086: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
19087: BOOTSCRIPT=Y //enabling load a boot script
19088: MEMORYREPORT=Y //shows memory report on closing maxBox
19089: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
19090: NAVIGATOR=N //shows function list at the right side of editor
19091: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
19092: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
19093: [WEB]
19094: IPPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
19095: IPHOST=192.168.1.53
19096: ROOTCERT=filepathY
19097: SCERT=filepathY
19098: RSAKEY=filepathY
19099: VERSIONCHECK=Y
19100:
19101: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
19102:
19103: Also possible to set report memory in script to override ini setting
19104: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
19105:
19106:
19107: After Change the ini file you can reload the file with ..../Help/Config Update
19108:
19109: //-----
19110: //*****mX4 maildef.ini ini-file Configuration*****
19111: //-----
19112: //*** Definitions for maxMail ***
19113: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
19114: [MAXMAIL]
19115: HOST=getmail.softwareschule.ch
19116: USER=mailusername
19117: PASS=password
19118: PORT=110
19119: SSL=Y
19120: BODY=Y
19121: LAST=5
19122:
19123: ADO Connection String:
19124: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
19125:
19126: \452_dbtreeview2access.txt
19127: program TestDbTreeViewMainForm2_ACCESS;
19128:   ConnectionString:='Provider=Microsoft.Jet.OLEDB.4.0;Data Source='
19129:             +Exepath+'\examples\detail.mdb;Persist Security Info=False';
19130:
19131: OpenSSL Lib: unit ssl_openssl_lib;
19132: {$IFDEF CIL}
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19133: const
19134:   ($IFDEF LINUX)
19135:   DLLSSLName = 'libssl.so';
19136:   DLLUtilName = 'libcrypto.so';
19137:   ($ELSE)
19138:   DLLSSLName = 'ssleay32.dll';
19139:   DLLUtilName = 'libeay32.dll';
19140:   ($ENDIF)
19141:   ($ELSE)
19142: var
19143:   ($IFDEF MSWINDOWS)
19144:     ($IFDEF DARWIN)
19145:       DLLSSLName: string = 'libssl.dylib';
19146:       DLLUtilName: string = 'libcrypto.dylib';
19147:     ($ELSE)
19148:       DLLSSLName: string = 'libssl.so';
19149:       DLLUtilName: string = 'libcrypto.so';
19150:     ($ENDIF)
19151:   ($ELSE)
19152:     DLLSSLName: string = 'ssleay32.dll';
19153:     DLLSSLName2: string = 'libssl32.dll';
19154:     DLLUtilName: string = 'libeay32.dll';
19155:   ($ENDIF)
19156:   ($ENDIF)
19157:
19158:
19159: //-----
19160: //*****mX4 Macro Tags *****
19161: //-----
19162:
19163:   asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funcList399.txt end
19164:
19165: //Tag Macros
19166:
19167:   asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
19168:
19169: //Tag Macros
19170: 10188: SearchAndCopy(memo1.lines, '#name', getUserNameWin, 11);
19171: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
19172: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
19173: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
19174: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
19175: 10199: SearchAndCopy(memo1.lines, '#fils', fname + '+SHA1(Act_Filename), 11);
19176: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
19177: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
19178: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s',
19179:   [getUserNameWin, getComputernameWin, datetimetoStr(now),
19180: 10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s: %s %s',
19181: 10197: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]], 11));
19182: [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]], 11));
19183: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
19184: [perftime, numprocesssthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]], 11);
19185: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
19186: [getDNS, GetLocalIPs, getIPAddress(getComputerNameWin)]), 10);
19187:
19188: //#tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
19189:
19190: //Replace Macros
19191:   SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
19192:   SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
19193:   SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
19194:   SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPath, 9);
19195:   SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
19196:   SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
19197:
19198:   SearchAndCopy(memo1.lines, '#tech!perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19199:   [perftime,numprocesssthreads,getIPAddress(getComputerNameWin),timetoStr(time),mbversion]], 11));
19200: //#tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19201:   SearchAndCopy(memo1.lines, 'maxbox_extract_funcList399.txt
19202:
19203: //-----
19204: //*****mX4 ToDo List Tags .../Help/ToDo List*****
19205: //-----
19206:
19207:   while I < sl.Count do begin
19208:   //     if MatchesMask(sl[I], '/? TODO ([a-z0-9_]*#[1-9]#)*:*') then
19209:     if MatchesMask(sl[I], '/? TODO (?#?#)*:*') then
19210:       BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
19211:     else if MatchesMask(sl[I], '/? DONE (?#?#)*:*') then
19212:       BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
19213:     else if MatchesMask(sl[I], '/? TODO (#?#)*:*') then
19214:       BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
19215:     else if MatchesMask(sl[I], '/? DONE (#?#)*:*') then
19216:       BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
19217:     else if MatchesMask(sl[I], '/?.TODO*:*)' then
19218:       BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
19219:     else if MatchesMask(sl[I], '/?.*DONE*:*)' then
19220:       BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE

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19221:     Inc(I);
19222:   end;
19223:
19224:
19225: //-----mX4 Public Tools API -----
19226: //*****mX4 Public Tools API *****
19227: //-----
19228:   file : unit uPSI_fMain.pas;           [SOTAP] Open Tools API Catalog
19229:   // Those functions concern the editor and preprocessor, all of the IDE
19230: Example: Call it with maxform1.InfolClick(self)
19231: Note: Call all Methods with maxForm1., e.g.:
19232:         maxForm1.ShellStyle1Click(self);
19233:
19234: procedure SIRegister_fMain(CL: TPSPascalCompiler);
19235: begin
19236:   Const ('BYTECODE','String 'bytecode.txt'
19237:   Const ('PSTEXT','String PS Scriptfiles (*.txt)|*.TXT)'
19238:   Const ('PSMODEL','String PS Modelfiles (*.uc)|*.UC
19239:   Const ('PSPASCAL','String PS Pascalfiles (*.pas)|*.PAS
19240:   Const ('PSINC','String PS Includes (*.inc)|*.INC
19241:   Const ('DEFFILENAME','String 'firstdemo.txt
19242:   Const ('DEFINIFILE','String 'maxboxdef.ini
19243:   Const ('EXCEPTLOGFILE','String 'maxboxerrorlog.txt
19244:   Const ('ALLFUNCTIONSLIST','String 'upsi_allfunctionslist.txt
19245:   Const ('ALLFUNCTIONSLISTPDF','String 'maxbox_functions_all.pdf
19246:   Const ('ALLOBJECTSLIST','String 'docs\VCL.pdf
19247:   Const ('ALLRESOURCELIST','String 'docs\upsi_allresourcelist.txt
19248:   Const ('ALLUNITLIST','String 'docs\maxbox3_9.xml');
19249:   Const ('INCLUDEBOX','String 'pas_includebox.inc
19250:   Const ('BOOTSCRIPT','String 'maxbootscript.txt
19251:   Const ('MBVERSION','String '3.9.9.98
19252:   Const ('VERSION','String'3.9.9.98
19253:   Const ('MBVER','String '399
19254:   Const ('MBVERI','Integer'(399);
19255:   Const ('MBVERIALL','Integer'(39988);
19256:   Const ('EXENAME','String 'maxBox3.exe
19257:   Const ('MXSITE','String 'http://www.softwareschule.ch/maxbox.htm
19258:   Const ('MXVERSIONFILE','String 'http://www.softwareschule.ch/maxvfile.txt
19259:   Const ('MXVERSIONFILE2','String 'http://www.softwareschule.ch/maxvfile2.txt
19260:   Const ('MXINTERNETCHECK','String 'www.ask.com
19261:   Const ('MXMAIL','String 'max@kleiner.com
19262:   Const ('TAB','Char #'#09);
19263:   Const ('CODECOMPLETION','String 'bds_delphi.dci
19264:   SIRegister_TMaxForm1(CL);
19265: end;
19266:
19267:   with FindClass ('TForm'),'TMaxForm1') do begin
19268:     memo2', 'TMemo', iptrw);
19269:     memo1', 'TSynMemo', iptrw);
19270:     CB1SCList', 'TComboBox', iptrw);
19271:     mxNavigator', 'TComboBox', iptrw);
19272:     IPHost', 'string', iptrw);
19273:     IPPort', 'integer', iptrw);
19274:     COMPort', 'integer', iptrw);      //3.9.6.4
19275:     Splitter1', 'TSplitter', iptrw);
19276:     PS3Script', 'TPSScript', iptrw);
19277:     PS3DllPlugin', 'TPSDllPlugin', iptrw);
19278:     MainMenul', 'TMainMenu', iptrw);
19279:     Program1', 'TMenuItem', iptrw);
19280:     Compilel', 'TMenuItem', iptrw);
19281:     Files1', 'TMenuItem', iptrw);
19282:     open1', 'TMenuItem', iptrw);
19283:     Save2', 'TMenuItem', iptrw);
19284:     Options1', 'TMenuItem', iptrw);
19285:     Savebefore1', 'TMenuItem', iptrw);
19286:     Largefont1', 'TMenuItem', iptrw);
19287:     sBytecode1', 'TMenuItem', iptrw);
19288:     Saveas3', 'TMenuItem', iptrw);
19289:     Clear1', 'TMenuItem', iptrw);
19290:     Slinenumbers1', 'TMenuItem', iptrw);
19291:     About1', 'TMenuItem', iptrw);
19292:     Search1', 'TMenuItem', iptrw);
19293:     SynPasSyn1', 'TSynPasSyn', iptrw);
19294:     memo1', 'TSynMemo', iptrw);
19295:     SynEditSearch1', 'TSynEditSearch', iptrw);
19296:     WordWrap1', 'TMenuItem', iptrw);
19297:     XManifest1', 'TXPManifest', iptrw);
19298:     SearchNext1', 'TMenuItem', iptrw);
19299:     Replace1', 'TMenuItem', iptrw);
19300:     PSImport_Controls1', 'TPSImport_Controls', iptrw);
19301:     PSImport_Classes1', 'TPSImport_Classes', iptrw);
19302:     ShowInclude1', 'TMenuItem', iptrw);
19303:     SynEditPrint1', 'TSynEditPrint', iptrw);
19304:     Printout1', 'TMenuItem', iptrw);
19305:     mnPrintColors1', 'TMenuItem', iptrw);
19306:     dlgFilePrint', 'TPrintDialog', iptrw);
19307:     dlgPrintFont1', 'TFontDialog', iptrw);
19308:     mnuPrintFont1', 'TMenuItem', iptrw);
19309:     Include1', 'TMenuItem', iptrw);

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19310:     CodeCompletionList1', 'TMenuItem', iptrw);
19311:     IncludeList1', 'TMenuItem', iptrw);
19312:     ImageList1', 'TImageList', iptrw);
19313:     ImageList2', 'TImageList', iptrw);
19314:     CoolBar1', 'TCoolBar', iptrw);
19315:     ToolBar1', 'TToolBar', iptrw);
19316:     btnLoad', 'TToolButton', iptrw);
19317:     ToolButton2', 'TToolButton', iptrw);
19318:     btnFind', 'TToolButton', iptrw);
19319:     btnCompile', 'TToolButton', iptrw);
19320:     btnTrans', 'TToolButton', iptrw);
19321:     btnUseCase', 'TToolButton', iptrw); //3.8
19322:     toolbtnTutorial', 'TToolButton', iptrw);
19323:     btnn6res', 'TToolButton', iptrw);
19324:     ToolButton5', 'TToolButton', iptrw);
19325:     ToolButton1', 'TToolButton', iptrw);
19326:     ToolButton3', 'TToolButton', iptrw);
19327:     statusBar1', 'TStatusBar', iptrw);
19328:     SaveOutput1', 'TMenuItem', iptrw);
19329:     ExportClipboard1', 'TMenuItem', iptrw);
19330:     Close1', 'TMenuItem', iptrw);
19331:     Manual1', 'TMenuItem', iptrw);
19332:     About2', 'TMenuItem', iptrw);
19333:     loadLastfile1', 'TMenuItem', iptrw);
19334:     imgLogo', 'TImage', iptrw);
19335:     cedebug', 'TPSScriptDebugger', iptrw);
19336:     debugPopupMenu', 'TPopupMenu', iptrw);
19337:     BreakPointMenu', 'TMenuItem', iptrw);
19338:     Decompile1', 'TMenuItem', iptrw);
19339:     StepInto1', 'TMenuItem', iptrw);
19340:     StepOut1', 'TMenuItem', iptrw);
19341:     Reset1', 'TMenuItem', iptrw);
19342:     DebugRun1', 'TMenuItem', iptrw);
19343:     PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
19344:     PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
19345:     PSImport_Forms1', 'TPSImport_Forms', iptrw);
19346:     PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
19347:     tutorial4', 'TMenuItem', iptrw);
19348:     ExporttoClipboard1', 'TMenuItem', iptrw);
19349:     ImportfromClipboard1', 'TMenuItem', iptrw);
19350:     N4', 'TMenuItem', iptrw);
19351:     N5', 'TMenuItem', iptrw);
19352:     N6', 'TMenuItem', iptrw);
19353:     ImportfromClipboard2', 'TMenuItem', iptrw);
19354:     tutorial1', 'TMenuItem', iptrw);
19355:     N7', 'TMenuItem', iptrw);
19356:     ShowSpecChars1', 'TMenuItem', iptrw);
19357:     OpenDirectory1', 'TMenuItem', iptrw);
19358:     procMess', 'TMenuItem', iptrw);
19359:     btnUseCase', 'TToolButton', iptrw);
19360:     ToolButton7', 'TToolButton', iptrw);
19361:     EditFont1', 'TMenuItem', iptrw);
19362:     UseCase1', 'TMenuItem', iptrw);
19363:     tutorial21', 'TMenuItem', iptrw);
19364:     OpenUseCase1', 'TMenuItem', iptrw);
19365:     PSImport_DB1', 'TPSImport_DB', iptrw);
19366:     tutorial31', 'TMenuItem', iptrw);
19367:     SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
19368:     HTMLEntax1', 'TMenuItem', iptrw);
19369:     ShowInterfaces1', 'TMenuItem', iptrw);
19370:     Tutorial5', 'TMenuItem', iptrw);
19371:     AllFunctionsList1', 'TMenuItem', iptrw);
19372:     ShowLastException1', 'TMenuItem', iptrw);
19373:     PlayMP31', 'TMenuItem', iptrw);
19374:     SynTeXSyn1', 'TSynTeXSyn', iptrw);
19375:     texSyntax1', 'TMenuItem', iptrw);
19376:     N8', 'TMenuItem', iptrw);
19377:     GetEMails1', 'TMenuItem', iptrw);
19378:     SynCppSyn1', 'TSynCppSyn', iptrw);
19379:     CSyntax1', 'TMenuItem', iptrw);
19380:     Tutorial6', 'TMenuItem', iptrw);
19381:     New1', 'TMenuItem', iptrw);
19382:     AllObjectsList1', 'TMenuItem', iptrw);
19383:     LoadBytecode1', 'TMenuItem', iptrw);
19384:     CipherFile1', 'TMenuItem', iptrw);
19385:     N9', 'TMenuItem', iptrw);
19386:     N10', 'TMenuItem', iptrw);
19387:     Tutorial111', 'TMenuItem', iptrw);
19388:     Tutorial71', 'TMenuItem', iptrw);
19389:     UpdateService1', 'TMenuItem', iptrw);
19390:     PascalSchool1', 'TMenuItem', iptrw);
19391:     Tutorial81', 'TMenuItem', iptrw);
19392:     DelphiSite1', 'TMenuItem', iptrw);
19393:     Output1', 'TMenuItem', iptrw);
19394:     TerminalStyle1', 'TMenuItem', iptrw);
19395:     ReadOnly1', 'TMenuItem', iptrw);
19396:     Shellstyle1', 'TMenuItem', iptrw);
19397:     BigScreen1', 'TMenuItem', iptrw);
19398:     Tutorial91', 'TMenuItem', iptrw);
```

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19399: SaveOutput2', 'TMenuItem', iptrw);
19400: N11', 'TMenuItem', iptrw);
19401: SaveScreenshot', 'TMenuItem', iptrw);
19402: Tutorial101', 'TMenuItem', iptrw);
19403: SQLSyntax1', 'TMenuItem', iptrw);
19404: SynSQLSyn1', 'TSynSQLSyn', iptrw);
19405: Console1', 'TMenuItem', iptrw);
19406: SynXMLSyn1', 'TSynXMLSyn', iptrw);
19407: XMLSyntax1', 'TMenuItem', iptrw);
19408: ComponentCount1', 'TMenuItem', iptrw);
19409: NewInstance1', 'TMenuItem', iptrw);
19410: toolbtnTutorial', 'TToolButton', iptrw);
19411: Memory1', 'TMenuItem', iptrw);
19412: SynJavaSyn1', 'TSynJavaSyn', iptrw);
19413: JavaSyntax1', 'TMenuItem', iptrw);
19414: SyntaxCheck1', 'TMenuItem', iptrw);
19415: Tutorial10Statistics1', 'TMenuItem', iptrw);
19416: ScriptExplorer1', 'TMenuItem', iptrw);
19417: FormOutput1', 'TMenuItem', iptrw);
19418: ArduinoDump1', 'TMenuItem', iptrw);
19419: AndroidDump1', 'TMenuItem', iptrw);
19420: GotoEnd1', 'TMenuItem', iptrw);
19421: AllResourceList1', 'TMenuItem', iptrw);
19422: ToolButton4', 'TToolButton', iptrw);
19423: btn6res', 'TToolButton', iptrw);
19424: Tutorial11Forms1', 'TMenuItem', iptrw);
19425: Tutorial12SQL1', 'TMenuItem', iptrw);
19426: ResourceExplore1', 'TMenuItem', iptrw);
19427: Info1', 'TMenuItem', iptrw);
19428: N12', 'TMenuItem', iptrw);
19429: CryptoBox1', 'TMenuItem', iptrw);
19430: Tutorial13Ciphering1', 'TMenuItem', iptrw);
19431: CipherFile2', 'TMenuItem', iptrw);
19432: N13', 'TMenuItem', iptrw);
19433: ModulesCount1', 'TMenuItem', iptrw);
19434: AddOns2', 'TMenuItem', iptrw);
19435: N4GewinntGame1', 'TMenuItem', iptrw);
19436: DocuforAddOns1', 'TMenuItem', iptrw);
19437: Tutorial14Async1', 'TMenuItem', iptrw);
19438: Lessons15Review1', 'TMenuItem', iptrw);
19439: SynPHPSyn1', 'TSynPHPSyn', iptrw);
19440: PHPSyntax1', 'TMenuItem', iptrw);
19441: Breakpoint1', 'TMenuItem', iptrw);
19442: SerialRS2321', 'TMenuItem', iptrw);
19443: N14', 'TMenuItem', iptrw);
19444: SynCSSyn1', 'TSynCSSyn', iptrw);
19445: CSyntax2', 'TMenuItem', iptrw);
19446: Calculator1', 'TMenuItem', iptrw);
19447: btnSerial', 'TToolButton', iptrw);
19448: ToolButton8', 'TToolbutton', iptrw);
19449: Tutorial151', 'TMenuItem', iptrw);
19450: N15', 'TMenuItem', iptrw);
19451: N16', 'TMenuItem', iptrw);
19452: ControlBar1', 'TControlBar', iptrw);
19453:ToolBar2', 'TToolBar', iptrw);
19454: BtnOpen', 'TToolButton', iptrw);
19455: BtnSave', 'TToolButton', iptrw);
19456: BtnPrint', 'TToolButton', iptrw);
19457: BtnColors', 'TToolButton', iptrw);
19458: btnClassReport', 'TToolButton', iptrw);
19459: BtnRotateRight', 'TToolButton', iptrw);
19460: BtnFullScreen', 'TToolButton', iptrw);
19461: BtnFitToWindowSize', 'TToolButton', iptrw);
19462: BtnZoomMinus', 'TToolButton', iptrw);
19463: BtnZoomPlus', 'TToolButton', iptrw);
19464: Panel1', 'TPanel', iptrw);
19465: LabelBrettgroesse', ' TLabel', iptrw);
19466: CB1SCList', 'TComboBox', iptrw);
19467: ImageListNormal', 'TImageList', iptrw);
19468: spbtnexployre', 'TSpeedButton', iptrw);
19469: spbtnexample', 'TSpeedButton', iptrw);
19470: spbsaveas', 'TSpeedButton', iptrw);
19471: imglogobox', 'TImage', iptrw);
19472: EnlargeFont1', 'TMenuItem', iptrw);
19473: EnlargeFont2', 'TMenuItem', iptrw);
19474: ShrinkFont1', 'TMenuItem', iptrw);
19475: ThreadDemo1', 'TMenuItem', iptrw);
19476: HEXEditor1', 'TMenuItem', iptrw);
19477: HEXView1', 'TMenuItem', iptrw);
19478: HEXInspect1', 'TMenuItem', iptrw);
19479: SynExporterHTML1', 'TSynExporterHTML', iptrw);
19480: ExporttoHTML1', 'TMenuItem', iptrw);
19481: ClassCount1', 'TMenuItem', iptrw);
19482: HTMLOutput1', 'TMenuItem', iptrw);
19483: HEXEditor2', 'TMenuItem', iptrw);
19484: Minesweeper1', 'TMenuItem', iptrw);
19485: N17', 'TMenuItem', iptrw);
19486: PicturePuzzle1', 'TMenuItem', iptrw);
19487: sbvc1help', 'TSpeedButton', iptrw);
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19488: DependencyWalker1', 'TMenuItem', iptrw);
19489: WebScanner1', 'TMenuItem', iptrw);
19490: View1', 'TMenuItem', iptrw);
19491: mnToolbar1', 'TMenuItem', iptrw);
19492: mnStatusbar2', 'TMenuItem', iptrw);
19493: mnConsole2', 'TMenuItem', iptrw);
19494: mnCoolbar2', 'TMenuItem', iptrw);
19495: mnSplitter2', 'TMenuItem', iptrw);
19496: WebServer1', 'TMenuItem', iptrw);
19497: Tutorial17Server1', 'TMenuItem', iptrw);
19498: Tutorial18Arduino1', 'TMenuItem', iptrw);
19499: SynPerlSyn1', 'TSynPerlSyn', iptrw);
19500: PerlSyntax1', 'TMenuItem', iptrw);
19501: SynPythonSyn1', 'TSynPythonSyn', iptrw);
19502: PythonSyntax1', 'TMenuItem', iptrw);
19503: DMathLibrary1', 'TMenuItem', iptrw);
19504: IntfNavigator1', 'TMenuItem', iptrw);
19505: EnlargeFontConsole1', 'TMenuItem', iptrw);
19506: ShrinkFontConsole1', 'TMenuItem', iptrw);
19507: SetInterfaceList1', 'TMenuItem', iptrw);
19508: popintfList', 'TPopupMenu', iptrw);
19509: intfAdd1', 'TMenuItem', iptrw);
19510: intfDelete1', 'TMenuItem', iptrw);
19511: intfRefactor1', 'TMenuItem', iptrw);
19512: Defactor1', 'TMenuItem', iptrw);
19513: Tutorial19COMArduino1', 'TMenuItem', iptrw);
19514: Tutorial20Regex', 'TMenuItem', iptrw);
19515: N18', 'TMenuItem', iptrw);
19516: ManualE1', 'TMenuItem', iptrw);
19517: FullTextFinder1', 'TMenuItem', iptrw);
19518: Move1', 'TMenuItem', iptrw);
19519: FractalDemo1', 'TMenuItem', iptrw);
19520: Tutorial21Android1', 'TMenuItem', iptrw);
19521: Tutorial0Function1', 'TMenuItem', iptrw);
19522: SimuLogBox1', 'TMenuItem', iptrw);
19523: OpenExamples1', 'TMenuItem', iptrw);
19524: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
19525: JavaScriptSyntax1', 'TMenuItem', iptrw);
19526: Halt1', 'TMenuItem', iptrw);
19527: CodeSearch1', 'TMenuItem', iptrw);
19528: SynRubySyn1', 'TSynRubySyn', iptrw);
19529: RubySyntax1', 'TMenuItem', iptrw);
19530: Undo1', 'TMenuItem', iptrw);
19531: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
19532: LinuxShellScript1', 'TMenuItem', iptrw);
19533: Rename1', 'TMenuItem', iptrw);
19534: spdcodesearch', 'TSpeedButton', iptrw);
19535: Preview1', 'TMenuItem', iptrw);
19536: Tutorial22Services1', 'TMenuItem', iptrw);
19537: Tutorial23RealTime1', 'TMenuItem', iptrw);
19538: Configuration1', 'TMenuItem', iptrw);
19539: MP3Player1', 'TMenuItem', iptrw);
19540: DLLSpy1', 'TMenuItem', iptrw);
19541: SynURIOpener1', 'TSynURIOpener', iptrw);
19542: SynURISyn1', 'TSynURISyn', iptrw);
19543: URILinksClicks1', 'TMenuItem', iptrw);
19544: EditReplace1', 'TMenuItem', iptrw);
19545: GotoLine1', 'TMenuItem', iptrw);
19546: ActiveLineColor1', 'TMenuItem', iptrw);
19547: ConfigFile1', 'TMenuItem', iptrw);
19548: Sort1Intflist', 'TMenuItem', iptrw);
19549: Redo1', 'TMenuItem', iptrw);
19550: Tutorial24CleanCode1', 'TMenuItem', iptrw);
19551: Tutorial25Configuration1', 'TMenuItem', iptrw);
19552: IndentSelection1', 'TMenuItem', iptrw);
19553: UnindentSection1', 'TMenuItem', iptrw);
19554: SkyStyle1', 'TMenuItem', iptrw);
19555: N19', 'TMenuItem', iptrw);
19556: CountWords1', 'TMenuItem', iptrw);
19557: imbookmarkimages', 'TImageList', iptrw);
19558: Bookmark11', 'TMenuItem', iptrw);
19559: N20', 'TMenuItem', iptrw);
19560: Bookmark21', 'TMenuItem', iptrw);
19561: Bookmark31', 'TMenuItem', iptrw);
19562: Bookmark41', 'TMenuItem', iptrw);
19563: SynMultiSyn1', 'TSynMultiSyn', iptrw);
19564:
19565: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
19566: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
19567: Procedure PSScriptCompile( Sender : TPSScript)
19568: Procedure Compile1Click( Sender : TObject)
19569: Procedure PSScriptExecute( Sender : TPSScript)
19570: Procedure open1Click( Sender : TObject)
19571: Procedure Save2Click( Sender : TObject)
19572: Procedure Savebefore1Click( Sender : TObject)
19573: Procedure Largefont1Click( Sender : TObject)
19574: Procedure FormActivate( Sender : TObject)
19575: Procedure SBytecode1Click( Sender : TObject)
19576: Procedure FormKeyPress( Sender : TObject; var Key : Char)

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19577: Procedure Saveas3Click( Sender : TObject )
19578: Procedure Clear1Click( Sender : TObject )
19579: Procedure Slinenumbers1Click( Sender : TObject )
19580: Procedure About1Click( Sender : TObject )
19581: Procedure Search1Click( Sender : TObject )
19582: Procedure FormCreate( Sender : TObject )
19583: Procedure Memo1ReplaceText( Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
19584:                                         var Action : TSynReplaceAction )
19585: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges )
19586: Procedure WordWrap1Click( Sender : TObject )
19587: Procedure SearchNext1Click( Sender : TObject )
19588: Procedure Replace1Click( Sender : TObject )
19589: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
19590: Procedure ShowInclude1Click( Sender : TObject )
19591: Procedure Printout1Click( Sender : TObject )
19592: Procedure mnuPrintFont1Click( Sender : TObject )
19593: Procedure Include1Click( Sender : TObject )
19594: Procedure FormDestroy( Sender : TObject )
19595: Procedure FormClose( Sender : TObject; var Action : TCloseAction )
19596: Procedure UpdateView1Click( Sender : TObject )
19597: Procedure CodeCompletionList1Click( Sender : TObject )
19598: Procedure SaveOutput1Click( Sender : TObject )
19599: Procedure ExportClipboard1Click( Sender : TObject )
19600: Procedure Close1Click( Sender : TObject )
19601: Procedure Manual1Click( Sender : TObject )
19602: Procedure LoadLastFile1Click( Sender : TObject )
19603: Procedure Memo1Change( Sender : TObject )
19604: Procedure Decompile1Click( Sender : TObject )
19605: Procedure StepInto1Click( Sender : TObject )
19606: Procedure StepOut1Click( Sender : TObject )
19607: Procedure Reset1Click( Sender : TObject )
19608: Procedure cedebugAfterExecute( Sender : TPSScript )
19609: Procedure cedebugBreakpoint(Sender:TObject; const FileName:String; Position,Row, Col: Cardinal)
19610: Procedure cedebugCompile( Sender : TPSScript )
19611: Procedure cedebugExecute( Sender : TPSScript )
19612: Procedure cedebugIdle( Sender : TObject )
19613: Procedure cedebugLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal )
19614: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor );
19615: Procedure BreakPointMenuClick( Sender : TObject )
19616: Procedure DebugRun1Click( Sender : TObject )
19617: Procedure tutorial4Click( Sender : TObject )
19618: Procedure ImportfromClipboard1Click( Sender : TObject )
19619: Procedure ImportfromClipboard2Click( Sender : TObject )
19620: Procedure tutorial1Click( Sender : TObject )
19621: Procedure ShowSpecChars1Click( Sender : TObject )
19622: Procedure StatusBar1DblClick( Sender : TObject )
19623: Procedure PSScriptLine( Sender : TObject )
19624: Procedure OpenDirectory1Click( Sender : TObject )
19625: Procedure procMessClick( Sender : TObject )
19626: Procedure tbtnUseCaseClick( Sender : TObject )
19627: Procedure EditFont1Click( Sender : TObject )
19628: Procedure tutorial21Click( Sender : TObject )
19629: Procedure tutorial31Click( Sender : TObject )
19630: Procedure HTMLSyntax1Click( Sender : TObject )
19631: Procedure ShowInterfaces1Click( Sender : TObject )
19632: Procedure Tutorial5Click( Sender : TObject )
19633: Procedure ShowLastException1Click( Sender : TObject )
19634: Procedure PlayMP31Click( Sender : TObject )
19635: Procedure AllFunctionsList1Click( Sender : TObject )
19636: Procedure texSyntax1Click( Sender : TObject )
19637: Procedure GetEMails1Click( Sender : TObject )
19638: procedure DelphiSite1Click(Sender: TObject);
19639: procedure TerminalStyle1Click(Sender: TObject);
19640: procedure ReadOnly1Click(Sender: TObject);
19641: procedure ShellStyle1Click(Sender: TObject);
19642: procedure Console1Click(Sender: TObject); //3.2
19643: procedure BigScreen1Click(Sender: TObject);
19644: procedure Tutorial91Click(Sender: TObject);
19645: procedure SaveScreenshotClick(Sender: TObject);
19646: procedure Tutorial101Click(Sender: TObject);
19647: procedure SQLSyntax1Click(Sender: TObject);
19648: procedure XMLSyntax1Click(Sender: TObject);
19649: procedure ComponentCount1Click(Sender: TObject);
19650: procedure NewInstance1Click(Sender: TObject);
19651: procedure CSyntax1Click(Sender: TObject);
19652: procedure Tutorial6Click(Sender: TObject);
19653: procedure New1Click(Sender: TObject);
19654: procedure AllObjectsList1Click(Sender: TObject);
19655: procedure LoadBytecode1Click(Sender: TObject);
19656: procedure CipherFile1Click(Sender: TObject); //V3.5
19657: procedure NewInstance1Click(Sender: TObject);
19658: procedure toolbtnTutorialClick(Sender: TObject);
19659: procedure Memory1Click(Sender: TObject);
19660: procedure JavaSyntax1Click(Sender: TObject);
19661: procedure SyntaxCheck1Click(Sender: TObject);
19662: procedure ScriptExplorer1Click(Sender: TObject);
19663: procedure FormOutput1Click(Sender: TObject); //V3.6
19664: procedure GotoEnd1Click(Sender: TObject);
19665: procedure AllResourceList1Click(Sender: TObject);

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19666: procedure tbtn6resClick(Sender: TObject); //V3.7
19667: procedure Info1Click(Sender: TObject);
19668: procedure Tutorial10Statistics1Click(Sender: TObject);
19669: procedure Tutorial11Forms1Click(Sender: TObject);
19670: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
19671: procedure ResourceExplore1Click(Sender: TObject);
19672: procedure Info1Click(Sender: TObject);
19673: procedure CryptoBox1Click(Sender: TObject);
19674: procedure ModulesCount1Click(Sender: TObject);
19675: procedure N4GewinntGame1Click(Sender: TObject);
19676: procedure PHPSyntax1Click(Sender: TObject);
19677: procedure SerialRS2321Click(Sender: TObject);
19678: procedure CSyntax2Click(Sender: TObject);
19679: procedure Calculator1Click(Sender: TObject);
19680: procedure Tutorial13Ciphering1Click(Sender: TObject);
19681: procedure Tutorial14Async1Click(Sender: TObject);
19682: procedure PHPSyntax1Click(Sender: TObject);
19683: procedure BtnZoomPlusClick(Sender: TObject);
19684: procedure BtnZoomMinusClick(Sender: TObject);
19685: procedure btnClassReportClick(Sender: TObject);
19686: procedure ThreadDemo1Click(Sender: TObject);
19687: procedure HEXView1Click(Sender: TObject);
19688: procedure ExporttoHTML1Click(Sender: TObject);
19689: procedure Minesweeper1Click(Sender: TObject);
19690: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
19691: procedure sbvc1helpClick(Sender: TObject);
19692: procedure DependencyWalker1Click(Sender: TObject);
19693: procedure CB1SCListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
19694: procedure WebScanner1Click(Sender: TObject);
19695: procedure mnToolbar1Click(Sender: TObject);
19696: procedure mnStatusbar2Click(Sender: TObject);
19697: procedure mnConsole2Click(Sender: TObject);
19698: procedure mnCoolbar2Click(Sender: TObject);
19699: procedure mnSplitter2Click(Sender: TObject);
19700: procedure WebServer1Click(Sender: TObject);
19701: procedure PerlSyntax1Click(Sender: TObject);
19702: procedure PythonSyntax1Click(Sender: TObject);
19703: procedure DMathLibrary1Click(Sender: TObject);
19704: procedure IntfNavigator1Click(Sender: TObject);
19705: procedure FullTextFinder1Click(Sender: TObject);
19706: function AppName: string;
19707: function ScriptName: string;
19708: function LastName: string;
19709: procedure FractalDemo1Click(Sender: TObject);
19710: procedure SimulogBox1Click(Sender: TObject);
19711: procedure OpenExamples1Click(Sender: TObject);
19712: procedure Halt1Click(Sender: TObject);
19713: procedure Stop;
19714: procedure CodeSearch1Click(Sender: TObject);
19715: procedure RubySyntax1Click(Sender: TObject);
19716: procedure Undo1Click(Sender: TObject);
19717: procedure LinuxShellScript1Click(Sender: TObject);
19718: procedure WebScannerDirect(urls: string);
19719: procedure WebScanner(urls: string);
19720: procedure LoadInterfaceList2;
19721: procedure DLLSpy1Click(Sender: TObject);
19722: procedure Memo1DblClick(Sender: TObject);
19723: procedure URILinksClicks1Click(Sender: TObject);
19724: procedure GotoLine1Click(Sender: TObject);
19725: procedure ConfigFile1Click(Sender: TObject);
19726: Procedure Sort1IntflistClick( Sender : TObject )
19727: Procedure Redo1Click( Sender : TObject )
19728: Procedure Tutorial24CleanCode1Click( Sender : TObject )
19729: Procedure IndentSelection1Click( Sender : TObject )
19730: Procedure UnindentSection1Click( Sender : TObject )
19731: Procedure SkyStyle1Click( Sender : TObject )
19732: Procedure CountWords1Click( Sender : TObject )
19733: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark )
19734: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
19735: Procedure Bookmark11Click( Sender : TObject )
19736: Procedure Bookmark21Click( Sender : TObject )
19737: Procedure Bookmark31Click( Sender : TObject )
19738: Procedure Bookmark41Click( Sender : TObject )
19739: Procedure SynMultiSynCustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
19740: 'STATMemoryReport', 'boolean', iptrw);
19741: 'IPPort', 'integer', iptrw);
19742: 'COMPort', 'integer', iptrw);
19743: 'lbintlist', 'TListBox', iptrw);
19744: Function GetStatChange : boolean
19745: Procedure SetStatChange( vstat : boolean )
19746: Function GetActFileName : string
19747: Procedure SetActFileName( vname : string )
19748: Function GetLastFileName : string
19749: Procedure SetLastFileName( vname : string )
19750: Procedure WebScannerDirect( urls : string )
19751: Procedure LoadInterfaceList2
19752: Function GetStatExecuteShell : boolean
19753: Procedure DoEditorExecuteCommand( EditorCommand : word )
19754: function GetActiveLineColor: TColor

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19755: procedure SetActiveLineColor(acolor: TColor)
19756: procedure ScriptListbox1Click(Sender: TObject);
19757: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
19758: procedure EnlargeGutter1Click(Sender: TObject);
19759: procedure Tetris1Click(Sender: TObject);
19760: procedure ToDoList1Click(Sender: TObject);
19761: procedure ProcessList1Click(Sender: TObject);
19762: procedure MetricReport1Click(Sender: TObject);
19763: procedure ProcessList1Click(Sender: TObject);
19764: procedure TCPSockets1Click(Sender: TObject);
19765: procedure ConfigUpdate1Click(Sender: TObject);
19766: procedure ADOWorkbench1Click(Sender: TObject);
19767: procedure SocketServer1Click(Sender: TObject);
19768: procedure FormDemo1Click(Sender: TObject);
19769: procedure Richedit1Click(Sender: TObject);
19770: procedure SimpleBrowser1Click(Sender: TObject);
19771: procedure DOSShell1Click(Sender: TObject);
19772: procedure SynExport1Click(Sender: TObject);
19773: procedure ExporttoRTF1Click(Sender: TObject);
19774: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
19775: procedure SOAPTester1Click(Sender: TObject);
19776: procedure Sniffer1Click(Sender: TObject);
19777: procedure AutoDetectSyntax1Click(Sender: TObject);
19778: procedure FPlot1Click(Sender: TObject);
19779: procedure PasStyle1Click(Sender: TObject);
19780: procedure Tutorial183RGBLED1Click(Sender: TObject);
19781: procedure Reversi1Click(Sender: TObject);
19782: procedure ManualmaXbox1Click(Sender: TObject);
19783: procedure BlaisePascalMagazine1Click(Sender: TObject);
19784: procedure AddToDo1Click(Sender: TObject);
19785: procedure CreateGUID1Click(Sender: TObject);
19786: procedure Tutorial27XML1Click(Sender: TObject);
19787: procedure CreateDLLStub1Click(Sender: TObject);
19788: procedure Tutorial28DLL1Click(Sender: TObject);');
19789: procedure ResetKeyPressed;');
19790: procedure FileChanges1Click(Sender: TObject);');
19791: procedure OpenGLTry1Click(Sender: TObject);');
19792: procedure AllUnitList1Click(Sender: TObject);');
19793: procedure Tutorial29UMLClick(Sender: TObject);
19794: procedure CreateHeader1Click(Sender: TObject);
19795:
19796: //-----
19797: //*****mX4 Editor SynEdit Tools API *****
19798: //-----
19799: procedure SIRegister_TCustomSynEdit(CL: TPPSPascalCompiler);
19800: begin
19801:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
19802:   with FindClass('TCustomControl','TCustomSynEdit') do begin
19803:     Constructor Create(AOwner : TComponent)
19804:     SelStart', 'Integer', iptrw);
19805:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
19806:     Procedure UpdateCaret
19807:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19808:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
19809:     Procedure BeginUndoBlock
19810:     Procedure BeginUpdate
19811:     Function CaretInView : Boolean
19812:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
19813:     Procedure Clear
19814:     Procedure ClearAll
19815:     Procedure ClearBookMark( BookMark : Integer )
19816:     Procedure ClearSelection
19817:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
19818:     Procedure ClearUndo
19819:     Procedure CopyToClipboard
19820:     Procedure CutToClipboard
19821:     Procedure DoCopyToClipboard( const SText : string )
19822:     Procedure EndUndoBlock
19823:     Procedure EndUpdate
19824:     Procedure EnsureCursorPosVisible
19825:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
19826:     Procedure FindMatchingBracket
19827:     Function GetMatchingBracket : TBufferCoord
19828:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
19829:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
19830:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
19831:     Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attr : TSynHighlighterAttributes ) : boolean
19832:     Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
19833:       var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
19834:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
19835:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
19836:     Procedure GotoBookMark( BookMark : Integer )
19837:     Procedure GotoLineAndCenter( ALine : Integer )
19838:     Function IdentChars : TSynIdentChars
19839:     Procedure InvalidateGutter
19840:     Procedure InvalidateGutterLine( aLine : integer )
19841:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
19842:     Procedure InvalidateLine( Line : integer )

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19844: Procedure InvalidateLines( FirstLine, LastLine : integer)
19845: Procedure InvalidateSelection
19846: Function IsBookmark( BookMark : integer) : boolean
19847: Function IsPointInSelection( const Value : TBufferCoord) : boolean
19848: Procedure LockUndo
19849: Function BufferToDisplayPos( const p : TBufferCoord) : TDisplayCoord
19850: Function DisplayToBufferPos( const p : TDisplayCoord) : TBufferCoord
19851: Function LineToRow( aLine : integer) : integer
19852: Function RowToLine( aRow : integer) : integer
19853: Function NextWordPos : TBufferCoord
19854: Function NextWordPosEx( const XY : TBufferCoord) : TBufferCoord
19855: Procedure PasteFromClipboard
19856: Function WordStart : TBufferCoord
19857: Function WordStartEx( const XY : TBufferCoord) : TBufferCoord
19858: Function WordEnd : TBufferCoord
19859: Function WordEndEx( const XY : TBufferCoord) : TBufferCoord
19860: Function PrevWordPos : TBufferCoord
19861: Function PrevWordPosEx( const XY : TBufferCoord) : TBufferCoord
19862: Function PixelsToRowColumn( aX, aY : integer) : TDisplayCoord
19863: Function PixelsToNearestRowColumn( aX, aY : integer) : TDisplayCoord
19864: Procedure Redo
19865: Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer);
19866: Function RowColumnToPixels( const RowCol : TDisplayCoord) : TPoint
19867: Function RowColToCharIndex( RowCol : TBufferCoord) : integer
19868: Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions): integer
19869: Procedure SelectAll
19870: Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer)
19871: Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord)
19872: Procedure SetDefaultKeystrokes
19873: Procedure SetSelWord
19874: Procedure SetWordBlock( Value : TBufferCoord)
19875: Procedure Undo
19876: Procedure UnlockUndo
19877: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent)
19878: Procedure AddKeyUpHandler( aHandler : TKeyEvent)
19879: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent)
19880: Procedure AddKeyDownHandler( aHandler : TKeyEvent)
19881: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent)
19882: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent)
19883: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent)
19884: Procedure AddFocusControl( aControl : TWInControl)
19885: Procedure RemoveFocusControl( aControl : TWInControl)
19886: Procedure AddMouseDownHandler( aHandler : TMouseEvent)
19887: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent)
19888: Procedure AddMouseUpHandler( aHandler : TMouseEvent)
19889: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent)
19890: Procedure AddMouseCursorHandler( aHandler : TMouseCursorEvent)
19891: Procedure RemoveMouseCursorHandler( aHandler : TMouseCursorEvent)
19892: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit)
19893: Procedure RemoveLinesPointer
19894: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList)
19895: Procedure UnHookTextBuffer
19896: BlockBegin', 'TBufferCoord', iptrw);
19897: BlockEnd', 'TBufferCoord', iptrw);
19898: CanPaste', 'Boolean', iptr);
19899: CanRedo', 'boolean', iptr);
19900: CanUndo', 'boolean', iptr);
19901: CaretX', 'Integer', iptrw);
19902: CaretY', 'Integer', iptrw);
19903: CaretXY', 'TBufferCoord', iptrw);
19904: ActiveLineColor', 'TColor', iptrw);
19905: DisplayX', 'Integer', iptr);
19906: DisplayY', 'Integer', iptr);
19907: DisplayXY', 'TDisplayCoord', iptr);
19908: DisplayLineCount', 'integer', iptr);
19909: CharsInWindow', 'Integer', iptr);
19910: CharWidth', 'integer', iptr);
19911: Font', 'TFont', iptrw);
19912: GutterWidth', 'Integer', iptr);
19913: Highlighter', 'TSynCustomHighlighter', iptrw);
19914: LeftChar', 'Integer', iptrw);
19915: LineHeight', 'integer', iptr);
19916: LinesInWindow', 'Integer', iptr);
19917: LineText', 'string', iptrw);
19918: Lines', 'TStrings', iptrw);
19919: Marks', 'TSynEditMarkList', iptr);
19920: MaxScrollWidth', 'integer', iptrw);
19921: Modified', 'Boolean', iptrw);
19922: PaintLock', 'Integer', iptr);
19923: ReadOnly', 'Boolean', iptrw);
19924: SearchEngine', 'TSynEditSearchCustom', iptrw);
19925: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
19926: SelTabBlock', 'Boolean', iptr);
19927: SelTabLine', 'Boolean', iptr);
19928: SelText', 'string', iptrw);
19929: StateFlags', 'TSynStateFlags', iptr);
19930: Text', 'string', iptrw);
19931: TopLine', 'Integer', iptrw);
19932: WordAtCursor', 'string', iptr);

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19933: WordAtMouse', 'string', iptr);
19934: UndoList', 'TSynEditUndoList', iptr);
19935: RedoList', 'TSynEditUndoList', iptr);
19936: OnProcessCommandEvent', 'TProcessCommandEvent', iptrw);
19937: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
19938: BorderStyle', 'TSynBorderStyle', iptrw);
19939: ExtraLineSpacing', 'integer', iptrw);
19940: Gutter', 'TSynGutter', iptrw);
19941: HideSelection', 'boolean', iptrw);
19942: InsertCaret', 'TSynEditCaretType', iptrw);
19943: InsertMode', 'boolean', iptrw);
19944: IsScrolling', 'Boolean', iptr);
19945: Keystrokes', 'TSynEditKeyStrokes', iptrw);
19946: MaxUndo', 'Integer', iptrw);
19947: Options', 'TSynEditorOptions', iptrw);
19948: OverwriteCaret', 'TSynEditCaretType', iptrw);
19949: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
19950: ScrollHintColor', 'TColor', iptrw);
19951: ScrollHintFormat', 'TScrollHintFormat', iptrw);
19952: ScrollBars', 'TScrollStyle', iptrw);
19953: SelectedColor', 'TSynSelectedColor', iptrw);
19954: SelectionMode', 'TSynSelectionMode', iptrw);
19955: ActiveSelectionMode', 'TSynSelectionMode', iptrw);
19956: TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
19957: WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
19958: WordWrapGlyph', 'TSynGlyph', iptrw);
19959: OnChange', 'TNotifyEvent', iptrw);
19960: OnClearBookmark', 'TPlaceMarkEvent', iptrw);
19961: OnCommandProcessed', 'TProcessCommandEvent', iptrw);
19962: OnContextHelp', 'TContextHelpEvent', iptrw);
19963: OnDropFiles', 'TDropFilesEvent', iptrw);
19964: OnGutterClick', 'TGutterClickEvent', iptrw);
19965: OnGutterGetText', 'TGutterGetTextEvent', iptrw);
19966: OnGutterPaint', 'TGutterPaintEvent', iptrw);
19967: OnMouseCursor', 'TMouseCursorEvent', iptrw);
19968: OnPaint', 'TPaintEvent', iptrw);
19969: OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
19970: OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
19971: OnReplaceText', 'TReplaceTextEvent', iptrw);
19972: OnSpeciallineColors', 'TSpecialLineColorsEvent', iptrw);
19973: OnStatusChange', 'TStatusChangeEvent', iptrw);
19974: OnPaintTransient', 'TPaintTransient', iptrw);
19975: OnScroll', 'TScrollEvent', iptrw);
19976: end;
19977: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
19978: Function GetPlaceableHighlighters : TSynHighlighterList
19979: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
19980: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
19981: Procedure GetEditorCommandValues( Proc : TGetStrProc)
19982: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
19983: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
19984: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
19985: Function ConvertCodeStringToExtended( AString : String) : String
19986: Function ConvertExtendedToCodeString( AString : String) : String
19987: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
19988: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
19989: Function IndexToEditorCommand( const AIndex : Integer) : Integer
19990:
19991: TSynEditorOption = (
19992:   eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
19993:   eoAutoIndent,                 //Will indent caret on newlines with same amount of leading whitespace as
19994:                           //preceding line
19995:   eoAutoSizeMaxScrollWidth,     //Automatically resizes the MaxScrollWidth property when inserting text
19996:   eoDisableScrollArrows,       //Disables the scroll bar arrow buttons when you can't scroll in that
19997:                           //direction any more
19998:   eoDragDropEditing,          //Allows to select a block of text and drag it within document to another
19999:                           //location
20000:   eoDropFiles,                //Allows the editor accept OLE file drops
20001:   eoEnhanceHomeKey,          //enhances home key positioning, similar to visual studio
20002:   eoEnhanceEndKey,           //enhances End key positioning, similar to JDeveloper
20003:   eoGroupUndo,                //When undoing/redoing actions, handle all continous changes the same kind
20004:                           //in one call
20005:                           //instead undoing/redoing each command separately
20006:   eoHalfPageScroll,          //When scrolling with page-up and page-down commands, only scroll a half
20007:                           //page at a time
20008:   eoHideShowScrollbars,       //if enabled, then scrollbars will only show if necessary.
20009:   If you have ScrollPasteEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
20010:   eoKeepCaretX,              //When moving through lines w/o cursor Past EOL, keeps X position of cursor
20011:   eoNoCaret,                  //Makes it so the caret is never visible
20012:   eoNoSelection,              //Disables selecting text
20013:   eoRightMouseMovesCursor,    //When clicking with right mouse for popup menu, moves cursor to location
20014:   eoScrollByOneLess,          //Forces scrolling to be one less
20015:   eoScrollHintFollows,        //The scroll hint follows the mouse when scrolling vertically
20016:   eoScrollPastEof,           //Allows the cursor to go past the end of file marker
20017:   eoScrollPastEol,           //Allows cursor to go past last character into white space at end of a line
20018:   eoShowScrollHint,           //Shows a hint of the visible line numbers when scrolling vertically
20019:   eoShowSpecialChars,         //Shows the special Characters
20020:   eoSmartTabDelete,          //similar to Smart Tabs, but when you delete characters
20021:   eoSmartTabs,                //When tabbing, cursor will go to non-white space character of previous line

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20022: eoSpecialLineDefaultFg,      //disables the foreground text color override using OnSpecialLineColor event
20023: eoTabIndent,              //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
20024: eoTabsToSpaces,           //Converts a tab character to a specified number of space characters
20025: eoTrimTrailingSpaces    //Spaces at the end of lines will be trimmed and not saved
20026:
20027: *****Important Editor Short Cuts*****
20028: Double click to select a word and count words with highlighting.
20029: Triple click to select a line.
20030: CTRL+SHIFT+click to extend a selection.
20031: Drag with the ALT key down to select columns of text !!!
20032: Drag and drop is supported.
20033: Type CTRL+Z to undo and SHIFT+CTRL+Z to redo.
20034: Type CTRL+A to select all.
20035: Type CTRL+N to set a new line.
20036: Type CTRL+T to delete a line or token. //Tokenizer
20037: Type CTRL+C to copy to clipboard. Type CTRL+V to paste from clipboard.
20038: Type CTRL+Shift+T to add ToDo in line and list.
20039: Type CTRL+Shift+[0..9] to set bookmarks. //Bookmark
20040: Type CTRL[0..9] to jump or get to bookmarks.
20041: Type Home to position cursor at beginning of current line and End to position it at end of line.
20042: Type CTRL+Home to position cursor at start of doc and CTRL+End to position it at end of document.
20043: Page Up and Page Down work as expected.
20044: CTRL+Page Up sends cursor to top of viewed portion and CTRL+Page Down sends it to bottom.
20045: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
20046:
20047: {$ Short Key Positions Ctrl<A-Z>: }
20048: def
20049:   <A> Select All
20050:   <B> Count Words
20051:   <C> Copy
20052:   <D> Internet Start
20053:   <E> Script List
20054:   <F> Find
20055:   <G> Goto
20056:   <H> Mark Line
20057:   <I> Interface List
20058:   <J> Code Completion
20059:   <K> Console
20060:   <L> Interface List Box
20061:   <M> Font Larger -
20062:   <N> New Line
20063:   <O> Open File
20064:   <P> Font Smaller +
20065:   <Q> Quit
20066:   <R> Replace
20067:   <S> Save!
20068:   <T> Delete Line
20069:   <U> Use Case Editor
20070:   <V> Paste
20071:   <W> URI Links
20072:   <X> Reserved for coding use internal
20073:   <Y> Delete Line
20074:   <Z> Undo
20075:
20076: ref
20077:   F1 Help
20078:   F2 Syntax Check
20079:   F3 Search Next
20080:   F4 New Instance
20081:   F5 Line Mark /Breakpoint
20082:   F6 Goto End
20083:   F7 Debug Step Into
20084:   F8 Debug Step Out
20085:   F9 Compile
20086:   F10 Menu
20087:   F11 Word Count Highlight
20088:   F12 Reserved for coding use internal
20089:
20090: def ReservedWords: array[0..82] of string =
20091: ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
20092: 'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',
20093: 'ownto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
20094: 'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
20095: 'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
20096: 'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
20097: 'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
20098: 'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
20099: 'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
20100: 'uses', 'var', 'while', 'with', 'write', 'xor', 'private', 'protected',
20101: 'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
20102: AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ',', ',');
20103: t,t1,t2,t3: boolean;
20104: //-----
20105: //*****End of mX4 Public Tools API *****
20106: //-----
20107:
20108: Amount of Functions: 12787
20109: Amount of Procedures: 7905
20110: Amount of Constructors: 1281

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20111: Totals of Calls: 21973
20112: SHA1: Win 3.9.9.98 EF3D49A159B008E5FAD63527ED907EC10790DA0C
20113:
20114:
20115: ****
20116: Doc Short Manual with 50 Tips!
20117: ****
20118: - Install: just save your maxboxdef.ini before and then extract the zip file!
20119: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
20120: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
20121: - Menu: With <Ctrl><F3> you can search for code on examples
20122: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
20123: - Menu: Set Interface Naviagator in menu /View/Intf Navigator
20124: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
20125:
20126: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
20127: - Inifile: Refresh (reload) the inifile after edit with ..//Help/Config Update
20128: - Context Menu: You can printout your scripts as a pdf-file or html-export
20129: - Context: You do have a context menu with the right mouse click
20130:
20131: - Menu: With the UseCase Editor you can convert graphic formats too.
20132: - Menu: On menu Options you find Addons as compiled scripts
20133: - IDE: You don't need a mouse to handle maxbox, use shortcuts
20134: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
20135: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
20136: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or iinterface
20137:     or ttimer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
20138:
20139: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
20140: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
20141: - Code: If you code a loop till key-pressed use function: isKeyPressed;
20142: - Code: Macro set the macros #name, #paAdministrator, #file,startmaxbox_extract_funcList399.txt
20143: - Code: change Syntax in autboot macro 'maxbootscript.txt'
20144: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
20145:     to delete and Click and mark to drag a bookmark
20146: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
20147: - IDE: A file info with system and script information you find in menu Program/Information
20148: - IDE: After change the config file in help you can update changes in menu Help/Config Update
20149: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
20150: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
20151: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
20152: - Editor: Set Bookmarks to check your work in app or code
20153: - Editor: With <Ctrl H> you set {SActive Line Color} and F11 you get Word Count Statistic on Output too
20154: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..//Help/ToDo List
20155: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
20156:
20157: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
20158: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
20159: - Menu: Set Interface Naviagator also with toggle <Ctrl L> or /View/Intf Navigator
20160: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
20161: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
20162: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
20163: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
20164: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
20165:
20166: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
20167: - Add on when no browser is available start /Options/Add ons/Easy Browser
20168: - Add on SOAP Tester with SOP POST File
20169: - Add on IP Protocol Sniffer with List View
20170: - Add on OpenGL mX Robot Demo for android
20171:
20172: - Menu: Help/Tools as a Tool Section with DOS Opener
20173: - Menu Editor: export the code as RTF File
20174: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
20175: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
20176: - Context: Auto Detect of Syntax depending on file extension
20177: - Code: some Windows API function start with w in the name like wGetAtomName();
20178: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
20179: - IDE File Check with menu ..View/File Changes/...
20180: - Context: Create a Header with Create Header in Navigator List at right window
20181: - Code: use SysErrorMessage to get a real Error Description, Ex.
20182:     RemoveDir('c:\NoSuchFolder');
20183:     writeln('System Error Message: ' + SysErrorMessage(GetLastError));
20184: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
20185:
20186: - using DLL example in maxbox: //function: ****
20187:     Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
20188:                                     cb: DWORD): BOOL; //stdcall;;
20189:     External 'GetProcessMemoryInfo@psapi.dll stdcall';
20190:     Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
20191:     External 'OpenProcess@kernel32.dll stdcall';
20192:
20193: PCT Precompile Technology , mX4 ScriptStudio
20194: Indy, JCL, Jedi, VCL, Systools, TurboPower, Fundamentals, ExtendedRTL, Synedit
20195: DMath, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
20196: emax layers: system-package-component-unit-class-function-block
20197: new keywords def ref using maxCalcF
20198: UML: use case act class state seq pac comp dep - lib lab
20199: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools

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20200: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
20201: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
20202: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
20203: 1 DLL Report, 24 Units add, DRTable, Remote+, Cindy functions!
20204: DLL Report, UML Tutor, 32 Units add, DRTable, Remote+, Cindy functions!
20205: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
20206: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, ParaDice 3D Cube Polygraph, OCR
20207: GetScript or GetWebScript, GPS Example, Profiler, Checkers, Toolbox commons
20208:
20209: https://unibe-ch.academia.edu/MaxKleiner
20210: www.slideshare.net/maxkleiner1
20211: http://www.scribd.com/max_kleiner
20212: http://www.delphiforfun.org/Programs/Utilities/index.htm
20213: http://www.slideshare.net/maxkleiner1
20214: http://s3.amazonaws.com/PreviewLinks/22959.html
20215: http://www.softwareschule.ch/arduino_training.pdf
20216:
20217:
20218: ****
20219: unit List asm internal end
20220: ****
20221: 01 unit RIRegister_Utils_Routines(exec); //Delphi
20222: 02 unit SIRegister_IdStrings; //Indy Sockets
20223: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
20224: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
20225: 05 unit IFSI_WinFormlpuzzle; //maXbox
20226: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImagefileLibBCB
20227: 07 unit RegisterDateLibrary_R(exec); //Delphi
20228: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
20229: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
20230: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
20231: 11 unit uPSI_IdTCPConnection; //Indy some functions
20232: 12 unit uPSCompiler.pas; //PS kernel functions
20233: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
20234: 14 unit uPSI_Printers.pas; //Delphi VCL
20235: 15 unit uPSI_MPlayer.pas; //Delphi VCL
20236: 16 unit uPSC_comobj; //COM Functions
20237: 17 unit uPSI_Clipbrd; //Delphi VCL
20238: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
20239: 19 unit uPSI_SqlExpr; //DBX3
20240: 20 unit uPSI_ADOdb; //ADOdb
20241: 21 unit uPSI_StrHlpr; //String Helper Routines
20242: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
20243: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
20244: 24 unit JvUtils / gsUtils; //Jedi / Metabase
20245: 25 unit JvFunctions_max; //Jedi Functions
20246: 26 unit HTTPParser; //Delphi VCL
20247: 27 unit HTTPUtil; //Delphi VCL
20248: 28 unit uPSI_XMLUtil; //Delphi VCL
20249: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
20250: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
20251: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
20252: 32 unit uPSI_MyBigInt; //big integer class with Math
20253: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
20254: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
20255: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
20256: 36 unit uPSI_IdHashMessageDigest; //Indy Crypto;
20257: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
20258: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
20259: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
20260: 40 unit uPSI_IdHashMessageDigest_max; //Indy Crypto &OpenSSL;
20261: 41 unit uPSI_FileCtrl; //Delphi RTL
20262: 42 unit uPSI_Outline; //Delphi VCL
20263: 43 unit uPSI_ScktComp; //Delphi RTL
20264: 44 unit uPSI_Calendar; //Delphi VCL
20265: 45 unit uPSI_VListView; //VListView;
20266: 46 unit uPSI_DBGrids; //Delphi VCL
20267: 47 unit uPSI_DBCtrls; //Delphi VCL
20268: 48 unit ide_debugoutput; //maXbox
20269: 49 unit uPSI_ComCtrls; //Delphi VCL
20270: 50 unit uPSC_stdctrls+; //Delphi VCL
20271: 51 unit uPSI_Dialogs; //Delphi VCL
20272: 52 unit uPSI_StdConvs; //Delphi RTL
20273: 53 unit uPSI_DBClient; //Delphi RTL
20274: 54 unit uPSI_DBPlatform; //Delphi RTL
20275: 55 unit uPSI_Provider; //Delphi RTL
20276: 56 unit uPSI_FMTBcd; //Delphi RTL
20277: 57 unit uPSI_DBGrids; //Delphi VCL
20278: 58 unit uPSI_CDSTUtil; //MIDAS
20279: 59 unit uPSI_VarHlpr; //Delphi RTL
20280: 60 unit uPSI_ExtDlg; //Delphi VCL
20281: 61 unit sdpStopwatch; //maXbox
20282: 62 unit uPSI_JclStatistics; //JCL
20283: 63 unit uPSI_JclLogic; //JCL
20284: 64 unit uPSI_JclMiscel; //JCL
20285: 65 unit uPSI_JclMath_max; //JCL RTL
20286: 66 unit uPSI_UTPLb_StreamUtils; //LockBox 3
20287: 67 unit uPSI_MathUtils; //BCB
20288: 68 unit uPSI_JclMultimedia; //JCL

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20289: 69 unit uPSI_WideStrUtils;                                //Delphi API/RTL
20290: 70 unit uPSI_GraphUtil;                                 //Delphi RTL
20291: 71 unit uPSI_TypeTrans;                                //Delphi RTL
20292: 72 unit uPSI_HTTPApp;                                 //Delphi VCL
20293: 73 unit uPSI_DBWeb;                                  //Delphi VCL
20294: 74 unit uPSI_DBBdeWeb;                               //Delphi VCL
20295: 75 unit uPSI_DBXpressWeb;                            //Delphi VCL
20296: 76 unit uPSI_ShadowWnd;                             //Delphi VCL
20297: 77 unit uPSI_ToolWin;                               //Delphi VCL
20298: 78 unit uPSI_Tabs;                                  //Delphi VCL
20299: 79 unit uPSI_JclGraphUtils;                          //JCL
20300: 80 unit uPSI_JclCounter;                            //JCL
20301: 81 unit uPSI_JclSysInfo;                           //JCL
20302: 82 unit uPSI_JclSecurity;                          //JCL
20303: 83 unit uPSI_JclFileUtils;                          //Indy
20304: 84 unit uPSI_IdUserAccounts;                        //Indy
20305: 85 unit uPSI_IdAuthentication;                      //Indy
20306: 86 unit uPSI_uTPLb_AES;                            //LockBox 3
20307: 87 unit uPSI_IdHashSHA1;                           //LockBox 3
20308: 88 unit uTPB_BlockCipher;                          //LockBox 3
20309: 89 unit uPSI_ValEdit.pas;                           //Delphi VCL
20310: 90 unit uPSI_JvVCLUtils;                           //JCL
20311: 91 unit uPSI_JvDBUtil;                            //JCL
20312: 92 unit uPSI_JvDBUtil;                            //JCL
20313: 93 unit uPSI_JvAppUtils;                           //JCL
20314: 94 unit uPSI_JvCtrlUtils;                          //JCL
20315: 95 unit uPSI_JvFormToHtml;                         //JCL
20316: 96 unit uPSI_JvParsing;                           //JCL
20317: 97 unit uPSI_SerDlg;                             //Toolbox
20318: 98 unit uPSI_Serial;                            //Toolbox
20319: 99 unit uPSI_JvComponent;                         //JCL
20320: 100 unit uPSI_JvCalc;                            //JCL
20321: 101 unit uPSI_JvBdeutils;                         //JCL
20322: 102 unit uPSI_JvDateUtil;                          //JCL
20323: 103 unit uPSI_JvGenetic;                          //JCL
20324: 104 unit uPSI_JclBase;                            //JCL
20325: 105 unit uPSI_JvUtils;                            //JCL
20326: 106 unit uPSI_JvStringUtil;                        //JCL
20327: 107 unit uPSI_JvStringUtil;                        //JCL
20328: 108 unit uPSI_JvStringUtil;                        //JCL
20329: 109 unit uPSI_JvMemoryInfos;                      //JCL
20330: 110 unit uPSI_JvComputerInfo;                     //JCL
20331: 111 unit uPSI_JvgCommClasses;                    //JCL
20332: 112 unit uPSI_JvgLogics;                          //JCL
20333: 113 unit uPSI_JvLED;                            //JCL
20334: 114 unit uPSI_JvTurtle;                           //JCL
20335: 115 unit uPSI_SortThds; unit uPSI_ThSort;        //maxBox
20336: 116 unit uPSI_JvgUtils;                           //JCL
20337: 117 unit uPSI_JvExprParser;                       //JCL
20338: 118 unit uPSI_HexDump;                           //Borland
20339: 119 unit uPSI_DBLogDlg;                          //VCL
20340: 120 unit uPSI_SqlTimSt;                           //RTL
20341: 121 unit uPSI_JvHtmlParser;                        //JCL
20342: 122 unit uPSI_JvgXMLSerializer;                  //JCL
20343: 123 unit uPSI_JvJCLUtils;                         //JCL
20344: 124 unit uPSI_JvStrings;                          //JCL
20345: 125 unit uPSI_uTPLb_IntegerUtils;                 //TurboPower
20346: 126 unit uPSI_uTPLb_HugeCardinal;                //TurboPower
20347: 127 unit uPSI_uTPLb_HugeCardinalUtils;           //TurboPower
20348: 128 unit uPSI_SynRegExpr;                         //SynEdit
20349: 129 unit uPSI_StUtils;                           //SysTools4
20350: 130 unit uPSI_StToHTML;                           //SysTools4
20351: 131 unit uPSI_StStrms;                           //SysTools4
20352: 132 unit uPSI_StFIN;                            //SysTools4
20353: 133 unit uPSI_StAstroP;                          //SysTools4
20354: 134 unit uPSI_StStat;                           //SysTools4
20355: 135 unit uPSI_StNetCon;                          //SysTools4
20356: 136 unit uPSI_StDecMth;                          //SysTools4
20357: 137 unit uPSI_StOStr;                           //SysTools4
20358: 138 unit uPSI_StPtrns;                           //SysTools4
20359: 139 unit uPSI_StNetMsg;                          //SysTools4
20360: 140 unit uPSI_StMath;                           //SysTools4
20361: 141 unit uPSI_StExpEng;                          //SysTools4
20362: 142 unit uPSI_StCRC;                            //SysTools4
20363: 143 unit uPSI_StExport;                           //SysTools4
20364: 144 unit uPSI_StExpLog;                          //SysTools4
20365: 145 unit uPSI_ActnList;                          //Delphi VCL
20366: 146 unit uPSI_jpeg;                            //Borland
20367: 147 unit uPSI_StRandom;                          //SysTools4
20368: 148 unit uPSI_StDict;                           //SysTools4
20369: 149 unit uPSI_StBCD;                            //SysTools4
20370: 150 unit uPSI_StTxtDat;                          //SysTools4
20371: 151 unit uPSI_StRegEx;                           //SysTools4
20372: 152 unit uPSI_IMouse;                           //VCL
20373: 153 unit uPSI_SyncObjs;                          //Hausladen
20374: 154 unit uPSI_AsyncCalls;                        //Saraiva
20375: 155 unit uPSI_ParallelJobs;                      //VCL
20376: 156 unit uPSI_Variants;                          //VCL
20377: 157 unit uPSI_VarCmplx;                          //VCL Wolfram

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20378: 158 unit uPSI_DTDSchema; //VCL
20379: 159 unit uPSI_ShLwApi; //Brakel
20380: 160 unit uPSI_IBUtils; //VCL
20381: 161 unit uPSI_CheckLst; //VCL
20382: 162 unit uPSI_JvSimpleXml; //JCL
20383: 163 unit uPSI_JclSimpleXml; //JCL
20384: 164 unit uPSI_JvXmlDatabase; //JCL
20385: 165 unit uPSI_JvMaxPixel; //JCL
20386: 166 unit uPSI_JvItemsSearchs; //JCL
20387: 167 unit uPSI_StExpEng2; //SysTools4
20388: 168 unit uPSI_StGenLog; //SysTools4
20389: 169 unit uPSI_JvLogFile; //Jcl
20390: 170 unit uPSI_CPort; //ComPort Lib v4.11
20391: 171 unit uPSI_CPortCtl; //ComPort
20392: 172 unit uPSI_CPortEsc; //ComPort
20393: 173 unit BarCodeScanner; //ComPort
20394: 174 unit uPSI_JvGraph; //JCL
20395: 175 unit uPSI_JvComCtrls; //JCL
20396: 176 unit uPSI_GUITesting; //D Unit
20397: 177 unit uPSI_JvFindFiles; //JCL
20398: 178 unit uPSI_StSystem; //SysTools4
20399: 179 unit uPSI_JvKeyboardStates; //JCL
20400: 180 unit uPSI_JvMail; //JCL
20401: 181 unit uPSI_JclConsole; //JCL
20402: 182 unit uPSI_IdCustomHTTPServer; //Indy
20403: 183 unit uPSI_IdCustomHTTPServer; //Indy
20404: 184 unit IdHTTPServer; //Indy
20405: 185 unit uPSI_IdTCPServer; //Indy
20406: 186 unit uPSI_IdSocketHandle; //Indy
20407: 187 unit uPSI_IdIOHandlerSocket; //Indy
20408: 188 unit IdIOHandler; //Indy
20409: 189 unit uPSI_cutils; //Bloodshed
20410: 190 unit uPSI-BoldUtils; //boldsoft
20411: 191 unit uPSI_IdSimpleServer; //Indy
20412: 192 unit uPSI_IdSSLOpenSSL; //Indy
20413: 193 unit uPSI_IdMultipartFormData; //Indy
20414: 194 unit uPSI_SynURIOpener; //SynEdit
20415: 195 unit uPSI_PerlRegEx; //PCRE
20416: 196 unit uPSI_IdHeaderList; //Indy
20417: 197 unit uPSI_StFirst; //SysTools4
20418: 198 unit uPSI_JvCtrls; //JCL
20419: 199 unit uPSI_IdTrivialFTPBase; //Indy
20420: 200 unit uPSI_IdTrivialFTP; //Indy
20421: 201 unit uPSI_IdUDPBase; //Indy
20422: 202 unit uPSI_IdUDPClient; //Indy
20423: 203 unit uPSI_utypes; //for DMath.DLL
20424: 204 unit uPSI_ShellAPI; //Borland
20425: 205 unit uPSI_IdRemoteCMDClient; //Indy
20426: 206 unit uPSI_IdRemoteCMDServer; //Indy
20427: 207 unit IdRexecServer; //Indy
20428: 208 unit IdRexec; (unit uPSI_IdRexec;) //Indy
20429: 209 unit IdUDPServer; //Indy
20430: 210 unit IdTimeUDPServer; //Indy
20431: 211 unit IdTimeServer; //Indy
20432: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;) //Indy
20433: 213 unit uPSI_IdIPWatch; //Indy
20434: 214 unit uPSI_IdIrcServer; //Indy
20435: 215 unit uPSI_IdMessageCollection; //Indy
20436: 216 unit uPSI_cPEM; //Fundamentals 4
20437: 217 unit uPSI_cFundamentUtils; //Fundamentals 4
20438: 218 unit uPSI_uwinplot; //DMath
20439: 219 unit uPSI_xrtl_util_CPUUtils; //ExtentedRTL
20440: 220 unit uPSI_GR32_System; //Graphics32
20441: 221 unit uPSI_cFileUtils; //Fundamentals 4
20442: 222 unit uPSI_cDateTime; (timemachine) //Fundamentals 4
20443: 223 unit uPSI_cTimers; (high precision timer) //Fundamentals 4
20444: 224 unit uPSI_cRandom; //Fundamentals 4
20445: 225 unit uPSI_ueval; //DMath
20446: 226 unit uPSI_xrtl_net_URIUtils; //ExtendedRTL
20447: 227 unit xrtl_net_URIUtils; //ExtendedRTL
20448: 228 unit uPSI_ufft; (FFT) //DMath
20449: 229 unit uPSI_DBXChannel; //Delphi
20450: 230 unit uPSI_DBXIndyChannel; //Delphi Indy
20451: 231 unit uPSI_xrtl_util_COMCat; //ExtendedRTL
20452: 232 unit uPSI_xrtl_util_StrUtils; //ExtendedRTL
20453: 233 unit uPSI_xrtl_util_VariantUtils; //ExtendedRTL
20454: 234 unit uPSI_xrtl_util_FileUtils; //ExtendedRTL
20455: 235 unit xrtl_util_Compat; //ExtendedRTL
20456: 236 unit uPSI_OleAuto; //Borland
20457: 237 unit uPSI_xrtl_util_COMUtils; //ExtendedRTL
20458: 238 unit uPSI_CmAdmCtl; //Borland
20459: 239 unit uPSI_ValEdit2; //VCL
20460: 240 unit uPSI_GR32; //Graphics32
20461: 241 unit uPSI_GR32_Image; //Graphics32
20462: 242 unit uPSI_xrtl_util_TimeUtils; //ExtendedRTL
20463: 243 unit uPSI_xrtl_util_TimeZone; //ExtendedRTL
20464: 244 unit uPSI_xrtl_util_TimeStamp; //ExtendedRTL
20465: 245 unit uPSI_xrtl_util_Map; //ExtendedRTL
20466: 246 unit uPSI_xrtl_util_Set; //ExtendedRTL

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20467: 247 unit uPSI_CPortMonitor;                                //ComPort
20468: 248 unit uPSI_StIniStm;                                 //SysTools4
20469: 249 unit uPSI_GR32_ExtImage;                            //Graphics32
20470: 250 unit uPSI_GR32_OrdinalMaps;                          //Graphics32
20471: 251 unit uPSI_GR32_Rasterizers;                           //Graphics32
20472: 252 unit uPSI_xrtl_util_Exception;                        //ExtendedRTL
20473: 253 unit uPSI_xrtl_util_Value;                            //ExtendedRTL
20474: 254 unit uPSI_xrtl_util_Compare;                          //ExtendedRTL
20475: 255 unit uPSI_FlatSB;                                   //VCL
20476: 256 unit uPSI_JvAnalogClock;                            //JCL
20477: 257 unit uPSI_JvAlarms;                                 //JCL
20478: 258 unit uPSI_JvSQLS;                                  //JCL
20479: 259 unit uPSI_JvDBSecur;                               //JCL
20480: 260 unit uPSI_JvDBQBE;                                 //JCL
20481: 261 unit uPSI_JvStarfield;                             //JCL
20482: 262 unit uPSI_JvCLMiscal;                            //JCL
20483: 263 unit uPSI_JvProfiler32;                           //JCL
20484: 264 unit uPSI_JvDirectories;                           //JCL
20485: 265 unit uPSI_JclSchedule;                            //JCL
20486: 266 unit uPSI_JclSvcCtrl;                            //JCL
20487: 267 unit uPSI_JvSoundControl;                         //JCL
20488: 268 unit uPSI_JvBDESQLScript;                         //JCL
20489: 269 unit uPSI_JvgDigits;                             //JCL>
20490: 270 unit uPSI_ImgList;                                //TCustomImageList
20491: 271 unit uPSI_JclMIDI;                                //JCL>
20492: 272 unit uPSI_JclWinMidi;                            //JCL>
20493: 273 unit uPSI_JclNTFS;                                //JCL>
20494: 274 unit uPSI_JclAppInst;                            //JCL>
20495: 275 unit uPSI_JvRle;                                 //JCL>
20496: 276 unit uPSI_JvRas32;                                //JCL>
20497: 277 unit uPSI_JvImageDrawThread;                      //JCL>
20498: 278 unit uPSI_JvImageWindow;                           //JCL>
20499: 279 unit uPSI_JvTransparentForm;                      //JCL>
20500: 280 unit uPSI_JvWinDialogs;                           //JCL>
20501: 281 unit uPSI_JvSimLogic;                            //JCL>
20502: 282 unit uPSI_JvSimIndicator;                         //JCL>
20503: 283 unit uPSI_JvSimPID;                                //JCL>
20504: 284 unit uPSI_JvSimPIDLinker;                         //JCL>
20505: 285 unit uPSI_IdRFCReply;                            //Indy
20506: 286 unit uPSI_IdIdent;                                //Indy
20507: 287 unit uPSI_IdIdentServer;                          //Indy
20508: 288 unit uPSI_JvPatchFile;                            //JCL
20509: 289 unit uPSI_StNetPfm;                                //SysTools4
20510: 290 unit uPSI_StNet;                                 //SysTools4
20511: 291 unit uPSI_JclPeImage;                            //JCL
20512: 292 unit uPSI_JclPrint;                                //JCL
20513: 293 unit uPSI_JclMime;                                //JCL
20514: 294 unit uPSI_JvRichEdit;                            //JCL
20515: 295 unit uPSI_JvDBRichEd;                            //JCL
20516: 296 unit uPSI_JvDice;                                //JCL
20517: 297 unit uPSI_JvFloatEdit;                            //JCL 3.9.8
20518: 298 unit uPSI_JvDirFrm;                                //JCL
20519: 299 unit uPSI_JvDualList;                            //JCL
20520: 300 unit uPSI_JvSwitch;                                //JCL
20521: 301 unit uPSI_JvTimerLst;                            //JCL
20522: 302 unit uPSI_JvMemTable;                            //JCL
20523: 303 unit uPSI_JvObjStr;                                //JCL
20524: 304 unit uPSI_StLArr;                                //SysTools4
20525: 305 unit uPSI_StWmDCpy;                            //SysTools4
20526: 306 unit uPSI_StText;                                //SysTools4
20527: 307 unit uPSI_StNTLog;                            //SysTools4
20528: 308 unit uPSI_xrtl_math_Integer;                      //ExtendedRTL
20529: 309 unit uPSI_JvImagPrvw;                            //JCL
20530: 310 unit uPSI_JvFormPatch;                           //JCL
20531: 311 unit uPSI_JvPicClip;                            //JCL
20532: 312 unit uPSI_JvDataConv;                            //JCL
20533: 313 unit uPSI_JvCpuUsage;                           //JCL
20534: 314 unit uPSI_JclUnitConv_mx2;                        //JCL
20535: 315 unit JvDualListForm;                            //JCL
20536: 316 unit uPSI_JvCpuUsage2;                           //JCL
20537: 317 unit uPSI_JvParserForm;                          //JCL
20538: 318 unit uPSI_JvJanTreeView;                          //JCL
20539: 319 unit uPSI_JvTransLED;                            //JCL
20540: 320 unit uPSI_JvPlaylist;                            //JCL
20541: 321 unit uPSI_JvFormAutoSize;                         //JCL
20542: 322 unit uPSI_JvYearGridEditForm;                      //JCL
20543: 323 unit uPSI_JvMarkupCommon;                         //JCL
20544: 324 unit uPSI_JvChart;                                //JCL
20545: 325 unit uPSI_JvXPCore;                            //JCL
20546: 326 unit uPSI_JvXPCoreUtils;                          //JCL
20547: 327 unit uPSI_StatsClasses;                           //mx4
20548: 328 unit uPSI_ExtCtrls2;                            //VCL
20549: 329 unit uPSI_JvUrlGrabbers;                          //JCL
20550: 330 unit uPSI_JvXmlTree;                            //JCL
20551: 331 unit uPSI_JvWavePlayer;                           //JCL
20552: 332 unit uPSI_JvUnicodeCanvas;                         //JCL
20553: 333 unit uPSI_JvTFUtils;                            //JCL
20554: 334 unit uPSI_IdServerIOHandler;                      //Indy
20555: 335 unit uPSI_IdServerIOHandlerSocket;                //Indy

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20556: 336 unit uPSI_IdMessageCoder; //Indy
20557: 337 unit uPSI_IdMessageCoderMIME; //Indy
20558: 338 unit uPSI_IdMIMETypes; //Indy
20559: 339 unit uPSI_JvConverter; //JCL
20560: 340 unit uPSI_JvCsvParse; //JCL
20561: 341 unit uPSI_umat; unit uPSI_ugamma; //DMath
20562: 342 unit uPSI_ExcelExport; (Nat: TJsExcelExport) //JCL
20563: 343 unit uPSI_JvDBGridExport; //JCL
20564: 344 unit uPSI_JvgExport; //JCL
20565: 345 unit uPSI_JvSerialMaker; //JCL
20566: 346 unit uPSI_JvWin32; //JCL
20567: 347 unit uPSI_JvPaintFX; //JCL
20568: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
20569: 349 unit uPSI_JvValidators; (preview) //JCL
20570: 350 unit uPSI_JvNTEventLog; //JCL
20571: 351 unit uPSI_ShellZipTool; //mX4
20572: 352 unit uPSI_JvJoystick; //JCL
20573: 353 unit uPSI_JvMailSlots; //JCL
20574: 354 unit uPSI_JclComplex; //Synopse
20575: 355 unit uPSI_SynPdf; //VCL
20576: 356 unit uPSI_Registry; //VCL
20577: 357 unit uPSI_TlHelp32; //JCL
20578: 358 unit uPSI_JclRegistry; //JCL
20579: 359 unit uPSI_JvAirBrush; //JCL
20580: 360 unit uPSI_mORMotReport; //Synopse
20581: 361 unit uPSI_JclLocales; //JCL
20582: 362 unit uPSI_SynEdit; //SynEdit
20583: 363 unit uPSI_SynEditTypes; //SynEdit
20584: 364 unit uPSI_SynMacroRecorder; //SynEdit
20585: 365 unit uPSI_LongIntList; //SynEdit
20586: 366 unit uPSI_devutils; //DevC
20587: 367 unit uPSI_SynEditMiscClasses; //SynEdit
20588: 368 unit uPSI_SynEditRegexSearch; //SynEdit
20589: 369 unit uPSI_SynEditHighlighter; //SynEdit
20590: 370 unit uPSI_SynHighlighterPas; //SynEdit
20591: 371 unit uPSI_JvSearchFiles; //JCL
20592: 372 unit uPSI_SynHighlighterAny; //Lazarus
20593: 373 unit uPSI_SynEditKeyCmds; //SynEdit
20594: 374 unit uPSI_SynEditMiscProcs; //SynEdit
20595: 375 unit uPSI_SynEditKbdHandler; //SynEdit
20596: 376 unit uPSI_JvAppInst; //JCL
20597: 377 unit uPSI_JvAppEvent; //JCL
20598: 378 unit uPSI_JvAppCommand; //JCL
20599: 379 unit uPSI_JvAnimTitle; //JCL
20600: 380 unit uPSI_JvAnimatedImage; //JCL
20601: 381 unit uPSI_SynEditExport; //SynEdit
20602: 382 unit uPSI_SynExportHTML; //SynEdit
20603: 383 unit uPSI_SynExportRTF; //SynEdit
20604: 384 unit uPSI_SynEditSearch; //SynEdit
20605: 385 unit uPSI_fMain_back; //maxBox;
20606: 386 unit uPSI_JvZoom; //JCL
20607: 387 unit uPSI_PMrand; //PM
20608: 388 unit uPSI_JvSticker; //JCL
20609: 389 unit uPSI_XmlVerySimple; //mX4
20610: 390 unit uPSI_Services; //ExtPascal
20611: 391 unit uPSI_ExtpascalUtils; //ExtPascal
20612: 392 unit uPSI_SocketsDelphi; //ExtPascal
20613: 393 unit uPSI_StBarC; //SysTools
20614: 394 unit uPSI_StDbBarC; //SysTools
20615: 395 unit uPSI_StBarPN; //SysTools
20616: 396 unit uPSI_StDbPNBC; //SysTools
20617: 397 unit uPSI_StDb2DBC; //SysTools
20618: 398 unit uPSI_StMoney; //SysTools
20619: 399 unit uPSI_JvForth; //JCL
20620: 400 unit uPSI_RestRequest; //mX4
20621: 401 unit uPSI_HttpRESTConnectionIndy; //mX4
20622: 402 unit uPSI_JvXmlDatabase; //update //JCL
20623: 403 unit uPSI_StAstro; //SysTools
20624: 404 unit uPSI_StSort; //SysTools
20625: 405 unit uPSI_StDate; //SysTools
20626: 406 unit uPSI_StDateSt; //SysTools
20627: 407 unit uPSI_StBase; //SysTools
20628: 408 unit uPSI_StVInfo; //SysTools
20629: 409 unit uPSI_JvBrowseFolder; //JCL
20630: 410 unit uPSI_JvBoxProcs; //JCL
20631: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
20632: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
20633: 413 unit uPSI_JvHighlighter; //JCL
20634: 414 unit uPSI_Diff; //mX4
20635: 415 unit uPSI_SpringWinAPI; //DSpring
20636: 416 unit uPSI_StBits; //SysTools
20637: 417 unit uPSI_TomDBQue; //mX4
20638: 418 unit uPSI_MultilangTranslator; //mX4
20639: 419 unit uPSI_HyperLabel; //mX4
20640: 420 unit uPSI_Starter; //mX4
20641: 421 unit uPSI_FileAssoc; //devC
20642: 422 unit uPSI_devFileMonitorX; //devC
20643: 423 unit uPSI_devrun; //devC
20644: 424 unit uPSI_devExec; //devC

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20645: 425 unit uPSI_oyzUtils;                                //devC
20646: 426 unit uPSI_DosCommand;                             //devC
20647: 427 unit uPSI_CppTokenizer;                            //devC
20648: 428 unit uPSI_JvHLPParser;                            //devC
20649: 429 unit uPSI_JclMapI;                               //JCL
20650: 430 unit uPSI_JclShell;                              //JCL
20651: 431 unit uPSI_JclCOM;                               //JCL
20652: 432 unit uPSI_GR32_Math;                            //Graphics32
20653: 433 unit uPSI_GR32_LowLevel;                         //Graphics32
20654: 434 unit uPSI_SimpleHl;                            //mX4
20655: 435 unit uPSI_GR32_Filters;                          //Graphics32
20656: 436 unit uPSI_GR32_VectorMaps;                      //Graphics32
20657: 437 unit uPSI_cXMLFunctions;                        //Fundamentals 4
20658: 438 unit uPSI_JvTimer;                             //JCL
20659: 439 unit uPSI_cHTTPUtils;                           //Fundamentals 4
20660: 440 unit uPSI_cTLSUtils;                            //Fundamentals 4
20661: 441 unit uPSI_JclGraphics;                          //JCL
20662: 442 unit uPSI_JclSynch;                            //JCL
20663: 443 unit uPSI_IdTelnet;                            //Indy
20664: 444 unit uPSI_IdTelnetServer;                      //Indy
20665: 445 unit uPSI_IdEcho;                             //Indy
20666: 446 unit uPSI_IdEchoServer;                         //Indy
20667: 447 unit uPSI_IdEchoUDP;                           //Indy
20668: 448 unit uPSI_IdEchoUDPServer;                     //Indy
20669: 449 unit uPSI_IdSocks;                            //Indy
20670: 450 unit uPSI_IdAntiFreezeBase;                    //Indy
20671: 451 unit uPSI_IdHostnameServer;                     //Indy
20672: 452 unit uPSI_IdTunnelCommon;                      //Indy
20673: 453 unit uPSI_IdTunnelMaster;                       //Indy
20674: 454 unit uPSI_IdTunnelSlave;                        //Indy
20675: 455 unit uPSI_IdRSH;                             //Indy
20676: 456 unit uPSI_IdRSHServer;                          //Indy
20677: 457 unit uPSI_Spring_Cryptography_Utils;          //Spring4Delphi
20678: 458 unit uPSI_MapReader;                           //devC
20679: 459 unit uPSI_LibTar;                            //devC
20680: 460 unit uPSI_IdStack;                           //Indy
20681: 461 unit uPSI_IdBlockCipherIntercept;              //Indy
20682: 462 unit uPSI_IdChargenServer;                     //Indy
20683: 463 unit uPSI_IdFTPServer;                         //Indy
20684: 464 unit uPSI_IdException;                         //Indy
20685: 465 unit uPSI_utexplot;                           //DMath
20686: 466 unit uPSI_uwinstr;                            //DMath
20687: 467 unit uPSI_VarRecUtils;                         //devC
20688: 468 unit uPSI_JvStringListToHtml;                  //JCL
20689: 469 unit uPSI_JvStringHolder;                       //JCL
20690: 470 unit uPSI_IdCoder;                            //Indy
20691: 471 unit uPSI_SynHighlighterDfm;                  //Synedit
20692: 472 unit uHighlighterProcs; in 471                //Synedit
20693: 473 unit uPSI_LazFileUtils;                         //LCL
20694: 474 unit uPSI_IDECmdLine;                          //LCL
20695: 475 unit uPSI_lazMasks;                           //LCL
20696: 476 unit uPSI_ip_misc;                            //mX4
20697: 477 unit uPSI_Barcodes;                           //LCL
20698: 478 unit uPSI_SimpleXML;                          //LCL
20699: 479 unit uPSI_JclIniFiles;                         //JCL
20700: 480 unit uPSI_D2XXUnit; { $x- }                   //FTDI
20701: 481 unit uPSI_JclDateTime;                          //JCL
20702: 482 unit uPSI_JclEDI;                            //JCL
20703: 483 unit uPSI_JclMiscel2;                          //JCL
20704: 484 unit uPSI_JclValidation;                      //JCL
20705: 485 unit uPSI_JclAnsiStrings; {-PString}         //JCL
20706: 486 unit uPSI_SynEditMiscProcs2;                  //Synedit
20707: 487 unit uPSI_JclStreams;                          //JCL
20708: 488 unit uPSI_QRCode;                            //mX4
20709: 489 unit uPSI_BlockSocket;                         //ExtPascal
20710: 490 unit uPSI_Masks_Utils;                         //VCL
20711: 491 unit uPSI_synautil;                           //Synapse!
20712: 492 unit uPSI_JclMath_Class;                      //JCL RTL
20713: 493 unit ugamdist; //Gamma function             //DMath
20714: 494 unit uibeta, ucorrel; //IBeta               //DMath
20715: 495 unit uPSI_SRMgr;                            //mX4
20716: 496 unit uPSI_HotLog;                            //mX4
20717: 497 unit uPSI_DebugBox;                           //mX4
20718: 498 unit uPSI_ustrings;                          //DMath
20719: 499 unit uPSI_uregtest;                           //DMath
20720: 500 unit uPSI_usimplex;                          //DMath
20721: 501 unit uPSI_uhyper;                            //DMath
20722: 502 unit uPSI_IdHL7;                            //Indy
20723: 503 unit uPSI_IdIPMCastBase;                    //Indy
20724: 504 unit uPSI_IdIPMCastServer;                  //Indy
20725: 505 unit uPSI_IdIPMCastClient;                  //Indy
20726: 506 unit uPSI_unlfit; //nlregression           //DMath
20727: 507 unit uPSI_IdRawHeaders;                      //Indy
20728: 508 unit uPSI_IdRawClient;                       //Indy
20729: 509 unit uPSI_IdRawFunctions;                   //Indy
20730: 510 unit uPSI_IdTCPStream;                        //Indy
20731: 511 unit uPSI_IdSNPP;                            //Indy
20732: 512 unit uPSI_St2DBarC;                          //SysTools
20733: 513 unit uPSI_ImageWin; //FTL                  //VCL

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20734: 514 unit uPSI_CustomDrawTreeView; //FTL          //VCL
20735: 515 unit uPSI_GraphWin; //FTL                  //VCL
20736: 516 unit uPSI_actionMain; //FTL                 //VCL
20737: 517 unit uPSI_StSpawn;                      //SysTools
20738: 518 unit uPSI_CtlPanel;                     //VCL
20739: 519 unit uPSI_IdLPR;                        //Indy
20740: 520 unit uPSI_SockRequestInterpreter;        //Indy
20741: 521 unit uPSI_ultimo;                       //DMath
20742: 522 unit uPSI_ucholesk;                     //DMath
20743: 523 unit uPSI_SimpleDS;                     //VCL
20744: 524 unit uPSI_DBXSqlScanner;                //VCL
20745: 525 unit uPSI_DBXMetaDataTable;             //VCL
20746: 526 unit uPSI_Chart;                        //TEE
20747: 527 unit uPSI_TeeProcs;                    //TEE
20748: 528 unit mXBDEUtils;                      //mX4
20749: 529 unit uPSI_MDIEdit;                     //VCL
20750: 530 unit uPSI_CopyPsr;                      //VCL
20751: 531 unit uPSI_SockApp;                     //VCL
20752: 532 unit uPSI_AppEvnts;                   //VCL
20753: 533 unit uPSI_ExtActns;                   //VCL
20754: 534 unit uPSI_TeEngine;                    //TEE
20755: 535 unit uPSI_CoolMain; //browser          //VCL
20756: 536 unit uPSI_StCRC;                      //SysTools
20757: 537 unit uPSI_StDecMth2;                  //SysTools
20758: 538 unit uPSI_frmExportMain;              //Synedit
20759: 539 unit uPSI_SynDBEdit;                  //Synedit
20760: 540 unit uPSI_SynEditWildcardSearch;       //Synedit
20761: 541 unit uPSI_BoldComUtils;               //BOLD
20762: 542 unit uPSI_BoldIsoDateTime;            //BOLD
20763: 543 unit uPSI_BoldGUIDUtils;              //inCOMUtils
20764: 544 unit uPSI_BoldXMLRequests;            //BOLD
20765: 545 unit uPSI_BoldStringList;             //BOLD
20766: 546 unit uPSI_BoldfileHandler;            //BOLD
20767: 547 unit uPSI_BoldContainers;             //BOLD
20768: 548 unit uPSI_BoldQueryUserDlg;           //BOLD
20769: 549 unit uPSI_BoldWinINet;                //BOLD
20770: 550 unit uPSI_BoldQueue;                  //BOLD
20771: 551 unit uPSI_JvPcx;                      //JCL
20772: 552 unit uPSI_IdWhois;                   //Indy
20773: 553 unit uPSI_IdWhoIsServer;              //Indy
20774: 554 unit uPSI_IdGopher;                  //Indy
20775: 555 unit uPSI_IdDateTimeStamp;            //Indy
20776: 556 unit uPSI_IdDayTimeServer;            //Indy
20777: 557 unit uPSI_IdDayTimeUDP;               //Indy
20778: 558 unit uPSI_IdDayTimeUDPServer;         //Indy
20779: 559 unit uPSI_IdDICTServer;              //Indy
20780: 560 unit uPSI_IdDiscardServer;            //Indy
20781: 561 unit uPSI_IdDiscardUDPServer;         //Indy
20782: 562 unit uPSI_IdMappedFTP;                //Indy
20783: 563 unit uPSI_IdMappedPortTCP;            //Indy
20784: 564 unit uPSI_IdGopherServer;             //Indy
20785: 565 unit uPSI_IdQotdServer;              //Indy
20786: 566 unit uPSI_JvRgbToHtml;                //JCL
20787: 567 unit uPSI_JvRemLog;                  //JCL
20788: 568 unit uPSI_JvSysComp;                 //JCL
20789: 569 unit uPSI_JvTMTL;                    //JCL
20790: 570 unit uPSI_JvWinampAPI;                //JCL
20791: 571 unit uPSI_MSysUtils;                 //mX4
20792: 572 unit uPSI_ESBMaths;                  //ESB
20793: 573 unit uPSI_ESBMaths2;                 //ESB
20794: 574 unit uPSI_uLkJSON;                   //Lk
20795: 575 unit uPSI_ZURL; //Zeos              //Zeos
20796: 576 unit uPSI_ZSysUtils;                 //Zeos
20797: 577 unit unaUtils internals;              //UNA
20798: 578 unit uPSI_ZMatchPattern;             //Zeos
20799: 579 unit uPSI_ZClasses;                  //Zeos
20800: 580 unit uPSI_ZCollections;              //Zeos
20801: 581 unit uPSI_ZEncoding;                 //Zeos
20802: 582 unit uPSI_IdRawBase;                 //Indy
20803: 583 unit uPSI_IdNTLM;                   //Indy
20804: 584 unit uPSI_IdNNTP;                   //Indy
20805: 585 unit uPSI_usniffer; //PortScanForm //mX4
20806: 586 unit uPSI_IdCoderMIME;               //Indy
20807: 587 unit uPSI_IdCoderUUE;                //Indy
20808: 588 unit uPSI_IdCoderXXE;                //Indy
20809: 589 unit uPSI_IdCoder3to4;              //Indy
20810: 590 unit uPSI_IdCookie;                 //Indy
20811: 591 unit uPSI_IdCookieManager;           //Indy
20812: 592 unit uPSI_WDOSocketUtils;            //WDOS
20813: 593 unit uPSI_WDOSPlcUtils;              //WDOS
20814: 594 unit uPSI_WDOSPorts;                 //WDOS
20815: 595 unit uPSI_WDOSResolvers;             //WDOS
20816: 596 unit uPSI_WDOSTimers;                //WDOS
20817: 597 unit uPSI_WDOSPlcs;                 //WDOS
20818: 598 unit uPSI_WDOSPneumatics;            //WDOS
20819: 599 unit uPSI_IdFingerServer;            //Indy
20820: 600 unit uPSI_IdDNSResolver;              //Indy
20821: 601 unit uPSI_IdHTTPWebBrokerBridge;     //Indy
20822: 602 unit uPSI_IdIntercept;               //Indy

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20823: 603 unit uPSI_IdIPMCastBase; //Indy
20824: 604 unit uPSI_IdLogBase; //Indy
20825: 605 unit uPSI_IdIOHandlerStream; //Indy
20826: 606 unit uPSI_IdMappedPortUDP; //Indy
20827: 607 unit uPSI_IdQOTDUDPServer; //Indy
20828: 608 unit uPSI_IdQOTDUDP; //Indy
20829: 609 unit uPSI_IdSysLog; //Indy
20830: 610 unit uPSI_IdSysLogServer; //Indy
20831: 611 unit uPSI_IdSysLogMessage; //Indy
20832: 612 unit uPSI_IdTimeServer; //Indy
20833: 613 unit uPSI_IdTimeUDP; //Indy
20834: 614 unit uPSI_IdTimeUDPServer; //Indy
20835: 615 unit uPSI_IdUserAccounts; //Indy
20836: 616 unit uPSI_TextUtils; //mX4
20837: 617 unit uPSI_MandelbrotEngine; //mX4
20838: 618 unit uPSI_delphi_arduino_Unit1; //mX4
20839: 619 unit uPSI_DTDSchema2; //mX4
20840: 620 unit uPSI_fpplotMain; //DMath
20841: 621 unit uPSI_FindFileIter; //mX4
20842: 622 unit uPSI_PppState; (JclStrHashMap) //PPP
20843: 623 unit uPSI_PppParser; //PPP
20844: 624 unit uPSI_PppLexer; //PPP
20845: 625 unit uPSI_PCharUtils; //PPP
20846: 626 unit uPSI_uJSON; //WU
20847: 627 unit uPSI_JclStrHashMap; //JCL
20848: 628 unit uPSI_JclHookExcept; //JCL
20849: 629 unit uPSI_EncdDecd; //VCL
20850: 630 unit uPSI_SockAppReg; //VCL
20851: 631 unit uPSI_PJFileHandle; //PJ
20852: 632 unit uPSI_PJEnvVars; //PJ
20853: 633 unit uPSI_PJPipe; //PJ
20854: 634 unit uPSI_PJPipeFilters; //PJ
20855: 635 unit uPSI_PJConsoleApp; //PJ
20856: 636 unit uPSI_UConsoleAppEx; //PJ
20857: 637 unit uPSI_DbSocketChannelNative; //VCL
20858: 638 unit uPSI_DbxDDataGenerator; //VCL
20859: 639 unit uPSI_DBXClient; //VCL
20860: 640 unit uPSI_IdLogEvent; //Indy
20861: 641 unit uPSI_Reversi; //mX4
20862: 642 unit uPSI_Geometry; //mX4
20863: 643 unit uPSI_IdSMTPServer; //Indy
20864: 644 unit uPSI_Textures; //mX4
20865: 645 unit uPSI_IBX; //VCL
20866: 646 unit uPSI_IWDBCommon; //VCL
20867: 647 unit uPSI_SortGrid; //mX4
20868: 648 unit uPSI_IB; //VCL
20869: 649 unit uPSI_IBScript; //VCL
20870: 650 unit uPSI_JvCSVBaseControls; //JCL
20871: 651 unit uPSI_Jvg3DColors; //JCL
20872: 652 unit uPSI_JvHLEditor; //beat //JCL
20873: 653 unit uPSI_JvShellHook; //JCL
20874: 654 unit uPSI_DBCommon2; //VCL
20875: 655 unit uPSI_JvSHFileOperation; //JCL
20876: 656 unit uPSI_uFilexport; //mX4
20877: 657 unit uPSI_JvDialogs; //JCL
20878: 658 unit uPSI_JvDBTreeView; //JCL
20879: 659 unit uPSI_JvDBUltimGrid; //JCL
20880: 660 unit uPSI_JvDBQueryParamsForm; //JCL
20881: 661 unit uPSI_JvExControls; //JCL
20882: 662 unit uPSI_JvBDEMemTable; //JCL
20883: 663 unit uPSI_JvCommStatus; //JCL
20884: 664 unit uPSI_JvMailSlots2; //JCL
20885: 665 unit uPSI_JvgWinMask; //JCL
20886: 666 unit uPSI_StEclipse; //SysTools
20887: 667 unit uPSI_StMime; //SysTools
20888: 668 unit uPSI_StList; //SysTools
20889: 669 unit uPSI_StMerge; //SysTools
20890: 670 unit uPSI_StStrs; //SysTools
20891: 671 unit uPSI_StTree; //SysTools
20892: 672 unit uPSI_StVArr; //SysTools
20893: 673 unit uPSI_StRegIni; //SysTools
20894: 674 unit uPSI_urkf; //DMath
20895: 675 unit uPSI_usvd; //DMath
20896: 676 unit uPSI_DepWalkUtils; //JCL
20897: 677 unit uPSI_OptionsFrm; //JCL
20898: 678 unit yuvconverts; //mX4
20899: 679 uPSI_JvPropAutoSave; //JCL
20900: 680 uPSI_AclAPI; //alcinoe
20901: 681 uPSI_AviCap; //alcinoe
20902: 682 uPSI_ALAVLBinaryTree; //alcinoe
20903: 683 uPSI_ALFcMisc; //alcinoe
20904: 684 uPSI_ALStringList; //alcinoe
20905: 685 uPSI_ALQuickSortList; //alcinoe
20906: 686 uPSI_ALStaticText; //alcinoe
20907: 687 uPSI_ALJSONDOC; //alcinoe
20908: 688 uPSI_ALGSMComm; //alcinoe
20909: 689 uPSI_ALWindows; //alcinoe
20910: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
20911: 691 uPSI_ALHttpCommon; //alcinoe

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20912: 692 uPSI_ALWebSpider, //alcinoe
20913: 693 uPSI_ALHttpClient; //alcinoe
20914: 694 uPSI_ALFcHTML; //alcinoe
20915: 695 uPSI_ALFTPClient; //alcinoe
20916: 696 uPSI_ALInternetMessageCommon; //alcinoe
20917: 697 uPSI_ALWininetHttpclient; //alcinoe
20918: 698 uPSI_ALWinInetFTPCClient; //alcinoe
20919: 699 uPSI_ALWinHttpWrapper; //alcinoe
20920: 700 uPSI_ALWinHttpclient; //alcinoe
20921: 701 uPSI_ALFcWinSock; //alcinoe
20922: 702 uPSI_ALFcSQL; //alcinoe
20923: 703 uPSI_ALFcCGI; //alcinoe
20924: 704 uPSI_ALFcExecute; //alcinoe
20925: 705 uPSI_ALFcFile; //alcinoe
20926: 706 uPSI_ALFcMimeType; //alcinoe
20927: 707 uPSI_ALPhpRunner; //alcinoe
20928: 708 uPSI_ALGraphic; //alcinoe
20929: 709 uPSI_ALIniFiles; //alcinoe
20930: 710 uPSI_ALMemCachedClient; //alcinoe
20931: 711 unit uPSI_MyGrids; //mX4
20932: 712 uPSI_ALMultiPartMixedParser //alcinoe
20933: 713 uPSI_ALSMTPClient //alcinoe
20934: 714 uPSI_ALNNTPClient; //alcinoe
20935: 715 uPSI_ALHintBalloon; //alcinoe
20936: 716 unit uPSI_ALXmlDoc; //alcinoe
20937: 717 unit uPSI_IPCThrd; //VCL
20938: 718 unit uPSI_MonForm; //VCL
20939: 719 unit uPSI_TeCanvas; //Orpheus
20940: 720 unit uPSI_Ovcmisc; //Orpheus
20941: 721 unit uPSI_ovcfiler; //Orpheus
20942: 722 unit uPSI_ovcstate; //Orpheus
20943: 723 unit uPSI_ovccoco; //Orpheus
20944: 724 unit uPSI_ovcrvexp; //Orpheus
20945: 725 unit uPSI_OvcFormatSettings; //Orpheus
20946: 726 unit uPSI_OvcUtils; //Orpheus
20947: 727 unit uPSI_ovcstore; //Orpheus
20948: 728 unit uPSI_ovcstr; //Orpheus
20949: 729 unit uPSI_ovcmru; //Orpheus
20950: 730 unit uPSI_ovccmd; //Orpheus
20951: 731 unit uPSI_ovctimer; //Orpheus
20952: 732 unit uPSI_ovcintl; //Orpheus
20953: 733 uPSI_AfCircularBuffer; //AsyncFree
20954: 734 uPSI_AfUtils; //AsyncFree
20955: 735 uPSI_AfSafeSync; //AsyncFree
20956: 736 uPSI_AfComPortCore; //AsyncFree
20957: 737 uPSI_AfComPort; //AsyncFree
20958: 738 uPSI_AfPortControls; //AsyncFree
20959: 739 uPSI_AfDataDispatcher; //AsyncFree
20960: 740 uPSI_AfViewers; //AsyncFree
20961: 741 uPSI_AfDataTerminal; //AsyncFree
20962: 742 uPSI_SimplePortMain; //AsyncFree
20963: 743 unit uPSI_ovcclock; //Orpheus
20964: 744 unit uPSI_o32intlst; //Orpheus
20965: 745 unit uPSI_o32ledlabel; //Orpheus
20966: 746 unit uPSI_AlMySqlClient; //alcinoe
20967: 747 unit uPSI_ALFBXClient; //alcinoe
20968: 748 unit uPSI_ALFcSQL; //alcinoe
20969: 749 unit uPSI_AsyncTimer; //mX4
20970: 750 unit uPSI_ApplicationFileIO; //mX4
20971: 751 unit uPSI_PsAPI; //VCLé
20972: 752 uPSI_ovcuser; //Orpheus
20973: 753 uPSI_ovcurl; //Orpheus
20974: 754 uPSI_ovcvlb; //Orpheus
20975: 755 uPSI_ovccolor; //Orpheus
20976: 756 uPSI_ALFBXLib; //alcinoe
20977: 757 uPSI_ovcmeter; //Orpheus
20978: 758 uPSI_ovcpeakm; //Orpheus
20979: 759 uPSI_O32BGsty; //Orpheus
20980: 760 uPSI_ovcBidi; //Orpheus
20981: 761 uPSI_ovctcarry; //Orpheus
20982: 762 uPSI_DXPUtils; //mX4
20983: 763 uPSI_ALMultiPartBaseParser; //alcinoe
20984: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
20985: 765 uPSI_ALPOP3Client; //alcinoe
20986: 766 uPSI_SmallUtils; //mX4
20987: 767 uPSI_MakeApp; //mX4
20988: 768 uPSI_O32MouseMon; //Orpheus
20989: 769 uPSI_OvcCache; //Orpheus
20990: 770 uPSI_ovccalc; //Orpheus
20991: 771 uPSI_Joystick; //OpenGL
20992: 772 uPSI_ScreenSaver; //OpenGL
20993: 773 uPSI_XCollection; //OpenGL
20994: 774 uPSI_Polynomials; //OpenGL
20995: 775 uPSI_PersistentClasses, //9.86 //OpenGL
20996: 776 uPSI_VectorLists; //OpenGL
20997: 777 uPSI_XOpenGL; //OpenGL
20998: 778 uPSI_MeshUtils; //OpenGL
20999: 779 unit uPSI_JclSysUtils; //JCL
21000: 780 unit uPSI_JclBorlandTools; //JCL

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21001: 781 unit JclFileUtils_max;                                //JCL
21002: 782 uPSI_AfDataControls;                                //AsyncFree
21003: 783 uPSI_GLSilhouette;                                 //OpenGL
21004: 784 uPSI_JclSysUtils_class;                            //JCL
21005: 785 uPSI_JclFileUtils_class;                            //JCL
21006: 786 uPSI_FileUtil;                                    //JCL
21007: 787 uPSI_changefind;                                 //mX4
21008: 788 uPSI_CmdIntf;                                   //mX4
21009: 789 uPSI_fservice;                                 //OpenGL
21010: 790 uPSI_Keyboard;                                  //OpenGL
21011: 791 uPSI_VRMLParser;                               //OpenGL
21012: 792 uPSI_GLFileVRML;                             //OpenGL
21013: 793 uPSI_Octree;                                  //OpenGL
21014: 794 uPSI_GLPolyhedron;                            //OpenGL
21015: 795 uPSI_GLCrossPlatform;                          //OpenGL
21016: 796 uPSI_GLParticles;                            //OpenGL
21017: 797 uPSI_GLNavigator;                            //OpenGL
21018: 798 uPSI_GLStarRecord;                           //OpenGL
21019: 799 uPSI_GLTextureCombiners;                      //OpenGL
21020: 800 uPSI_GLCanvas;                                //OpenGL
21021: 801 uPSI_GeometryBB;                            //OpenGL
21022: 802 uPSI_GeometryCoordinates;                     //OpenGL
21023: 803 uPSI_VectorGeometry;                          //OpenGL
21024: 804 uPSI_BumpMapping;                           //OpenGL
21025: 805 uPSI_TGA;                                    //OpenGL
21026: 806 uPSI_GLVectorFileObjects;                    //OpenGL
21027: 807 uPSI_IMM;                                   //VCL
21028: 808 uPSI_CategoryButtons;                        //VCL
21029: 809 uPSI_ButtonGroup;                           //VCL
21030: 810 uPSI_DbExcept;                            //VCL
21031: 811 uPSI_AxCtrls;                             //VCL
21032: 812 uPSI_GL_actorUnit1;                         //OpenGL
21033: 813 uPSI_StdVCL;                             //VCL
21034: 814 unit CurvesAndSurfaces;                   //OpenGL
21035: 815 uPSI_DataAwareMain;                          //AsyncFree
21036: 816 uPSI_TabNotBk;                            //VCL
21037: 817 uPSI_udwsfiler;                           //mX4
21038: 818 uPSI_synaip;                            //Synapse!
21039: 819 uPSI_synacode;                           //Synapse
21040: 820 uPSI_synachar;                           //Synapse
21041: 821 uPSI_synamisc;                           //Synapse
21042: 822 uPSI_synaser;                            //Synapse
21043: 823 uPSI_synaicnv;                           //Synapse
21044: 824 uPSI_tlnntsend;                           //Synapse
21045: 825 uPSI_pingsend;                           //Synapse
21046: 826 uPSI_blecksock;                           //Synapse
21047: 827 uPSI_asnutil;                            //Synapse
21048: 828 uPSI_dnssend;                            //Synapse
21049: 829 uPSI_clamsend;                           //Synapse
21050: 830 uPSI_ldapsend;                           //Synapse
21051: 831 uPSI_mimemess;                           //Synapse
21052: 832 uPSI_slogsend;                           //Synapse
21053: 833 uPSI_mimepart;                           //Synapse
21054: 834 uPSI_mimeinln;                           //Synapse
21055: 835 uPSI_ftpsend;                            //Synapse
21056: 836 uPSI_ftptsend;                           //Synapse
21057: 837 uPSI_httpsend;                           //Synapse
21058: 838 uPSI_sntpsend;                           //Synapse
21059: 839 uPSI_smtpsend;                           //Synapse
21060: 840 uPSI_snmpsend;                           //Synapse
21061: 841 uPSI_imapsend;                           //Synapse
21062: 842 uPSI_pop3send;                           //Synapse
21063: 843 uPSI_nntpsend;                           //Synapse
21064: 844 uPSI_ssl_cryptlib;                      //Synapse
21065: 845 uPSI_ssl_openssl;                        //Synapse
21066: 846 uPSI_synthtp_daemon;                     //Synapse
21067: 847 uPSI_NetWork;                           //mX4
21068: 848 uPSI_PingThread;                          //Synapse
21069: 849 uPSI_JvThreadTimer;                      //JCL
21070: 850 unit uPSI_wwSystem;                      //InfoPower
21071: 851 unit uPSI_IdComponent;                   //Indy
21072: 852 unit uPSI_IdIOHandlerThrottle;          //Indy
21073: 853 unit uPSI_Themes;                         //VCL
21074: 854 unit uPSI_StdStyleActnCtrls;            //VCL
21075: 855 unit uPSI_UDDIHelper;                    //VCL
21076: 856 unit uPSI_IdIMAP4Server;                //Indy
21077: 857 uPSI_VariantSymbolTable;                 //VCL //3.9.9.92
21078: 858 uPSI_udf_glob;                           //mX4
21079: 859 uPSI_TabGrid;                            //VCL
21080: 860 uPSI_JsDBTreeView;                       //mX4
21081: 861 uPSI_JsSendMail;                          //mX4
21082: 862 uPSI_dbTvRecordList;                     //mX4
21083: 863 uPSI_TreeWEx;                           //mX4
21084: 864 uPSI_ECDataLink;                         //mX4
21085: 865 uPSI_dbTree;                            //mX4
21086: 866 uPSI_dbTreeCBox;                          //mX4
21087: 867 unit uPSI_Debug; //TfrmDebug           //mX4
21088: 868 uPSI_TimeFncs;                           //mX4
21089: 869 uPSI_FileIntf,                           //VCL

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21090: 870 uPSI_SockTransport, //RTL
21091: 871 unit uPSI_WinInet; //RTL
21092: 872 unit uPSI_Wwstr; //mX4
21093: 873 uPSI_DBLookup, //VCL
21094: 874 uPSI_Hotspot, //mX4
21095: 875 uPSI_HList; //History List //mX4
21096: 876 unit uPSI_DrTable; //VCL
21097: 877 uPSI_TConnect, //VCL
21098: 978 uPSI_DataBkr, //VCL
21099: 979 uPSI_HTTPIntr; //VCL
21100: 980 unit uPSI_Mathbox; //mX4
21101: 881 uPSI_cyIndy, //cY
21102: 882 uPSI_cySysUtils, //cY
21103: 883 uPSI_cyWinUtils, //cY
21104: 884 uPSI_cyStrUtils, //cY
21105: 885 uPSI_cyObjUtils, //cY
21106: 886 uPSI_cyDateUtils, //cY
21107: 887 uPSI_cyBDE, //cY
21108: 888 uPSI_cyClasses, //cY
21109: 889 uPSI_cyGraphics, //3.9.9.94_2 //cY
21110: 890 unit uPSI_cyTypes; //cY
21111: 891 uPSI_JvDateTimePicker, //JCL
21112: 892 uPSI_JvCreateProcess, //JCL
21113: 893 uPSI_JvEasterEgg, //JCL
21114: 894 uPSI_WinSvc, //3.9.9.94_3 //VCL
21115: 895 uPSI_SvcMgr //VCL
21116: 896 unit uPSI_JvPickDate; //JCL
21117: 897 unit uPSI_JvNotify; //JCL
21118: 898 uPSI_JvStrHlder //JCL
21119: 899 unit uPSI_JclNTFS2; //JCL
21120: 900 uPSI_Jcl8087 //math coprocessor //JCL
21121: 901 uPSI_JvAddPrinter //JCL
21122: 902 uPSI_JvCabFile //JCL
21123: 903 uPSI_JvDataEmbedded; //JCL
21124: 904 unit uPSI_U_HexView; //mX4
21125: 905 uPSI_UWavein4, //mX4
21126: 906 uPSI_AMixer, //mX4
21127: 907 uPSI_JvaScrollText, //mX4
21128: 908 uPSI_JvArrow, //mX4
21129: 909 unit uPSI.UrlMon; //mX4
21130: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
21131: 911 unit uPSI_U_Oscilloscope4; //TOScfrmMain; //DFF
21132: 912 unit uPSI_DFFUutils; //DFF
21133: 913 unit uPSI_MathsLib; //DFF
21134: 914 uPSI_UIntlist; //DFF
21135: 915 uPSI_UGetParens; //DFF
21136: 916 unit uPSI_UGeometry; //DFF
21137: 917 unit uPSI_UAstronomy; //DFF
21138: 918 unit uPSI_UCardComponentV2; //DFF
21139: 919 unit uPSI_UTGraphSearch; //DFF
21140: 920 unit uPSI_UParser10; //DFF
21141: 921 unit uPSI_cyIEUtils; //cY
21142: 922 unit uPSI_UcomboV2; //DFF
21143: 923 uPSI_cyBaseComm, //cY
21144: 924 uPSI_cyAppInstances, //cY
21145: 925 uPSI_cyAttract, //cY
21146: 926 uPSI_cyDERUtils //cY
21147: 927 unit uPSI_cyDocER; //cY
21148: 928 unit uPSI_ODBC; //mX
21149: 929 unit uPSI_AssocExec; //mX
21150: 930 uPSI_cyBaseCommRoomConnector, //cY
21151: 931 uPSI_cyCommRoomConnector, //cY
21152: 932 uPSI_cyCommunicate, //cY
21153: 933 uPSI_cyImage; //cY
21154: 934 uPSI_cyBaseContainer //cY
21155: 935 uPSI_cyModalContainer, //cY
21156: 936 uPSI_cyFlyingContainer; //cY
21157: 937 uPSI_RegStr, //VCL
21158: 938 uPSI_HtmlHelpViewer; //VCL
21159: 939 unit uPSI_cyIniform //cY
21160: 940 unit uPSI_cyVirtualGrid; //cY
21161: 941 uPSI_Profiler, //DA
21162: 942 uPSI_BackgroundWorker, //DA
21163: 943 uPSI_Waveplay, //DA
21164: 944 uPSI_WaveTimer, //DA
21165: 945 uPSI_WaveUtils; //DA
21166: 946 uPSI_NamedPipes, //TB
21167: 947 uPSI_NamedPipeServer, //TB
21168: 948 unit uPSI_process, //TB
21169: 949 unit uPSI_DPUtills; //TB
21170: 950 unit uPSI_CommonTools; //TB
21171: 951 uPSI_DataSendToWeb, //TB
21172: 952 uPSI_StarCalc, //TB
21173: 953 uPSI_D2_XPVistaHelperU //TB
21174: 954 unit uPSI_NetTools //TB
21175: 955 unit uPSI_Pipes //TB
21176:
21177:
21178:

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21179: //////////////////////////////////////////////////////////////////
21180: //Form Template Library FTL
21181: //////////////////////////////////////////////////////////////////
21182:
21183: 30 FTL For Form Building out of the Script, eg. 399_form_templates.txt
21184:
21185: 045 unit uPSI_VListView; TFormListView;
21186: 263 unit uPSI_JvProfiler32; TProfReport;
21187: 270 unit uPSI_ImgList; TCustomImageList;
21188: 278 unit uPSI_JvImageWindow; TJvImageWindow;
21189: 317 unit uPSI_JvParserForm; TJvHTMLParserForm;
21190: 497 unit uPSI_DebugBox; TDebugBox;
21191: 513 unit uPSI_ImageWin; TImageForm, TImageForm2;
21192: 514 unit uPSI_CustomDrawTreeView; TCustomDrawForm;
21193: 515 unit uPSI_GraphWin; TGraphWinForm;
21194: 516 unit uPSI_actionMain; TActionForm;
21195: 518 unit uPSI_CtlPanel; TAppletApplication;
21196: 529 unit uPSI_MDIEdit; TEditForm;
21197: 535 unit uPSI_CoolMain; {browser} TWeb MainForm;
21198: 538 unit uPSI_frmExportMain; TSynexportForm;
21199: 585 unit uPSI_usniffer; {/PortScanForm} TSniffForm;
21200: 600 unit uPSI_ThreadForm; TThreadSortForm;
21201: 618 unit uPSI_delphi_arduino_Unit1; TLEDForm;
21202: 620 unit uPSI_fplotMain; TfplotForm1;
21203: 660 unit uPSI_JvDBQueryParamsForm; TJvQueryParamsDialog;
21204: 677 unit uPSI_OptionsFrm; TfrmOptions;
21205: 718 unit uPSI_MonForm; TMonitorForm;
21206: 742 unit uPSI_SimplePortMain; TPortForm1;
21207: 770 unit uPSI_ovccalc; TOvcCalculator //widget;
21208: 810 unit uPSI_DbExcept; TDbEngineErrorDlg;
21209: 812 unit uPSI_GL_actorUnit1; TglactorForm1 //OpenGL Robot;
21210: 846 unit uPSI_synhttp_daemon; TTCPHttpDaemon, TTCPHttpThrd, TPingThread;
21211: 867 unit uPSI_Debug; TfrmDebug;
21212: 904 unit uPSI_U_HexView; THexForm2;
21213: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOscfrmMain;
21214:
21215: ex.:with TEditForm.create(self) do begin
21216:   caption:= 'Template Form Tester';
21217:   FormStyle:= fsStayOnTop;
21218:   with editor do begin
21219:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf'
21220:     SelStart:= 0;
21221:     Modified:= False;
21222:   end;
21223: end;
21224: with TWeb MainForm.create(self) do begin
21225:   URLs.Text:= 'http://www.kleiner.ch';
21226:   URLsClick(self); Show;
21227: end;
21228: with TSynexportForm.create(self) do begin
21229:   Caption:= 'Synexport HTML RTF tester';
21230:   Show;
21231: end;
21232: with TThreadSortForm.create(self) do begin
21233:   showmodal; free;
21234: end;
21235: with TCustomDrawForm.create(self) do begin
21236:   width:=820; height:=820;
21237:   image1.height:= 600; //add properties
21238:   image1.picture.bitmap:= image2.picture.bitmap;
21239:   //SelectionBackground1Click(self) CustomDraw1Click(self);
21240:   Background1.click;
21241:   bitmap1.click;
21242:   Tile1.click;
21243:   Showmodal;
21244:   Free;
21245: end;
21246: with TfplotForm1.Create(self) do begin
21247:   BtnPlotClick(self);
21248:   Showmodal; Free;
21249: end;
21250: with TOvcCalculator.create(self) do begin
21251:   parent:= aForm;
21252:   //free;
21253:   setbounds(550,510,200,150);
21254:   displaystr:= 'maXcalc';
21255: end;
21256: with THexForm2.Create(self) do begin
21257:   ShowModal;
21258:   Free;
21259: end;
21260:
21261: function CheckBox: string;
21262: var idHTTP: TIDHTTP;
21263: begin
21264:   result:= 'version not found';
21265:   if IsInternet then begin
21266:     idHTTP:= TIdHTTP.Create(NIL);
21267:     try

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21268:     result:= idHTTP.Get(MXVERSIONFILE2);
21269:     result:= result[1]+result[2]+result[3]+result[4]+result[5];
21270:     if result = MBVER2 then begin
21271:       //output.Font.Style:= [fsbold];
21272:       //Speak(' A new Version '+vstr+' of max box is available! ');
21273:       result:= ('!!! OK. You have latest Version: '+result+ ' available at '+MXSITE);
21274:     end;
21275:   //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
21276:   finally
21277:     idHTTP.Free
21278:   end;
21279: end;
21280: end;
21281:
21282:
21283: /////////////////////////////// All maxBox Tutorials Table of Content 2014 ///////////////////////////////
21284: All maxBox Tutorials Table of Content 2014
21285: /////////////////////////////// All maxBox Tutorials Table of Content 2014 ///////////////////////////////
21286: Tutorial 00 Function-Coding (Blix the Programmer)
21287: Tutorial 01 Procedural-Coding
21288: Tutorial 02 OO-Programming
21289: Tutorial 03 Modular Coding
21290: Tutorial 04 UML Use Case Coding
21291: Tutorial 05 Internet Coding
21292: Tutorial 06 Network Coding
21293: Tutorial 07 Game Graphics Coding
21294: Tutorial 08 Operating System Coding
21295: Tutorial 09 Database Coding
21296: Tutorial 10 Statistic Coding
21297: Tutorial 11 Forms Coding
21298: Tutorial 12 SQL DB Coding
21299: Tutorial 13 Crypto Coding
21300: Tutorial 14 Parallel Coding
21301: Tutorial 15 Serial RS232 Coding
21302: Tutorial 16 Event Driven Coding
21303: Tutorial 17 Web Server Coding
21304: Tutorial 18 Arduino System Coding
21305: Tutorial 18_3 RGB LED System Coding
21306: Tutorial 19 WinCOM /Arduino Coding
21307: Tutorial 20 Regular Expressions RegEx
21308: Tutorial 21 Android Coding (coming 2013)
21309: Tutorial 22 Services Programming
21310: Tutorial 23 Real Time Systems
21311: Tutorial 24 Clean Code
21312: Tutorial 25 maxBox Configuration I+II
21313: Tutorial 26 Socket Programming with TCP
21314: Tutorial 27 XML & TreeView
21315: Tutorial 28 DLL Coding (available)
21316: Tutorial 29 UML Scripting (2014)
21317: Tutorial 30 Web of Things (2014)
21318: Tutorial 31 Closures (coming 2014)
21319: Tutorial 32 SQL Firebird (coming 2014)
21320: Tutorial 33 Oscilloscope (coming 2015)
21321: Tutorial 34 GPS Navigation (coming 2015)
21322: Tutorial 35 Web Box (available)
21323:
21324: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
21325: using Docu for this file is maxbox_functions_all.pdf
21326: PEP - Pascal Education Program Lib Lab
21327:
21328: http://stackoverflow.com/tags/pascalscript/hot
21329: http://www.jrsoftware.org/isghelp/index.php?topic=scriptfunctions
21330: http://sourceforge.net/projects/maxbox #locs:51620
21331: http://sourceforge.net/apps/mediawiki/maxbox
21332: http://www.blaisepascal.eu/
21333: https://github.com/maxkleiner/maxBox3.git
21334: http://www.heise.de/download/maxbox-1176464.html
21335: http://www.softpedia.com/get/Programming/Other-Programming-Files/maxBox.shtml
21336: https://www.facebook.com/pages/Programming-maxBox/166844836691703
21337: http://www.softwareschule.ch/arduino_training.pdf
21338: http://www.delphiarea.com
21339:
21340: All maxBox Examples List
21341: https://github.com/maxkleiner/maxBox3/releases
21342: ****
21343: 000_pas_baseconvert.txt          282_fadengraphik.txt
21344: 000_pas_baseconvert.txt_encrypt 283_SQL_API_messagetimeout.txt
21345: 000_pas_baseconvert.txt_decrypt 284_SysTools4.txt
21346: 001_1_pas_functest - Kopie.txt 285_MineForm_GR32.TXT
21347: 001_1_pas_functest.txt          285_MineForm_GR32main.TXT
21348: 001_1_pas_functest2.txt        285_MineForm_GR32 mainsolution.TXT
21349: 001_1_pas_functest_clx2.txt    285_MineForm_propas.TXT
21350: 001_1_pas_functest_clx2_2.txt  285_MineForm_propas2.TXT
21351: 001_1_pas_functest_openarray.txt 285_minesweeper2.TXT
21352: 001_pas_lottogen.txt           285_Patterns_process.txt
21353: 001_pas_lottogen_template.txt  286_colormixer_jpeg_charcounter.txt
21354: 001_pas_lottogen.txtcopy      286_colormixer_jpeg_charcounter2.txt
21355: 002_pas_russianroulette.txt   287_eventhandling.txt
21356: 002_pas_russianroulette.txtcopy 287_eventhandling2.txt

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21357: 002_pas_russianroulette.txtcopy_decrypt      287_eventhandling2_negpower.txt
21358: 002_pas_russianroulette.txtcopy_encrypt      288_bitblt.txt
21359: 003_pas_motion.txt                          288_bitblt_resize.txt
21360: 003_pas_motion.txtcopy                     289_regression.txt
21361: 004_pas_search.txt                         289_regression2.txt
21362: 004_pas_search_replace.txt                 290_bestofbox.txt
21363: 004_search_replace_allfunctionlist.txt    290_bestofbox2.txt
21364: 005_pas_oodesign.txt                      290_bestofbox3.txt
21365: 005_pas_shelllink.txt                     291_3sort_visual_thread.txt
21366: 006_pas_oobatch.txt                       292_refactoring2.txt
21367: 007_pas_streamcopy.txt                    293_bold_utils.txt
21368: 008_EINMALEINS_FUNC.TXT                  293_ib_utils.txt
21369: 008_explanation.txt                      293_ib_utils_timetest.txt
21370: 008_pas_verwechselst.txt                 294_maxcalc_demo.txt
21371: 008_pas_verwechselst_ibz_bern_func.txt   294_maxcalc_demo2.txt
21372: 008_stack_ibz.TXT                        295_easter_calendar.txt
21373: 009_pas_umrunner.txt                     295_easter_calendar2.txt
21374: 009_pas_umrunner_all.txt                 295_easter_combobox.txt
21375: 009_pas_umrunner_componenttest.txt       297_atomimage.txt
21376: 009_pas_umrunner_solution.txt            297_atomimage2.txt
21377: 009_pas_umrunner_solution_2step.txt      297_atomimage3.txt
21378: 010_pas_oodesign_solution.txt            297_atomimage4.txt
21379: 011_pas_puzzlepas_defect.txt             297_maxonmotor.TXT
21380: 012_pas_umrunner_solution.txt            297_maxon_atomimage9.txt
21381: 012_pas_umrunner_solution2.txt           298_bitblt_animation.txt
21382: 013_pas_linenumber.txt                   298_bitblt_animation2.txt
21383: 014_pas_primetest.txt                   298_bitblt_animation3.txt
21384: 014_pas_primetest_first.txt              298_bitblt_animation4.txt
21385: 014_pas_primetest_sync.txt              298_bitblt_animation4_screensaver.txt
21386: 015_pas_designbycontract.txt            298_bitblt_animation5_screensaver.txt
21387: 015_pas_designbycontract_solution.txt   299_animation.txt
21388: 016_pas_searchrec.txt                   299_animationmotor_arduino.txt
21389: 017_chartgen.txt                        299_animation_formprototype.txt
21390: 018_data_simulator.txt                 299_realtimeclock_arduino.txt
21391: 019_dez_to_bin.txt                      299_realtimeclock_arduino2.txt
21392: 019_dez_to_bin_grenzwert_ibz.txt        300_treeview.txt
21393: 020_proc_feedback.txt                  300_treeview_test.txt
21394: 021_pas_symkey.txt                     300_treeview_test2.txt
21395: 021_pas_symkey_solution.txt            300_treeview_test3.txt
21396: 022_pas_filestreams.txt                301_LED_Arduino3.txt
21397: 023_pas_find_searchrec.txt             301_led_arduino3_simple.txt
21398: 023_pas_pathfind.txt                  301_led_arduino3_simplecode.txt
21399: 024_pas_TFileStream_records.txt       301_log_arduino.txt
21400: 025_prime_direct.txt                  301_log_arduino2.txt
21401: 026_pas_memorystream.txt              301_SQL_DBfirebird3.txt
21402: 027_pas_shellexecute_beta.txt         301_SQL_DBfirebird4.txt
21403: 027_pas_shellexecute_solution.txt    302_LCLActivity_java.txt
21404: 028_pas_dataset.txt                   302_LED_DataLogger.txt
21405: 029_pas_assignfile.txt                303_Android_LCLActivity_java.txt
21406: 029_pas_assignfile_dragndropexe.txt  303_webserver.txt
21407: 030_palindrome_2.txt                  303_webserver2.txt
21408: 030_palindrome_tester.txt             303_webserver_alldocs2.txt
21409: 030_pas_recursion.txt                303_webserver_alldocs2_tester.txt
21410: 030_pas_recursion2.txt               303_webserver_minimal.txt
21411: 031_pas_hashcode.txt                 303_webserver_simple.txt
21412: 032_pas_crc_const.txt                304_st_system.txt
21413: 033_pas_cipher.txt                   305_indy_elizahttpserver.TXT
21414: 033_pas_cipher_def.txt              305_indy_elizahttpserver2.TXT
21415: 033_pas_cipher_file_2_solution.txt  305_indy_elizahttpserver3.TXT
21416: 034_pas_soundbox.txt                305_indy_elizahttpserver4file.TXT
21417: 035_pas_crcscript.txt              305_webserver_arduino.txt
21418: 035_pas_CRCscript_modbus.txt        305_webserver_arduino2.txt
21419: 036_pas_includetest.txt            305_webserver_arduino3.txt
21420: 036_pas_includetest_basta.txt       305_webserver_arduino3ibz.txt
21421: 037_pas_define_demo32.txt          305_webserver_arduino3ibz_rgb_led.txt
21422: 038_pas_box_demonstrator.txt       305_webserver_arduino3test.txt
21423: 039_pas_dllcall.txt                306_SPS_http_command.txt
21424: 040_paspointer.txt                 307_all_booleanlogic.txt
21425: 040_paspointer_old.txt            308_bitbox3.txt
21426: 041_pasplotter.txt                308_bitbox3_exec.txt
21427: 041_pasplotter_plus.txt           308_boolean_animation.txt
21428: 042_pas_kgv_ggt.txt              308_boolean_animation2.txt
21429: 043_pas_proceduretype.txt         309_regex_power.txt
21430: 044_pas_14queens_solwith14.txt    309_regex_powertester2.txt
21431: 044_pas_8queens.txt              309_regex_powertester3.txt
21432: 044_pas_8queens_sol2.txt          310_regex_decorator.TXT
21433: 044_pas_8queens_solutions.txt    312_ListView.txt
21434: 044_pas_queens_performer.txt     313_dmath_dll.txt
21435: 044_queens_performer2.txt        314_fundamentals4_tester.TXT
21436: 044_queens_performer2tester.txt   315_funcplot_dmath.TXT
21437: 045_pas_listhandling.txt         316_cfileutils_cdatetime_tester.TXT
21438: 046_pas_records.txt              317_excel_export_tester.TXT
21439: 047_pas_modula10.txt             318_excel_export.TXT
21440: 048_pas_romans.txt              318_excel_export2.TXT
21441: 049_pas_ifdemo.txt              318_excel_export3.TXT
21442: 049_pas_ifdemo_BROKER.txt      318_excel_export3_tester.TXT
21443: 050_pas_primetest2.txt          319_superfunctions_math.TXT
21444: 050_pas_primetester_thieves.txt  319_superfunctions_mathdefect.TXT
21445: 050_program_starter.txt         320_superfunctions.TXT

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21446: 050_program_starter_performance.txt          320_superfunctions2.TXT
21447: 051_pas_findtext_solution.txt              321_SQL_Excel.txt
21448: 052_pas_text_as_stream.txt                321_SQL_Excel2.txt
21449: 052_pas_text_as_stream_include.txt        321_SQL_Excel_Export.txt
21450: 053_pas_singleton.txt                     321_SQL_ExportExec.txt
21451: 054_pas_speakpassword.txt                321_SQL_ExportTest.txt
21452: 054_pas_speakpassword2.txt               321_SQL_SAS_tester3.txt
21453: 054_pas_speakpassword_searchtest.txt    321_SQL_SAS_tester3_selfcompile.txt
21454: 055_pas_factorylist.txt                 321_SQL_SAS_tester3_selfcompile2.txt
21455: 056_pas_demeter.txt                     321_SQL_SAS_tester4.txt
21456: 057_pas_dirfinder.txt                   321_SQL_SAS_updater.txt
21457: 058_pas_filefinder.txt                  322_timezones.TXT
21458: 058_pas_filefinder_pdf.txt             323_datefind_fulltext_search.txt
21459: 058_pas_filefinder_screview.txt       323_datefind_fulltext_searchtester.txt
21460: 058_pas_filefinder_screview2.txt      324_interfacenavi.TXT
21461: 058_pas_filefinder_screview3.txt      325_ampelsteuerung.txt
21462: 059_pas_timertest.txt                 325_analogclock.txt
21463: 059_pas_timertest_2.txt                326_world_analogclock.txt
21464: 059_pas_timertest_time_solution.txt   326_world_analogclock2.txt
21465: 059_timerobject_starter2.txt          327_atomimage_clock.txt
21466: 059_timerobject_starter2_ibz2_async.txt 328_starfield.txt
21467: 059_timerobject_starter2_uml.txt       329_starfield2.txt
21468: 059_timerobject_starter2_uml_main.txt  330_myclock.txt
21469: 059_timerobject_starter4_ibz.txt       330_myclock2.txt
21470: 060_pas_datefind.txt                  331_SQL_DBfirebird4.txt
21471: 060_pas_datefind_exceptions2.txt     332_jprofiler.txt
21472: 060_pas_datefind_exceptions_CHECKTEST.txt 332_jprofiler_form.txt
21473: 060_pas_datefind_fulltext.txt        332_jprofiler_form2.txt
21474: 060_pas_datefind_plus.txt            333_querybyexample.txt
21475: 060_pas_datefind_plus_mydate.txt    333_querybyexample2.txt
21476: 061_pas_randomwalk.txt              334_jutils_u.txt
21477: 061_pas_randomwalk_plus.txt        335_atomimage5.txt
21478: 062_paskorrelation.txt            335_atomimage6.txt
21479: 063_pas_calculateform.txt         335_atomimage7.txt
21480: 063_pas_calculateform_2list.txt   336_digiclock.txt
21481: 064_pas_timetest.txt              336_digiclock2.txt
21482: 065_pas_bitcounter.txt            336_digiclock2test.txt
21483: 066_pas_eliza.txt                336_digiclock3.txt
21484: 066_pas_eliza_include_sol.txt   337_4games.txt
21485: 067_pas_morse.txt               337_4games_inone.txt
21486: 068_pas_piezo_sound.txt         338_compress.txt
21487: 069_LED_Matrix_R1_3_6_NV_PSchaer.TXT 338_compress2.txt
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21491: 069_pas_LEDMATRIX_Alphabet_run.txt 340_logsimulation2.txt
21492: 069_pas_LEDMATRIX_Alphabet_tester.txt 340_soundControltype.txt
21493: 069_PAS_LEDMATRIX_COLOR.TXT   341_blix_clock.txt
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21495: 069_pas_LEDMATRIX_soundbox.txt 341_blix_clock_tester.txt
21496: 069_pas_LEDMATRIX_soundbox2.txt 342_set Enumerator.txt
21497: 069_Richter_MATRIX.TXT        343_dice2.txt
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21503: 070_pas_functionplotter4.txt  348_duallistview.txt
21504: 070_pas_functionplotter_digital.txt 349_biginteger.txt
21505: 070_pas_functionplotter_elliptic.txt 350_parserform.txt
21506: 070_pas_function_helmholtz.txt 351_chartform.txt
21507: 070_pas_textcheck_experimental.txt 351_chartform2.txt
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21510: 071_pas_graphics_drawsym_save.txt 353_smtp_email.txt
21511: 071_pas_graphics_random.txt  353_smtp_email2.txt
21512: 072_pas_fractals.txt         354_josephus.txt
21513: 072_pas_fractals_2.txt       355_life_of_PI.txt
21514: 072_pas_fractals_blackhole.txt 356_3D_printer.txt
21515: 072_pas_fractals_performance.txt 357_fplot.TXT
21516: 072_pas_fractals_performace_new.txt 358_makesound.txt
21517: 072_pas_fractals_performace_sharp.txt 359_charsetrules.TXT
21518: 072_pas_fractals_performance.txt 360_allobjects.TXT
21519: 072_pas_fractals_performance_mx4.txt 360_JvPaintFX.TXT
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21521: 074_pas_chartgenerator.txt   362_maxonmotor2.TXT
21522: 074_pas_chartgenerator_solution.txt 363_compress_services.txt
21523: 074_pas_chartgenerator_solution_back.txt 363_compress_services2.txt
21524: 074_pas_charts.txt          364_pdf_services.txt
21525: 075_bitmap_Artwork2.txt    365_memorystream.txt
21526: 075_pas_bitmappuzzle.txt   365_memorystream2.txt
21527: 075_pas_bitmappuzzle24.prod.txt 365_memorystream_test.txt
21528: 075_pas_bitmappuzzle2_prod.txt 365_U_HexView.txt
21529: 075_pas_bitmappuzzle3.txt   366_mp3player.txt
21530: 075_pas_bitmapsolve.txt    366_mp3player2.txt
21531: 075_pas_bitmap_Artwork.txt  366_mp3player2_themestest.txt
21532: 075_pas_puzzlespas_solution.txt 367_silvi_player_widgets.txt
21533: 076_pas_3dcube.txt         367_silvi_player_widgets2.txt
21534: 076_pas_circle.txt         367_widgets.txt

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21536: 078_pas_pi.txt	369_macro_demo.txt
21537: 079_pas_3dcube_animation.txt	370_callback2grid.TXT
21538: 079_pas_3dcube_animation4.txt	370_richedit.txt
21539: 079_pas_3dcube_plus.txt	370_richedit_highlight.txt
21540: 080_pas_hanoi.txt	370_synedit.txt
21541: 080_pas_hanoi2.txt	370_synedit2.txt
21542: 080_pas_hanoi2_file.txt	370_synedit2_mxtester.txt
21543: 080_pas_hanoi2_sol.txt	370_synedit2_mxtester2.txt
21544: 080_pas_hanoi2_tester.txt	371_maxbook_v4tester.txt
21545: 080_pas_hanoi2_tester_fast.txt	372_stackibz2_memoryalloc.TXT
21546: 080_pas_hanoi3.txt	372_synedit_export.txt
21547: 081_pas_chartist2.txt	373_batman.txt
21548: 082_pas_biorhythmus.txt	373_fractals_tvout.txt
21549: 082_pas_biorhythmus_solution.txt	374_realtime_random.txt
21550: 082_pas_biorhythmus_solution3.txt	374_realtime_random2.txt
21551: 082_pas_biorhythmus_test.txt	374_realtime_randomtest.txt
21552: 083_pas_GITARRE.txt	374_realtime_randomtest2.txt
21553: 083_pas_soundbox_tones.txt	375_G9_musicbox.txt
21554: 084_pas_waves.txt	376_collections_list.txt
21555: 085_mxsinus_logo.txt	377_simpleXML.txt
21556: 085_sinus_plot_waves.txt	377_smartXML.txt
21557: 086_pas_graph_arrow_heart.txt	377_smartXMLWorkshop.txt
21558: 087_bitmap_loader.txt	377_smartXMLWorkshop2.txt
21559: 087_pas_bitmap_solution.txt	378_queryperformance3.txt
21560: 087_pas_bitmap_solution2.txt	378_REST1.txt
21561: 087_pas_bitmap_subimage.txt	378_REST2.txt
21562: 087_pas_bitmap_test.txt	379_timefunc.txt
21563: 088_pas_soundbox2_mp3.txt	379_timefuncsterfilemon.txt
21564: 088_pas_soundbox_mp3.txt	380_coolfunc.txt
21565: 088_pas_sphere_2.txt	380_coolfunc2.txt
21566: 089_pas_gradient.txt	380_coolfunc_tester.txt
21567: 089_pas_maxland2.txt	381_bitcoin_simulation.txt
21568: 090_pas_sudoku4.txt	382_GRMath.TXT
21569: 090_pas_sudoku4_2.txt	382_GRMath_PI_Proof.TXT
21570: 091_pas_cube4.txt	382_GRMath_Riemann.TXT
21571: 092_pas_statistics4.txt	383_MDAC_DCOM.txt
21572: 093_variance.txt	384_TeamViewerID.TXT
21573: 093_variance_debug.txt	386_InternetRadio.TXT
21574: 094_pas_daysold.txt	387_fulltextfinder.txt
21575: 094_pas_stat_date.txt	387_fulltextfinder_cleancode.txt
21576: 095_pas_ki_simulation.txt	387_fulltextfinder_fast.txt
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21578: 096_pas_montyhall_problem.txt	388_TCPServerSock.TXT
21579: 097_lotto_proofofconcept.txt	388_TCPServerSock2.TXT
21580: 097_pas_lottocombinations_beat_plus.txt	388_TCPServerSockClient.TXT
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21582: 097_pas_lottocombinations_universal.txt	389_TAR_Archive_test.TXT
21583: 097_pas_lottosimulation.txt	389_TAR_Archive_test2.TXT
21584: 098_pas_chartgenerator_plus.txt	390_Callback3.TXT
21585: 099_pas_3D_show.txt	390_Callback3Rec.TXT
21586: 200_big_numbers.txt	390_CallbackClean.TXT
21587: 200_big_numbers2.txt	390_StringlistHTML.TXT
21588: 201_streamload_xml.txt	391_ToDo_List.TXT
21589: 202_systemcheck.txt	392_Barcde.TXT
21590: 203_webservice_simple_intftester.txt	392_Barcde2.TXT
21591: 204_webservice_simple.txt	392_Barcde23.TXT
21592: 205_future_value_service.txt	392_Barcde2scholz.TXT
21593: 206_DTD_string_functions.txt	392_Barcde3scholz.TXT
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21595: 208_crc32_hash.txt	393_QRCode2.TXT
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21598: 210_public_private_cryptosystem.txt	393_QRCode2Direct_detlef.TXT
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21603: 212_pas_statisticmoduletxt.TXT	395_USBController.TXT
21604: 212_statisticmodule4.txt	396_Sort.TXT
21605: 213_pas_BBP_Algo.txt	397_Hotlog.TXT
21606: 214_mxdocudemo.txt	397_Hotlog2.TXT
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21608: 214_mxdocudemo3.txt	399_form_templates.txt
21609: 215_hints_test.TXT	400_fplotchart.TXT
21610: 216_warnings_test.TXT	400_fplotchart2.TXT
21611: 217_pas_heartbeat.txt	400_fplotchart2teetest.TXT
21612: 218_biorhythmus_studio.txt	400_QRCodeMarket.TXT
21613: 219_cipherbox.txt	401_tfilerun.txt
21614: 219_crypt_source_comtest_solution.TXT	402_richedit2.txt
21615: 220_cipherbox_form.txt	403_outlookspy.txt
21616: 220_cipherbox_form2.txt	404_simplebrowser.txt
21617: 221_bcd_explain.txt	405_datedefinder_today.txt
21618: 222_memoform.txt	406_portscan.txt
21619: 223_directorybox.txt	407_indydemo.txt
21620: 224_dialogs.txt	408_testroboter.txt
21621: 225_sprite_animation.txt	409_excel_control.txt
21622: 226_ASCII_Grid2.TXT	410_keyboarddeevent.txt
21623: 227_animation.txt	411_json_test.txt

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21624: 227_animation2.txt
21625: 228_android_calendar.txt
21626: 229_android_game.txt
21627: 229_android_game_tester.txt
21628: 230_DataProvider.txt
21629: 230_DataSetProvider.txt
21630: 230_DataSetXMLBackupScholz.txt
21631: 231_DBGrid_access.txt
21632: 231_DBGrid_XMLaccess.txt
21633: 231_DBGrid_XMLaccess2.txt
21634: 231_DBGrid_XMLaccess_locatetester.txt
21635: 231_DBGrid_XML_CDS_local.txt
21636: 232_outline.txt
21637: 232_outline_2.txt
21638: 233_modular_form.txt
21639: 234_debugoutform.txt
21640: 235_fastform.TXT
21641: 236_componentpower.txt
21642: 236_componentpower_back.txt
21643: 237_pas_4forms.txt
21644: 238_lottogen_form.txt
21645: 239_pas_sierpinski.txt
21646: 239_pas_sierpinski2.txt
21647: 240_unitGlobal_tester.txt
21648: 241_db3_sql_tutorial.txt
21649: 241_db3_sql_tutorial2.txt
21650: 241_db3_sql_tutorial2fix.txt
21651: 241_db3_sql_tutorial3.txt
21652: 241_db3_sql_tutorial3connect.txt
21653: 241_db3_sql_tutorial3_fptest.txt
21654: 241_RTL_SET2.txt
21655: 241_RTL_SET2_tester.txt
21656: 242_Component_Control.txt
21657: 243_tutorial_loader.txt
21658: 244_script_loader_loop.txt
21659: 245_formapp2.txt
21660: 245_formapp2_tester.txt
21661: 245_formapp2_testerX.txt
21662: 246_httpapp.txt
21663: 247_datecalendar.txt
21664: 248_ASCII_Grid2_sorted.TXT
21665: 249_picture_grid.TXT
21666: 250_tipsandtricks2.txt
21667: 250_tipsandtricks3.txt
21668: 250_tipsandtricks3api.txt
21669: 250_tipsandtricks3_admin_elevation.txt
21670: 250_tipsandtricks3_tester.txt
21671: 250_tipsandtricks4_tester.txt
21672: 250_tipsandtricks4_tester2.txt
21673: 251_compare_noise_gauss.txt
21674: 251_whitenoise.txt
21675: 251_whitenoise2.txt
21676: 252_hilbert_turtle.txt
21677: 252_pas_hilbert.txt
21678: 253_operatingsystem3.txt
21679: 254_dynarrays.txt
21680: 255_einstein.txt
21681: 256_findconsts_of_EXE.txt
21682: 256_findfunctions2_of_EXE.txt
21683: 256_findfunctions2_of_EXEaverp.txt
21684: 256_findfunctions2_of_EXEspec.txt
21685: 256_findfunctions3.txt
21686: 256_findfunctions_of_EXE.txt
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21688: 258_AES_cryptobox.txt
21689: 258_AES_cryptobox2.txt
21690: 258_AES_cryptobox2_passdlg.txt
21691: 259_AES_crypt_directory.txt
21692: 260_sendmessage_2.TXT
21693: 260_sendmessage_beta.TXT
21694: 261_probability.txt
21695: 262_mxoutputdemo4.txt
21696: 263_async_sound.txt
21697: 264_vclutils.txt
21698: 264_VCL_utils2.txt
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21701: 266_serial_interface2.txt
21702: 266_serial_interface3.txt
21703: 267_ackermann_rec.txt
21704: 267_ackermann_variants.txt
21705: 268_DBGrid_tree.txt
21706: 269_record_grid.TXT
21707: 270_Jedi_FunctionPower.txt
21708: 270_Jedi_FunctionPowerTester.txt
21709: 271_closures_study.txt
21710: 271_closures_study_workingset2.txt
21711: 272_pas_function_show.txt
21712: 273_pas_function_show2.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
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423_game_of_life2.TXT
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423_game_of_life4.TXT
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433_video_avicap2.txt
434_GSM_module.TXT
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436_GraphicSplitter.txt
436_GraphicSplitter_form.txt
436_GraphicSplitter_form2.txt
436_teetest_screen.TXT
436_teetest_screen2.TXT
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437_WinAPItop_Firebirdtester.txt
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439_AsyncFreeDemo.txt
439_AsyncFreeDemoForm.txt
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444_webserver_arduino3ibz_rgb_led_basta.txt
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445_datagrid2.txt
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447_patternFrm_mx3.txt
448_Synapse.txt
448_Synapse2.txt
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450_Synapse_Mime.txt
450_Synapse_ScanPing.txt
451_ocx_player.txt
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452_dbtreeview2.txt
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454_fileStream.txt
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458_atomimageX.txt
459_cindyfunc.txt
459_cindyfunc2.txt
460_TopTenFunctions.txt
461_sqlform_calwin.txt
462_caesarcipher.txt
463_global_exception.txt
464_function_procedure.txt
464_function_procedure2.txt
464_function_procedure3.txt
465_U_HexView.txt
466_moon.txt
466_moon_inputquery.txt
4671_cardmagic.txt

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21713: 274_library_functions.txt          467_helmholtz_graphic.txt
21714: 275_turtle_language.txt            468_URLMon.txt
21715: 275_turtle_language_save.txt       468_URLMon2.txt
21716: 276_save_algo.txt                469_formarrow.txt
21717: 276_save_algo2.txt               469_formarrow_datepicker.txt
21718: 277_functionsfor39.txt          469_formarrow_datepicker_ibz_result.txt
21719: 278_DB_Dialogs.TXT              469_ibzresult.txt
21720: 279_hexer2.TXT                 470_DFFUtils_compiled.txt
21721: 279_hexer2macro.TXT             470_DFFUtils_ScrollingLED.txt
21722: 279_hexer2macroback.TXT         470_Oscilloscope.txt
21723: 280_UML_process.txt             470_Oscilloscope_code.txt
21724: 280_UML_process_knabe2.txt      471_cardmagic.txt
21725: 280_UML_process_knabe3.txt      471_cardmagic2.txt
21726: 280_UML_process_TIM_Botzenhardt.txt 472_allcards.TXT
21727: 280_UML_TIM_Seitz.txt           473_comboiset.txt
21728: 281_picturepuzzle.txt           474_wakeonlan.txt
21729: 281_picturepuzzle2.txt          474_wakeonlan2.txt
21730: 281_picturepuzzle3.txt          476_getscripttest.txt
21731: 281_picturepuzzle4.txt          477_filenameonly.txt
21732: 479_inputquery.txt              480_regex_pathfinder.txt
21733:
21734: Web Script Examples:
21735:
21736: http://www.softwareschule.ch/examples/performer.txt';
21737: http://www.softwareschule.ch/examples/turtle.txt';
21738: http://www.softwareschule.ch/examples/SQLExport.txt';
21739: http://www.softwareschule.ch/examples/Richter.txt';
21740: http://www.softwareschule.ch/examples/checker.txt';
21741: http://www.softwareschule.ch/examples/demoscript.txt';
21742: http://www.softwareschule.ch/examples/ibzresult.txt';
21743:
21744: ----- bigbitbox code_cleared_checked-----
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